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A content-based classification of Horror Movie Scenes using Fear Stages.

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In the film art form and film industry scene classification can be a powerful tool to compare and recreate works. "Genres" are a standardized classification of films by their general qualities that help when broadly analysing and classifying films, but lacks when trying to specifically analyse and compare films of the same genre. There is a need to create a standardized system that focuses on a smaller unit, "scenes", rather than in film as a whole in order to objectively compare films of the same genre.

In this paper we have focused our research on analysing the Genre of Horror. Firstly we conducted a research on emotions, how they are measured and researches that deal in film classification by emotions. We briefly discuss our findings related to the horror genre and the emotion of Fear. We also discuss how, in the Genre of Horror, specific audiovisual cues allows us to group scenes by their audiovisual qualities and how, by comparing their usage in different films, they can be used to spot similarities throughout the films.

We propose a "scene-by-scene", basic and objective system capable of identifying this cues and classify scenes in "Stages". This system is based on narrative concepts found in Horror literature and previous researches dealing with Fear identification and classification in media. We will use this system to analyze a group of Horror films, trying to determine similarities and differences in their usages of "Stages" in time. Lastly we will conduct an user group experiment utilizing films and physiological responses tests in order to determine how uses of stages have

We will test this system against film analysis for a selection horror films, determining how they vary in usage in time and then revise our system by comparing results against user physiological response tests. .

affect human emotion.

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# 第1章

# Introduction

Films as referred to motion pictures are produced by recording images of the world with cameras or by the creation of images using animation techniques. They can be part of the film art form and are considered cultural artifacts created by specific cultures, which reflect those cultures, and, in turn affect them. Films are considered to be an important art form, entertainment and a method for education [1]. Classification of films for similar qualities and evoked emotions have been standardized in what is called Film Genres [2]. Film Genres are of wide common knowledge and usage since they help give viewers a general idea of the type of film described; and filmmakers categorize their work by similarities. The understanding of film genres is appealing for both filmmakers and critics that try to improve their work using the analysis of existing films. [3]

Inside the genres of films exist the genre of Horror films. Horror films are categorized for their relation to fear, dread, surprise, panic, anxiety and alarm on viewers [4] [5]. This emotions have been found to initially cause distress among viewers, but ultimately they are believed to result in intense positive affective reactions [6]. Also, when discussing suspense, it has been proposed that gratification comes when a film impresses that the subject is very likely to experience suffering and when the film ultimately shows the protagonist escaping from danger [7]. It is perhaps this increase in arousal, from both the initial fear and the final escape, that makes viewing of films that evoke fear on the viewer desirable. It is also believed that interest is related to arousal, which has been found to be a better predictor of memory retention than valence, namely reactions of pleasure or displeasure [8]. This all add up to the reasons for viewer's interest and importance of the Horror genre in filming.

In order to evoke desirable levels of fear, and consequential arousal, Horror film-makers have a tendency to stick to specific sets of narrative and audiovisual tools. This tools, or "cues", are often emotion and scene-specific, resulting in strong differences

in the composition of each scene inside a horror film or work of literature[9] [10]. In fact this cues become so regularly used that the audience tends to become too trained to interpret low-level (background) symbols a certain way[11] [12]. A similarity is found when authors try to classify fear by this differences and there is a tendency to separate them in two groups; namely Terror (suspense, anxiety, anticipation) and Horror (startle, realization, danger) [9][13][14][10]. We will explore this concepts in deep in the chapter Stages of Fear (3).

Even though a standardized system to classify films as a whole by content exists, we are unaware of a research project that deals with content-based classification of Horror film scenes by comparison of Fear Stages.

The following sections will review the physio-psychological qualities of fear and its presence on filmmaking. Subsequently we propose a system of fear classification divided by "stages" and how it can be used to detect differences in scenes inside a horror film. This will be supported by a background research on similar projects found on the same section. Using this system we made a scene by scene analysis of a set of horror films. Lastly we conducted a test using Heart Rate monitors to identify physiological differences in relation to the proposed Stages of Fear.

# 第 2 章

# Analysis of Fear

"There is a class of qualities which is inherently linked to the motor system "
it is because of this inherent link to the motor system that this class of qualities can
be communicated. This class of qualities is referred to commonly as emotions. In each
mode, the emotional character is expressed by a specific subtle modulation of the motor
action involved which corresponds precisely to the demands of the sentic state."- Manfred
Clynes[15]

Emotions are part of our physical communication, the motor system acting as a carrier for communicating our sentic state. [15] This is why the understanding of the relation between physical motor communications and sentic state is crucial in the categorization of emotions. Plutchik[16] uses physiological outputs to understand motor system reactions and distinguished among eight basic emotions: fear, anger, sorrow, joy, disgust, acceptance, anticipation and surprise. Defining the qualities in physical reactions for each one.

In this section we will use this concept as a base to review the emotion of fear, its psychological and physiological qualities, as well as its appliance and measurement in horror films.

## 2.1 Psychology of Fear

In general fear is experienced when humans are threatened by something perceived to be more powerful than they are [17]. Some researchers claim that fear is an evolutionary necessity which can help notify a person whether they should proceed in their current direction, or find another course in order to increase likelihood of survival [18]. Freud explains it as an subconscious effort to avoid disturbing experiences; generating

aversive behavioural responses to stimuli perceived as threatening to an individual's physical and/or psychological well-being.[19].

Assuming fear is an evolutionary necessity it could be assumed that fear 's base qualities and measuring should have similar results throughout the majority of human beings. On the topic of fear and horror films, John Carpenter states that as a human race, people are all afraid of the same things: death, disfigurement, pain, loss of loved ones, etc. [20].

In trying to answer why fear induced films are appealing to audiences, it has been found that fear while being an emotion of negative valence in most cases, it is characterized by high arousal[10], which in turn has been found to be a better predictor of memory retention and related to Interest.[10]. This quality of arousal is essentially what "hooks us up" to a movie or scene, even when it clearly evokes negative emotions.

## 2.2 Physiology of Fear

Emotional processing, in general, consists of the subcortical system and cognitive appraisal.[21]. This connects to the autonomic nervous system(ANS), which in turn commands several physiological responses such as heart rate, respiration, pupil dilation and blood flow[22]. Because of this connection to the sentic state, physiological measuring is often used to predict emotional state on human beings[23]. They have also been used as indicators of mental effort and stress.[24]. This qualities make them valuable assets when trying to understand how much films affect viewers.

Fear, being an emotion, follows the above discussed qualities. Fear stimuli in specific is related to electrophysiological correlates, the amygdala, and other forebrain areas[20]. Fear is also characterized by the release of adrenaline and cortisol which increase blood pressure and the metabolic rate needed to react appropriately to survive. Cortisol is the primary glucocorticoid of the hypothalamic-pituitary-adrenal axis and is implemented in the fear process.[25].

When measuring Fear in general we find that the physiological inputs used to predict and dictate levels of fear reaction include face temperature, blood pressure (including heart rate and heart rate variability), galvanic skin conductance, muscle potential and respiration rate[26][27][28]. We assume then that any or all of this physiological inputs are regular and generalized enough to be used in the further understanding of fear stimuli.

We also find fear reactions vary depending on the type of threat [10] and measure in accordance becomes necessary. "A climate of fear" [10] explores the concept that fear process starts with threat assessment and that depending of the type of threat (terror or horror) the resulting motor system responses change into either temporal anticipation for terror or immediate defensive action for horror. This sets the stage for two different types of fear, one that is indirect and towards the environment, and another that is a response to an ongoing or unavoidable threat.

#### 2.3 Fear in Films

"A film is simply a series of emotions strung together with a plot... though flippant, this thought is not far from the truth. It is the filmmaker:s job to create moods in such a realistic manner that the audience will experience those same emotions enacted on the screen, and thus feel part of the experience." - Ian Maitland.

Studies confirm that films are a viable way of inducing emotion in viewers, thus "hooking them" to the plot[29]. This concepts connect the dots between the experiments with the physiology of emotional stimuli and film making. Any advance in the understanding of emotions can be quickly translated as a tool for film making, for film making is basicly the expression of emotions with narrative using a visual output of image frames that change in a timeline, with the exception of educational and documentary filming whose goal is to communicate information.

Just as Carpenter globalizes fear emotion, Dr. Arijon explains that "all the rules of film grammar have been on the screen for a long time. They are used by filmmakers as far apart geographically and in style as Kurosawa in Japan, Berman in Sweden, Fellini in Italy and Ray in India. For them, and countless others this common set of rules is used to solve specific problems presented by the visual narration of a story" [30].

From this we conclude that the understanding of filming is deeply related to the understanding of emotions and thus the understanding of the fear stimuli is arguably appealing to horror filmmakers. As well that any such understanding could be applicable to a world-wide population with similar results to a certain degree.

On the other hand, anyone studying fear films should be aware of its varying effects on individuals depending on their level of affect to particular objects, settings or events that are depicted[31]. They should also be aware that levels of fright response vary depending on gender[31][7].

## 2.4 Measuring Fear in films

In this section we will review a number of researches that deal with threat assessment and response to fear stimuli in films specifically in order to establish ground rules for our own analysis system. A research on responds to photographic material was able to confirm that phobic pictures elicit stronger reactions than neutral stimuli [32]. It can be assumed then that strong reaction towards pictures and, by relationship, films that a viewer experiences could be interpreted as the viewer making a mental relationship with the picture and his own fears.

In addition, it has been found that fear or threat films can produce consistent sympathetic responses of cardiac acceleration, decreased TWA and increased SCL. In contrast, repulsive films involving surgery and blood however can increase TWA and SCL raises even higher than in the "threat" films [33].

Trying to analyze the best range of age for a study group we found that studies in scary movies show that college students represent an important subject population to investigate because many of them attend scary movies frequently and are often a target audience of film producers[31]. Also, it has been proposed that teenagers like horror for the idea of violence and destruction [7]. In similarity, it has been found that the motivation for viewing horror films in adolescents can be understood in four points:gore watching, thrill watching, independent watching and problem watching[34].

It has been also found that strong reactions and memory imprint can occur at a much more early age. Cantor (2004) found people having present continuous effects based on the films they watched as kids. He also tested groups of children and found that 76% responded saying that they had experienced fear due to a form of media[35].

In films systolic blood pressure (SBP) and heart rate (HR) are often consider reliable physiological reactions for measuring range of emotions related to anxiety and fear. SBP and HR has been found to increase in reaction to violent filming [36] fear, anger, sex[20], horror film [37], stimulated phobia [20] and fear-inducing TV programs [38]. Other physiological reactions tested against similar films included diastolic blood pressure, electromyography, skin conductance response and skin conductance level. [20]

# 第3章

# Stages of Fear

"Stages of Fear" can be defined as a system that analysis scenes found in horror films and tries to categorize this scenes by the range of emotions felt by viewers in "stages". This system includes rules to identify and compare the usage of "stages" in different films. This system has been created with the idea that it could become a reliable, objective and specific tool for critics and filmmakers, allowing them to compare different films by their "stage" qualities.

In this chapter we wish to explain the concept of "Stages of Fear", first by reviewing researches and concepts that are directly related to this and secondly by defining the system in depth.

# 3.1 Stages of Fear in narrative and filming

In Danse Macabre [9] Stephen King gives us three ways, namely terror, horror and repulsion, to utilize as narrative tools in order to affect an audience. Our analysis of Kings definitions is that terror is categorized by the lack of an clear object of fear, understood also as suspense, and as a general sense of dread in the ambient. Horror is categorized as having a clear object in which dread is focused and as having an imminent quality. Repulsion is almost self-explanatory by its name. It is a feeling of disgust, absolute negative valence, towards gore, the realistic depiction of serious physical injuries. It includes the fear of the freakish qualities of an strange, immoral or unreal event.

Repulsion is perhaps the most detached of the three to the qualities of Fear, and its why King considers it the less-noble, less effective of the three. Plutchik categorizes Fear and Disgust as two different emotions, by which we could conclude that it (repulsion) belongs to a quite different spectrum of qualities in comparison to Terror and Horror.

Similarities to this concepts can be found applied to narrative in "The psychology of suspense in dramatic exposition" [13] where Zillmann identifies fear as a major component of suspense and its relation to anticipation of negative plot resolutions. This could be understood as Terror as explained by King. In "When good things go bad" [14] the concept of abruptness being the key to horror sets the time border between the stages of terror and horror as one abrupt occurrence. Also Varma [39] distinguishes terror as an awful apprehension and horror as sickening realization, in accordance to the classification given to us by King.

Philip Van Doren Stern proposes a similar classification when defining Horror as similar yet not identical to Fear. He defines Horror as of long duration and necessarily climactic quality in effect. He claims that nothing substantial can be truly horrible, and that horror can only be found within ourselves, rooted in our imagination. We could conclude that the qualities of Van Doren Stern 's Horror are similar to those of King 's Terror in that which both are essentially dragged out suspense which lack of substantiality or a direct object of fear[40].

In a "A climate of fear" we find a summarization that is deeply related to this concepts. They claim that "Horror is a revelatory event, incurring deep upset manifest as over human behavior, and terror as the anticipatory trepidation. Terror is evasive, action-oriented and situational whilst horror encourages fixation and object-focused. The core element of Horror (surprise, shock) is startle, categorized by abruptness and instantaneousness. Terror (anxiety, suspense) by comparison is not limited to intensity, but rather related to a long-term state of distress incited by more general, implicit cues." [10]

We will try to simplify and summarize the definitions reviewed in this subsection and classify them in three. We use this as a base to define the "Stages of Fear" in the subsection Definition of Stages (cite) and explain how they apply to our system. For their opposing names, yet similar definition, in some cases We have analyzed and grouped them more in spirit than in name.

- Terror: Suspense, anxiety. Evasive or unfocused. Cued by ambient or unsubstantial situations, results in anticipation, apprehension and general dread. Characteristically of long duration. In narrative is often climatic.
- Horror: Surprise, shock, climax. Focused on an object of fear. Cued by startle, sickening realisation. Characterized by revelation, imminency, intensity and fixation.
- Repulsion: Gore, shock. Focused on an object of disgust. Forced upon. Cued by the presence of serious physical injuries, abnormal qualities or hyper-immoral events. Results in negative valence. Is the fear for the strange and its level effective.

tiveness is unrelated to duration.

## 3.2 Stages in researches and projects

There has been researches that classify trailers automatically using audio visual qualities and running them to audiovisual analysis software. They manage to classify film 's trailers in genre determining visual qualities like key lighting and rhythm, and audio qualities like pitch. While their research is successful for classifying trailers and the concept of audiovisual rhythm proved to be a very successful way to determine genre, the system seems to depend a lot on averaged qualities, runs into wall when dealing with conversational cues and is found inadequate to classify specific scenes in a film[30].

In "Neural organization of the defensive behavior system responsible for fear" [41] Michael Fanselow uses Timberlake's summary of rats and their three stages of defensive behavior resulting from fear stimuli to improve understanding of fear on humans. The stages are respectively:

- Pre-encounter: Subject enters area having predatory potential. Behaviors: environment recognition, protection, maintenance.
- Post-encounter: Subject detects predator presence in environment. Physiological: amygdala, ventral periaqueductal gray. Behavior: freezing, analgesia, anxiety.
- Circa-Strike: Subject contact with predator is occurring or inevitable. Physiological: dorsolateral periaqueductal gray, superior colliculus. Behavior: defensive fighting, escape, threat displays.

Garner and Grimshaw utilise this stage summary to create and virtual acoustic ecology of fear [10] for a gaming platform, relating them to Caution, Terror and Horror respectively for their similarities in concept. This research in particular gave us a base to create our audiovisual analysis system, we use concepts found in this acoustic ecology in gaming and try to apply them in a audiovisual classification system for films. Also on the same research a graph is shown for the differences in what is safe, caution, terror and horror.

On Affective Computing [8] the possible positive effects of improving computer's ability to understand emotions in discussed. It sets the base for the next step in emotional stimuli research, proposing that we use our understanding on emotions in order to to create AI capable of understanding us. They also explain how interest is related to arousal(excited/calm), one of the key dimensions of affect and that it has been found to be a better predictor of memory retention than valence (pleasure/displeasure).

This concepts also work as a base for our own system and helps make a distinction between high arousal terror/anxiety and low valence repulsion/gor. We consider that understanding how arousal/valence affects physiological inputs can help determine when users experience different emotions.

Another research that deals with valence/arousal is "Affective ranking of movie scenes using physiological signals and content analysis" [42] in which they rank movie scenes in genre according to physiological inputs in accordance to valence (positive/negative emotion) and arousal (stress/relax) and video analysis. We wish to utilize his findings for the Horror genre, specially they categorization of horror in the gamma of "high arousal and variable valence." They also have a vast definition on the virtual characteristics of different genres of film. Their discussion includes loudness of speech and how is related to evoked arousal, lighting key and color variance as important parameters to evoke emotions and how video rhythm and shadows relate to affect. This are all qualities that they manage to analyze digitally, and hence objectively, so we which to use them to base our rule set of cues to categorize differences in anxiety, startle, repulsion and neutrality towards film movies.

## 3.3 Creating a system for scene classification.

In the following subsections we will define each of the stages proposed as a system to classify scenes. Each stage contains specific audiovisual cues that should allow users to clearly identify them in a horror film 's scene. For further clarity, each cue are also thoughtfully.

In order to built this system we first created a set of sketch stages from the definitions found in the background researches we reviewed in subsections Stages in narrative and filming 3.1 and Stages in research projects 3.2. We then used this sketch stages to analyse a selection from "KingStefu's "Scariest Movies Of All Time!" found in IMDb' website [43]. This list has many references in common with other lists found online [44] [45]. Lastly we progressively used feedback from this analysis and common sense to fine-tune the definitions further.

The final outcome of this analysis resulted in 5 stages that represent the core of oursystem. They are namely: TERROR, HORROR, REPULSION, RECOVERY and BACKGROUND. We will define them in deep in the following subsection.

The first three (TERROR, HORROR and REPULSION) are directly based on the concepts reviewed in past subsections (3.1 and 3.2). The last two stages RECOVERY and BACKGROUND were stages that we deemed necessary when analysing movies for the lack of cues to identify them in the other two stages and very specific characteristics. To quickly explain the differences:

- RECOVERY is similar to the concept of "safe stage" found in A climate of Fear. [10]. It is basically an abrupt change in situation that lets understand the subject that it is no longer in danger.
- BACKGROUND stage are stages that lack fear in audiovisual cues and are used to pull forward the narrative in a movie.

As a general rule, all stages start from the moment audiovisual changes which can be specifically related a single stage 's cues take place inside a scene. Not all cues are found in every stage, and some cues might overlap. As a rule of thumb any differentiation of stages should indicate at least two individual non overlapped cues belonging to the stage, preferably one (or more) visual and one (or more) acoustic. Furthermore this cues should be in surplus to cues belonging to other stages in other to classify a given scene.

Example of this rules in action: When analysing the movie The Exorcist there was a scene with a small amount of cues for the Terror Stage (danger zone), also certain amount of visual cues belonging to the Repulsion Stage (turning faces, puke, swearing), finally we also found even more cues belonging to the Horror stage (danger zone, screams, struggle, fast rhythm, startle, contact). The visual "danger zone" cue overlaps for both Horror and Terror, but a fair amount of non overlapped of both audio and visual cues was found for the "Horror Stage". Furthermore, there was more cues for "Horror Stage" than the "Repulsion Stage" which resulted in the final classification of the scene as belonging to the "Horror Stage".

Lastly we will like to clarify that stages and cues are focused on the effect in the viewer, rather than the characters inside the film. Meaning that as soon as the viewer is aware of a cue inside the scene it becomes a viable cue to classify said scene even if the characters inside the film seems unaware of the danger. This doesn't works reversely, since when viewers notice that characters inside the movie show signs that they have noticed danger (facial expressions, voice variations) this automatically becomes a cue, even if the danger is not directly shown to the viewers.

# 3.4 Definition of Stages

#### 3.4.1 Terror Stage

Terror stage is what we call suspense in literature and filming. The main emotion that is evoked in the viewer is anxiety and anticipation. Often this emotions are also found in the characters inside the film and work as cues to identify it. The state of the viewer throughout Terror Stage should be evasive, of high anticipation and of hyperawareness towards the environment.

Terror stage is characterized by the fact that the fear is not focused on any object in specific but rather is a general dread and apprehension towards the ambient or situation. It is also characteristically of long duration, often climatic quality and a slow yet rising audiovisual rhythm. Terror stage in most cases, but not necessarily, ends when horror starts as it is often the climax of a rising suspense. All cues from terror stage are characterized by the fact the they cause anxiety (fear) by the possibility of danger.

The details are as follows:

Keywords: suspense, anticipation, anxiety, ambient, general dread, apprehension Visual cues:

- Obstruction: Is the lack of clarity do to visual interruptions. This causes a sense of heightened senses and increased anxiety on the subject as the ambient becomes hard to read. (e.g. flickering lights, fog, noise, smoke, water, shadows, dark night).
- Indirect Presence: Is the unclear indication of predator presence without directly showing the predator on screen. (e.g. shadow passes by, killer weapon on the floor). Or it is the presence of a predator in screen that has been temporarily removed of any danger potential. (e.g. the killer is tied down in the room)
- Danger zone: Is a change in environment, that indicates possible danger to the characters but that doesn't directly hurts them by itself. (e.g. enter dream-mode, girl goes out to the dark patio).
- Slow Rhythm: Is a editing technique which uses a long duration for each shot extending the feeling of dread.
- Preestablished Danger: Is a cue that individual to the film in question that has made an appearance in the past and proven to result in danger. When this this cue reappears in the film the viewer anticipates a negative outcome and his anxiety increases. (e.g. whenever we understand they are dreaming in "Nightmare on Elm Street", whenever they go into back into room with the girl in "The Exorcist", whenever you hear the tune Jeepers Creepers in the movie by the same name).
- Surreal effects(anxiety): Unnerving yet not startling visual effects. (e.g. flashes of red, shrinking of visual scope, ).

#### Audio cues:

- Rising rhythm: this is characteristic slowly rising music or effects that is meant to rise anxiety in the viewer. (e.g. suspense music).
- Indirect presence: As in visual cues, but identifiable by sounds. (e.g steps in cellar, thud sounds from the next room).

- Abnormal effects(anxiety): Unnerving yet not startling surreal sounds. (e.g. white noise, whispers, sound effects). Also the abrupt drop of volume, pitch or frequency in the background music or ambient sounds. The abnormality of this event rises anxiety.
- Conversational(anxiety): Conversation that cues audience of the possibility of danger in the imminent future. (the classic "lets go check that out")

Examples: - She heard steps on the patio outside. "Let's go check it out." In Elm Street: When nancy walks in the room it starts snowing inside, proving she's actually dreaming. (Environment change) In Paranormal Activity: Clock stops, sound changes abruptly into a subwoofer/low bass/noise sound. (unnerving Sound cue) In Scream: "I would like to know who I am seeing right now." (sounds/conversation that indicate presence of predator).

#### 3.4.2 Horror Stage

Horror stage is a mixture of the fear experienced in terror pumped up with the suddenness and fast pace of action. The main emotions evoked in the viewer are startle and imminency. Often delivered as a climax point to the Terror stage, the state of the viewer tends to be of self-defense, flight or fight stance and/or shock.

As opposed to the Terror stage, Horror is focused on an specific object which shows imminent, unavoidable or ongoing capability to exert pain on the characters in the movie. Characteristically fast-paced and of short duration, its audiovisual cues are mostly startling, sudden and of high energy.

The details are as follows:

Keywords: abruptness, startle, surprise, shock, imminent danger, focused object of fear,

Visual cues:

- Direct Presence: Is the clear indication of predator presence on screen without any restrain and with full capability. (e.g. killer shows up, alien face close-up, tied up monster breaks loose).
- Startle: A sudden change in the visual outputs of the film meant to generate reflexive shock or alarm on the viewers. This is often done with obstruction (low-brightness lighting or extreme close-ups) to augment the feeling of "unknown danger", thus increasing shock. (e.g. door blasts open, killer face reflected on the mirror, monster jumps forward from the shadows)

- Contact: Physical contact between a direct object of fear and a character in the
  movie meant to evoke a feeling of imminent or ongoing danger on viewers. Included
  are touch, grabbing, struggle, striking, punching, stabbing, biting, kicking and
  others.
- Fast Rhythm: Is a editing technique which uses a short duration for each shot generating a sensation of excitement and rush.
- Danger zone: As Terror Stage, a change in environment, that indicates possible danger to the characters but that doesn't directly hurts them by itself. (e.g. enter dream-mode, girl goes out to the dark patio).

#### Audio cues:

- Fast rhythm: this is characteristic fast paced music or effects that are meant to generate excitement in the viewer. (e.g. action music).
- Indirect presence: As in visual cues, but identifiable by sounds. (e.g steps in cellar, thud sounds from the next room).
- Abnormal effects(anxiety): Unnerving yet not startling surreal sounds. (e.g. white noise, whispers, sound effects). Also the abrupt drop of volume, pitch or frequency in the background music or ambient sounds. The abnormality of this event rises anxiety.
- Conversational(anxiety): Conversation that cues audience of the possibility of danger in the imminent future. (the classic "lets go check that out")

Notes: As all stages Horror stages end on cue when cues for other stages surpases that of horror but this is problematic for a horror stage that often has terror qualities in it. Assume that a horror stage continues as long visual cues for other stage are overwhelming. This is often in the form of a "Recovery Stage".

Examples: "Here is johnny" In Elm Street: Any scene where freddy krueger in shown on screen. In PA: the girl is dragged out of the bed and she starts screaming. In Scream: chair shoots through the window.

#### 3.4.3 Repulsion Stage

Repulsion is repugnance or aversions to abnormal acts or objects regardless of rhythm and unrelated to fear. The main emotions evoked in the viewer are disgust and detachment. Often used to slow the rhythm of a movie while still causing emotional shock on viewers. Repulsion is different to Horror and Terror as it can be focused both on an specific object, towards the ambient and also towards a situation. With an undefined pace, its audiovisual cues are mostly gruesome, aversive and disruptive.

The details are as follows:

Keywords: gore, disgust, entrails, physical pain

Visual cues:

- Repulsion(Physical): Includes disgust towards physical pain(e.g. torture, gutting) or related to physically repulsive acts (putrid, fecal, vomiting). It also relates to abnormal/disturbing states of the physical body (e.g. deformity) or derivatives (e.g. vomit, blood, sweat, fat, gas, mucus). Or related to repulsion toward possible contamination (e.g. dirtiness, disease).
- Repulsion(Social): Includes socially unacceptable behavior ranging in monstrosity or absurdity (unnatural movements, rape, insanity, extreme disregard of manners, moral or laws).
- Repulsion(Psychological): Comes to mind when a character is in a psychologically stressful situation to which we find aversive. Often forced upon by an object of repulsion or fear. (e.g. being trapped in the dark, forced to walk naked, forced to eat feces, trapped in a fire)
- Rhythm(slow/fast): The repulsion has no specific rhythm but tends to slow rhythm.

Audio cues:

- Repulsion(Physical): same as visual cue but expressed by sounds (sounds of pain/gutting, sounds of vomiting, etc)
- Repulsion(Social): same as visual cue but expressed by sounds. (e.g. conversations of preference for extreme anarchy, disregard for morals or disregard for human life.)
- Repulsion(Psychological): same as visual but expressed by sounds (e.g. screaming about being trapped, forced to do unwanted acts)
- Rhythm(slow/fast): As in visual cue, unspecific but with a tendency to slow rhythm.

Examples: "Any zombie movie ever created!" In Jeepers Creepers: The scene where the cathedral made of corpses is shown. In SAW: Lots of scenes... cutting your own limbs for example. In 300: When ephialtes walks into the persian camp and sees the mutilated/deformed creatures inside.

#### 3.4.4 Recovery Stage

Recovery is a general sense that thread has been dealt with or avoided for the time being. The main emotions evoked in the viewer are certain safety or realization. Often used to slow the rhythm of a movie after big shocks, or to create a false sense of safety before a mayor shocking event to generate even more reaction in viewers.

Recovery is focused on a situational change and occurs when big portions of the cues of TERROR, HORROR and, on less cases, REPULSION disappear suddenly. Characterized by a sudden drop in either audio or visual rhythm. The difference with BACK-GROUND is that the location and/or time frame for previous stages stays the same yet ambiental, situational or presence changes make it "safetier", eliminating the emotion of fear in the scene.

The details are as follows:

Keywords: relaxation, realization, safety,

Visual cues:

- Safety Zone: Happens when characters are located in an location that does not give them any sense of danger (e.g. inside the house, park). Difference with BACKGROUND visual cue is that this cue is rather a sudden change in ambient rather than slow introduction to it. (e.g. morning comes, lights turn on)
- Presence(Others): Presence of character(s) that posses the ability to destroy or avoid a source of fear come into scene, giving a sense of safety to the viewers. (e.g. brother, lover, parent, groups of people). Refers to the feeling of "safety in groups".
- Rhythm(slow): As the TERROR visual cue, but characterized by its sudden drop rather than steady rise.
- Realization: An event or situation that shines new light on a problem presented. Often in the form of a source of fear being destroyed/avoided or proven to be not dangerous in the end. (e.g. masked men proved to be a relative doing a prank, the monster falls to pieces as it is stabbed, the bomb timer stops)

Audio cues:

- Rhythm(slow): As visual but with tranquil sounds or music that generate a feeling of safety.
- Conversational(Realization): As in Realization cue in visual, but activated by a conversation. (e.g. "it's just me! don't shoot!", "everything is going to be ok now")

• ambient(safety): As in visual cue Safety Zone, but related to sounds. (e.g. birds singing, sounds of kids playing, sounds of ocean 's waves)

#### 3.4.5 Background Stage

Background is composed by fear/disgust unrelated shots that lack the audiovisual cues of all the other stages. The main emotion is safety, but also includes any emotion not related to fear, disgust or anxiety (happiness, sadness, relaxation …). This stage is often conversational and are used to push forward the narrative in a film. They tend to either be slow in rhythm or have a subtle rising narrative suspense as the film progresses, but this stage will always lack any indication of indirect or direct danger to the characters.

The details are as follows:

Keywords: background, story, scenery, safety, conversational

Visual cues:

- Pre-established Safety: A location or situation that is specific for the film that has proven to generate safety. (e.g. carrying the amulet that allows monsters to stay away, monsters only come out at night)
- Safety Zone: As in Recovery visual cue, but not necessarily coming out of a sudden change.
- Presence(Others): As in Recovery visual cue.
- Rhythm(slow): As in Terror and Recovery visual cue.

Audio cues:

- Conversational(Safety): As in Safety Zone cue but cued by conversation. Also emcompases any conversation that is "normal" (fear unrelated) and causes a sense of security.
- Ambient(Safety): As in Recovery cue.
- Rhythm(Slow): As in Recovery cue. relaxed conversations (establishment of narrative, lack of stress) unstressed BGM (positive valence(happy) non-suspense music) sounds that indicate safety (morning sounds, etc).

# 第4章

# Scene-by-Scene analysis of Horror films

In this chapter we demonstrate how scene-by-scene stage analysis of films proceeded and show the results found in our analysis. This analysis is focused on content by audiovisual characteristics and in similarities of Fear Stages usage for different horror films.

## 4.1 Analysis System

The movies were selected from the list of films pre-analysed and discussed in the chapter Stages of Fears. 9 films in total were analysed, they were considered for their availability and averaged ranking on the online lists. The complete list is as follows: "Alien" (1979), "Dawn of the Dead" (1978), "Halloween" (1978), "Jaws 4: The Revenge (1987), "A Nightmare on Elm Street" (1984), "Paranormal Activity" (2007), "Psycho" (1960), "Scream" (1996) and "The Exorcist" (1973).

Two computers were used for the analysis, one for playback of the film and another for data logging. The operator would play, stop, rewind and forward the movie on convenience on the first and log data of found cues on the later.

For the analysis spreadsheets were used store data and an online live formulary was created for each film in order to record every stage in the film 's time frame. Each film was analysed scene by scene, found audiovisual cues were logged and the corresponding stage was determined by the type of cues found. Also the scene 's start time, end time, a description of the scene and the specific cue or cues that ended the stage were also logged. An example of the spreadsheet types used and an snapshot of the live form can

be found next A.1A.2. The spreadsheets with the stage analysis data for all the films can be found attached to this research paper at the end.

## 4.2 Content Analysis Results

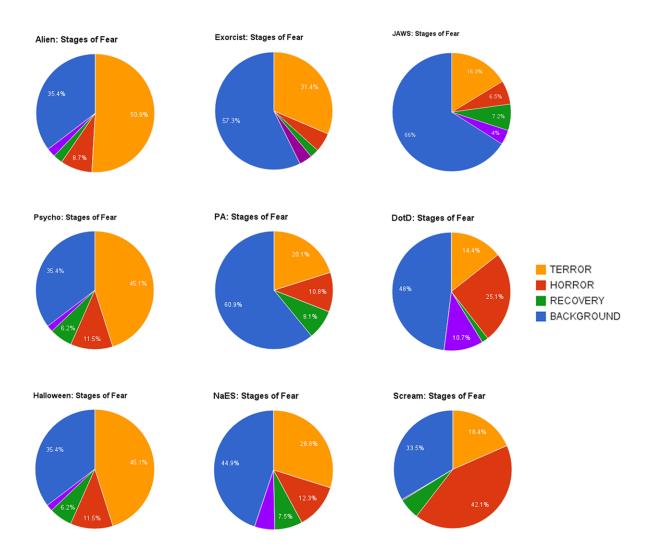
Using the data found from the scene analysis we created a series of flowcharts to compare the differences in stage proportions for each film. The first series is composed of pie charts that express raw percentage of stages for each film 4.3 4.4. The second series is composed of bar chart that expresses different uses of stages in time (x axis) (4.5, 4.6). For each serie, films are compared first by ranking in the lists discusses in the chapter Stages of Fear, second by their gross box office taken from and and lastly by result similarities. Gross box office are done with total box office gross worldwide and domestic gross standardized by inflation in relationship to ticket [46][47]. Ranking are done by averaging the ranking lists found in [47][43][44][45]. Result similarities refers to comparison of graph and pie data results between each movie. We found that the highest ranking movies "Alien", "The Exorcist" and "Psycho" were also the highest grossing after applying inflation.

#### 4.2.1 Comparison by percentage of stages in each film.

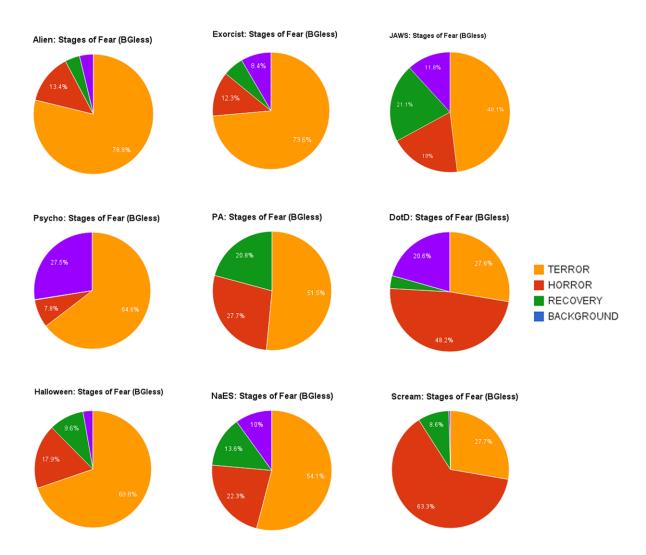
In here we compare results by sheer stage percentage in each film 4.3. Also a comparison of stages excluding the BACKGROUND stage is shown 4.4. Such comparison was deemed necessary due to this research's focus on the analysis of films by their audiovisual qualities rather than by their narrative quality.

表 4.1: Title

	24 1.11. 110	
Title	Release Year	Director
Alien	1979	Ridley Scott
Dawn of the Dead	1978	Zack Snyder
Halloween	1978	John Carpenter
Jaws 4: The Revenge	1987	Joseph Sargentl
A Nightmare on Elm Street	1984	Wes Craven, Sean S. Cunningham:
Paranormal Activity	2007	Oren Peli
Psycho	1960	Alfred Hitchcock
Scream	1996	Wes Craven
The Exorcist	1973	William Friedkin
Scream	1996	Wes Craver



 $\boxtimes 4.3 :$  Total RAW percentage of Stage in each film.



☑ 4.4: Total percentage of Stage in each film without BACKGROUND stage..

When including the BACKGROUND stage, we find that two of the higher ranking and higher grossing films "Alien" and "Psycho" show the highest percentage of TERROR stage, the other high rank film, "The Exorcist", is also high in TERROR stage percentage ranking 4th in comparison to the movies we analyzed. On our analysis of data without BACKGROUND stage we find that the three highest ranking show are the three films with the most TERROR stage by large (more than 10% for the closest, and more than 50% compared to the lowest). This indicate that successful use of TERROR stage (as opposed to HORROR and REPULSION) could be related to the successfulness of a film.

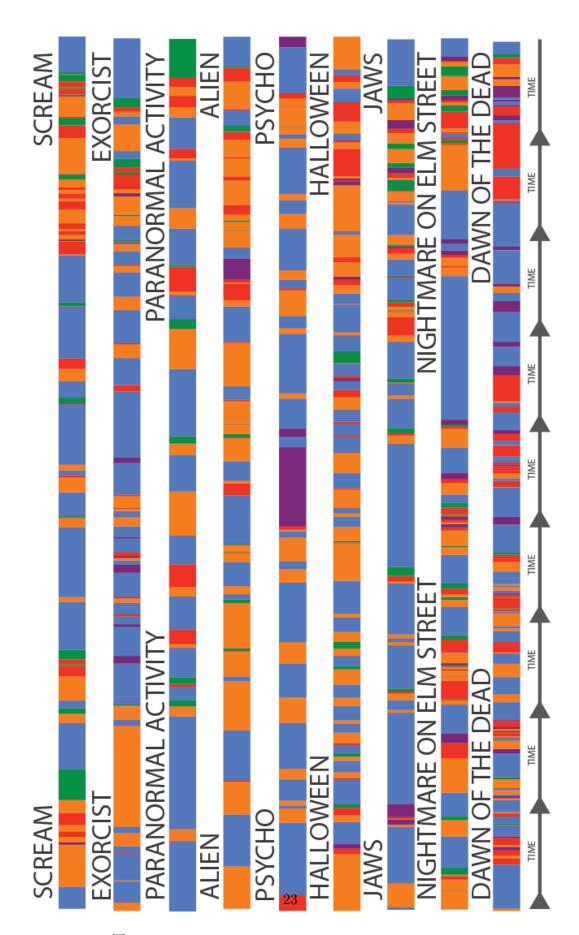
In contrast, films the three films of lower grossing and ranking (A nightmare on Elm's treet, "Jaws 4" and "Dawn of the Dead") we find a bit less clear results. Rela-

tive high levels of HORROR were found for "Dawn of the Dead" (ranked first) and "A Nightmare on Elm Street" (ranked 3th), but "Jaws 4" ranks very low for HORROR. We also find that the lower grossing movies were also the ones with highest rankings in Repulsion. Without considering the BACKGROUND stage there was a similitude in percentage of TERROR stage (all around 50%), but are removed from the highest ranks in REPULSION by "Psycho".

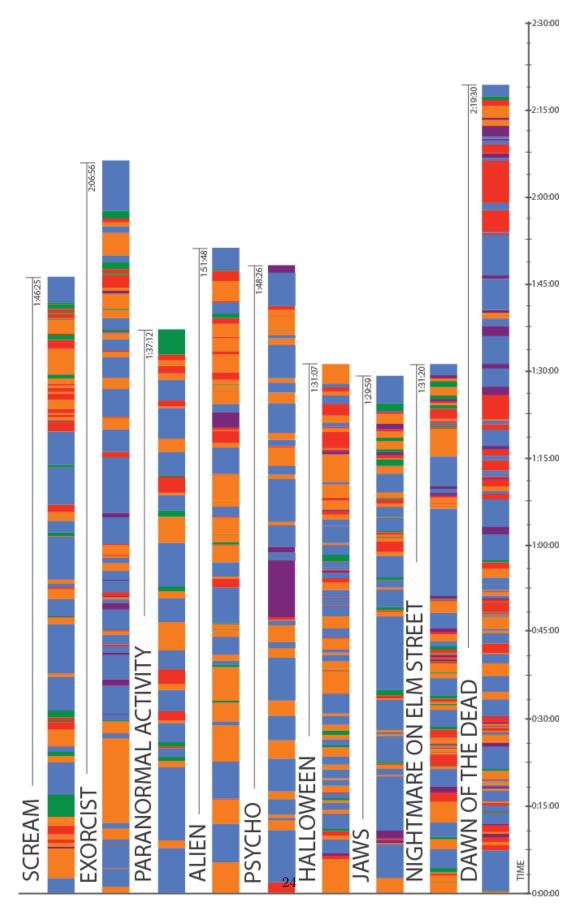
After analysing both higher and lower ranking and grossing films could be said that the high usage of TERROR is related to success, and high usage of REPULSION and HORROR are related to relative lack of successfulness, nevertheless the research is considered very simplistic and general, for better and more reliable results comparison with even lower ranking films and deeper analysis of the industry is required.

#### 4.2.2 Comparison by stage usage in time for each film.

In here we compare results of the usage of stages in time for each film. We show our results using bars of different color and longitude placed in x-axis that represents times 4.5. Colors are used for the stages each bar represent and longitude for the time duration of each stage. Results are shown first with normalized scales for each film 4.5 and later time scaled for the different durations of each film 4.6. The first was used in order to compare all films in a common ground, the second was used to compare differences in stage usage depending on the film duration. High ranking and grossing films were taken from the same standards as the usage of percentage on the subsection before 4.2.1.



☑ 4.5: Usage of Stages in time axis. Normalized results.



☑ 4.6: Usage of Stages in time axis. Time scaled results.

For normalized bars (no time relationship) we find that, for the exception of "Dawn of the Dead" and "A Nightmare on Elm Street", the heaviest concentrations of HORROR and the noisiest parts (small stages with fast changes) happen towards the end of the movie. "Dawn of the Dead" and "A Nightmare on Elm Street" are both packed with HORROR from the beginning, "A Nightmare on Elm Street" showing a concentration towards the middle. Apart from "Psycho", all films ended with a relatively long BACK-GROUND or RECOVERY scene. "Psycho" does has a long BACKGROUND scene in the end, but jumps into the REPULSION towards the end.

High ranking films "Psycho" and "The Exorcist" seem to have portions of RE-PULSION close to their middle points and so does low ranking "A Nightmare on Elm Street". "The Exorcist", "Paranormal Activity", "Alien" and "Psycho" are similar in the fact that they have slow rhythm beginnings, with long BACKGROUND and TER-ROR scenes.

Scream and "A Nightmare on Elm Street" (Slasher movies) and "Dawn of the Dead" (zombie) seem to have quick bursts of HORROR from the beginning. Also there seems to be a similarity in the usage of TERROR for Scream and the "The Exorcist", packing terror and the beginning and ends of the movie, and using BACKGROUND breaks in the middle.

The only strong similarity we can find related to ranking is that lower ranking movies tend to be more noisy (short duration stages spread out in time) and tendency to the use of HORROR from the beginning. Highest and medium rank movies vary in this aspects. All movies share in common concentrations of HORROR and RECOVERY towards the end, and the majority of them end with BACKGROUND. We consider that the subgenre of this movies vary too much for reliable results, and further analysis by sub-genre (e.g. "Slasher", "Supernatural", "Zombie", etc) or a comparison of movies by date of production could yield more interesting similarities between movies.

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0.29:05 0.30:34 graveyard BG Rhythm (Slow), Presence (Others) 0.30:34 0.31:00 grave open TER (Others), Realization, Repulsion (Social) 0.31:00 0.34:25 smokin pot BG Safety Zone, Rhythm (Slow), Presence (Others) 0.38:17 0.38:17 TER Rhythm (Slow), Presence (Indirect) 0.38:17 0.38:24 HOR Obstruction, Rhythm (Fast), Startle 0.38:24 Oss.32 College College Safety Zone, Rhythm (Fast), Startle 0.38:24 Oss.32 College College Safety Zone, Rhythm (Fast), Startle 0.38:24 Oss.32 College College Safety Zone, Rhythm (Fast), Startle 0.38:24 Oss.32 College College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:24 Oss.32 College College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:24 Oss.32 College College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:24 Oss.32 College College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:24 Oss.32 College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:25 Oss.32 College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:26 Oss.32 College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:27 College Safety Zone, Rhythm (Slow), Presence (Others) 0.38:29 Osstruction, Pre-established Danger, Rhythm (Slow), Conversation (Anxiety) 0.38:32 Osstruction, Pre-established Danger, Rhythm (Slow), Conversation (Safety) 0.38:32 Osstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety) 0.38:32 Osstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety) 0.38:32 Osstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety) 0.38:32 Osstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety) 0.38:32 Osstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety) 0.38:32 Osstruction, Pre-established Danger, Rhythm (Rising), Conversation (Safety), Ambient (Anxiety) 0.38:32 Osstruction, Pre-established Danger, Presence (Direct), Conversation (Safety), Ambient (Safety), Ambient	0:28:04	0:29:05		TER		Rhythm (Rising), Ambient (Anxiety), Ambient (Safety)	
0.331:00 grave open TER (Others), Realization, Repulsion (Social) 0.34:25 smokin pot BG Safety Zone, Rhythm (Slow), Presence (Others) 0.38:17 0.38:24 Ochrustion, Rhythm (Slow), Presence (Indirect) 0.38:32 0	0:29:05	0:30:34		BG	Rhythm (Slow), Presence (Others)		grave open
0:34:25 0:38:17 0:38:24 0:38:37 0:38:24 0:38:32 0:40:01 0:34:25 0:38:17 0:38:24 0:38:32 0:40:01 0:41:25 0:41:28 0:42:00 0:43:25 0:43:26 0:43:2	0:30:34	0:31:00	grave open	TER			
0.38:27 TER Rhythm (Slow), Presence (Indirect) (Danger) to Obstruction, Rhythm (Slow), Presence (Others), Rhythm (Slow), Conversation (Anxiety), Startle Rhythm (Slow), Conversation (Anxiety), Startle Obstruction, Rhythm (Slow), Presence (Others), Rhythm (Slow), Conversation (Safety), Conversation (Realization)  0.38:32 0.40:01 the blackest eyes TER (Others) 0.40:01 0.41:05 whats the buggyman?  0.41:05 0.41:28 vou are going to the Obstruction, Pre-established Danger, Repulsion (Social)  0.42:00 0.43:55 o.44:04 doggy dies HCR (Contact, Startle, Repulsion (Social)  0.43:55 0.44:04 0.45:38 0.47:45 anny paul called TER (Nothers) Contact, Startle, Repulsion (Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Others) Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Conversation (Safety) Conversation (Anxiety), C					Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
0:38:24 0:38:32 0:40:01 the blackest eyes TER (Obstruction, Pre-established Danger, Presence (Others), Rhythm (Slow), Conversation (Safety), Conversation (Realization)				TER	Rhythm (Slow), Presence (Indirect)	(Danger)	tru the window!
0:38:32 0:40:01 the blackest eyes TER Obstruction, Pre-established Danger, Presence (Others) Rhythm (Rising), Conversation (Anxiety) k Obstruction, Pre-established Safety, Presence (Others) Rhythm (Rising), Conversation (Safety) Obstruction, Pre-established Safety, Presence (Others) Rhythm (Rising), Conversation (Safety) Obstruction, Pre-established Safety, Presence (Others) Rhythm (Rising), Conversation (Safety) Obstruction, Pre-established Danger, Rhythm (Rising), Conversation (Anxiety) Rhythm (Rising), Conversation (Anxiety) Rhythm (Rising), Conversation (Anxiety) Rhythm (Rising), Conversation (Anxiety) Rhythm (Rising), Conversation (Realization), Conversation (Realization), Annient (Anxiety), Conversation (Anx	0:38:17	0:38:24		HOR			
0:40:01 the blackest eyes 0:40:01 0:41:05 whats the buggyman? 0:41:05 whats the buggyman? 0:41:05 vou are going to the 0:41:28 or 0:42:00 ball 0:41:28 or 0:42:00 or 0:43:55 buggyman is outside 0:42:00 or 0:43:55 or 0:43:00 or 0:43:55 or 0:43:00 or 0:43:55 or 0:43:00 or 0:43:55 or 0:43:00 or 0:43:0	0:38:24	0:38:32		REC	Realization		conversation with kiddy
0.41:25 0:41:28 0:42:00 ball BG Safety Zone, Rhythm (Slow), Presence (Others), Repulsion (Social) Rhythm (Rising), Conversation (Anxiety) known are going to the obstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Realization), Ambient (Anxiety), Conversation (Realization), Ambient (Anxiety), Conversation (Raniety), Startle (Anxiety), Conversation (Safety), Abnormal Effects (Anxiety), Conversation (Raniety), Conversation (Raniety), Conversation (Raniety), Conversation (Anxiety), Conversation (Anxiety), Conversation (Anxiety), Conversation (Anxiety), Conversation (Anxiety), Conversation (Anxiety), Startle (Anxiety), Conversation					(Others)		kid
0:41:28 0:42:00 ball BG Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)			whats the buggyman?		Obstruction, Pre-established Safety, Presence	1 1	
0:42:00 0:43:55 buggyman is outside TER Realization (Realization), Realization (Realization), Realization (Presence (Others), Realization (Presence (Others)), Realization (Presence (Others)), Ambient (Anxiety), Conversation (Realization), Ambient (Anxiety) (Conversation (Realization), Ambient (Anxiety), Conversation (Realization), Ambient (Anxiety), Conversation (Realization), Ambient (Anxiety), Startle (Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle (Rhythm (Slow), Startle (Anxiety), Startle (Anxiety), Startle (Anxiety), Conversation (Anxiety), Co							
0:42:00 0:43:55 buggyman is outside TER Realization Obstruction, Rhythm (Slow), Presence (Direct), Contact, Startle, Repulsion (Social) Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle Rhythm (Slow), Conversation (Anxiety), Startle Rhythm (Slow), Conversation (Anxiety), Startle Rhythm (Slow), Conversation (Anxiety), Conversation (Anxiety)	0:41:28	0:42:00	ball	BG	Obstruction, Pre-established Danger, Rhythm	Rhythm (Rising), Abnormal Effects (Anxiety),	killer in the road
0:43:55 0:44:04 dogg dies HOR Obstruction, Rhythm (Slow), Presence (Direct), Contact, Startle, Repulsion (Social) (Anxiety), Startle Rhythm (Slow), Startle Rhythm (Slow), Startle Rhythm (Slow), Startle Rhythm (Slow), Conversation (Anxiety), Conversation (Anxiety), Startle Rhythm (Slow), Conversation (Anxiety) (Anxiety) 0:45:38 0:47:45 anny paul called TER Rhythm (Slow), Presence (Indirect) Contract, Startle, Rhythm (Slow), Presence (Others) (Anxiety) 0:47:45 0:49:25 paul called BG (Slow), Presence (Others) (Obstruction, Pre-established Danger, Rhythm (Slow), Anxiety) 0:47:45 0:49:25 paul called BG (Slow), Presence (Others) (Distruction, Pre-established Danger, Presence (Others) (Distruction, P	0:42:00	0:43:55	buggyman is outside	TER	Realization	Ambient (Anxiety)	
0:44:04 0:45:38 BG Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Danger Zone, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety) Obstruction, Pre-established Danger, Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety) Obstruction, Pre-established Danger, Rhythm (Slow), Conversation (Safety), Ambient (Safety) k Obstruction, Pre-established Danger, Presence (Others) Obstruction, Pre-established Danger, Presence (Others) Obstruction, Pre-established Danger, Presence (Indirect), Startle Rhythm (Rising), Conversation (Safety), Ambient (Safety), Startle Obstruction, Pre-established Danger, Presence (Others) Obstruction, Pre-established Danger, Presence (Direct) Rhythm (Slow), Conversation (Safety), Ambient	0:43:55	0:44:04	doggy dies	HOR			
0:45:38 0:47:45 anny paul called TER Rhythm (Slow), Presence (Indirect) Conversation (Anxiety), Ambient (Anxiety) Conversation (Anxiety), Ambient (Anxiety) Conversation (Anxiety), Ambient (Anxiety) Conversation (Anxiety), Ambient (Anxiety) Conversation (Safety), Ambient (Safety), Ambient (Safety), Ambient (Safety), Startle Rhythm (Slow), Presence (Direct), Startle Rhythm (Slow), Conversation (Safety), Ambient (				BG			
0:47:45 0:49:25 paul called BG Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Others) Obstruction, Pre-established Danger, Presence Obstruction, Pre-established Danger, Rhythm (Rising), Conversation (Safety), Startle Rhythm (Rising), Conversation (Safety), Ambient (Safety), Ambien			anny paul called		Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Rising), Abnormal Effects (Anxiety),	
0:49:25 0:49:36 on your back HOR (Indirect), Presence (Obstruction, Pre-established Danger, Presence (Indirect), Startle Rhythm (Rising), Conversation (Safety), Startle Rhythm (Slow), Conversation (Safety), Ambient (Safety), Sample Safety), Sample Safety, Safety, Sample Safety, Sample Safety, Sample Safety,					Obstruction, Pre-established Danger, Rhythm		killer in the back
talking with paul on 0:49:36 0:50:48 the phone BG Obstruction, Pre-established Safety, Rhythm (Slow), Conversation (Safety), Ambient (Anxiety), Ambient (Safety)					Obstruction, Pre-established Danger, Presence		
			talking with paul on		Obstruction, Pre-established Safety, Rhythm	Rhythm (Slow), Conversation (Safety), Ambient	
Obsiduation, particularly, resestablished Daniger, Rhythm (Slow), Presence (Direct), Presence Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	J.+3.JO	0.50.46	are priorie	50	Obstruction, Danger Zone, Pre-established Danger,		
0:50:48 0:51:00 HOR (Others), Startle Knyinii (Rising), Abnormal Effects (Anxiety), Ambient (Safety), Startle	0:50:48	0:51:00		HOR			

 $\boxtimes$  4.1: Spreadsheet data for the film: "Halloween". First page.

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
:51:00	0:52:14		BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety) Rhythm (Slow), Conversation (Safety), Conversation	
-52-14	0:53:34		TER	Rhythm (Slow), Presence (Indirect)	(Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger,		
				Rhythm (Fast), Presence (Direct), Contact, Startle,	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
	0:54:18		HOR	Repulsion (Physical)	(Anxiety), Startle	back to the kids
54:18	0:55:13		BG	Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Pre-established Danger, Presence	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	
				(Others), Repulsion (Physical), Repulsion		
55:13	0:55:31		REP	(Psychological)	Rhythm (Slow), Rhythm (Rising), Ambient (Safety)	
		the buggyman is		Obstruction, Rhythm (Fast), Presence (Others),	Rhythm (Fast), Conversation (Anxiety), Startle, Repulsion	
55:31	0:55:46	outside!	HOR	Contact, Startle	(Social)	
-55-16	0.56-12	nobody boliovos mo	BG	Safety Zone, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Conversation	
.55.46	0.56.12	nobody believes me	ВG	Obstruction, Danger Zone, Pre-established Danger,	(Realization), Ambient (Anxiety) Rhythm (Slow), Conversation (Anxiety), Ambient	
56:12	0:57:06		BG	Presence (Others)	(Anxiety)	
57:06	0:57:09		HOR	Obstruction, Danger Zone, Contact, Startle	Rhythm (Slow), Startle	
			_	Obstruction, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Conversation	
57:09	0:58:20		REC	Realization	(Anxiety), Conversation (Realization)	
-58-20	1.00-00	lets rip clothes off	BG	Obstruction, Danger Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Anxiety), Ambient (Safety)	
30.20	1.00.00	ieta rip dotties on	ВС	Obstruction, Pre-established Danger, Rhythm	(Anxiety), Ambient (Salety)	
				(Slow), Presence (Indirect), Presence (Others),		
00:00	1:00:20	can I watch?	TER	Repulsion (Psychological)	Rhythm (Rising), Conversation (Safety)	
				Safety Zone, Pre-established Safety, Rhythm		
U0 <b>:</b> 20	1:03:12		BG	(Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)  Rhythm (Slow), Phythm (Fast), Conversation (Safety)	
03-12	1:03:17	shadow on the wall	HOR	Obstruction, Danger Zone, Pre-established Danger, Presence (Indirect), Presence (Others), Startle	Rhythm (Slow), Rhythm (Fast), Conversation (Safety), Startle	
JU. 12	1.00.17	S. SGOW ON UIC Wall	. 1010	Safety Zone, Pre-established Danger, Rhythm		
03:17	1:04:22		ВG	(Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
04.00	4.05 4		TEE	Obstruction, Danger Zone, Pre-established Danger,		
04:22	1:05:14		TER	Rhythm (Slow), Presence (Indirect)	(Anxiety)	
				Obstruction, Danger Zone, Rhythm (Fast), Presence (Direct), Contact, Startle, Repulsion		
05:14	1:05:50		HOR	(Psychological)	Rhythm (Fast), Abnormal Effects (Anxiety), Startle	
				Obstruction, Danger Zone, Rhythm (Slow),	1	
		stare at body (EH		Presence (Direct), Repulsion (Physical), Repulsion		
05:50	1:06:05	MAH GERD!)	REP	(Social)	Rhythm (Slow), Repulsion (Physical), Repulsion (Social)	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Repulsion	Rhythm (Slow), Rhythm (Rising), Abnormal Effects	
06:05	1:07:38	ahost	TER	(Psychological)	(Anxiety), Conversation (Safety), Conversation (Anxiety)	
		J		Danger Zone, Pre-established Danger, Rhythm	( , , , , , , , , , , , , , , , ,	
				(Fast), Presence (Direct), Contact, Startle,		
07.00	4 00 40		LIOD	Realization, Repulsion (Physical), Repulsion	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
07:38	1:08:10	death by tel cord	HOR	(Psychological) Obstruction, Danger Zone, Pre-established Danger,	(Anxiety), Startle, Repulsion (Psychological)	
				Rhythm (Slow), Presence (Indirect), Abnormal	Rhythm (Slow), Rhythm (Rising), Conversation (Anxiety),	
:08:10	1:10:29	anny??	TER	Effects (Anxiety)	Ambient (Anxiety)	
10:29	1:10:51		BG	Safety Zone, Rhythm (Slow)	Rhythm (Slow), Ambient (Anxiety)	
		going to the house		Obstruction, Danger Zone, Pre-established Danger,		
10:51	1:15:39	next door	TER	Rhythm (Slow), Presence (Indirect)	(Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Startle, Repulsion (Physical),	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle, Repulsion	
15:39	1:16:04	on top	REP	Repulsion (Psychological)	(Psychological)	
					Rhythm (Fast), Abnormal Effects (Anxiety), Startle,	
16:04	1:16:11		HOR	Rhythm (Fast), Startle	Repulsion (Physical)	
				Obstruction, Pre-established Danger, Rhythm	District (District) Commenced (Associate) Description	
16-11	1:16:20		REP	(Slow), Repulsion (Physical), Repulsion (Psychological)	Rhythm (Rising), Conversation (Anxiety), Repulsion (Psychological)	
.0.11	1. 10.20			Obstruction, Danger Zone, Pre-established Danger,	(i Gyoriological)	
				Rhythm (Slow), Presence (Indirect), Repulsion	Rhythm (Rising), Conversation (Anxiety), Repulsion	michael on the
16:20	1:16:36	run away crying	TER	(Psychological)	(Psychological)	shadows
				Obstruction, Danger Zone, Pre-established Danger,		
16-36	1:16:50		HOR	Rhythm (Fast), Presence (Direct), Abnormal Effects (Anyiety), Contact, Startle, Regulation (Physical)		
10.30	1. 10.50		ION	(Anxiety), Contact, Startle, Repulsion (Physical) Obstruction, Danger Zone, Pre-established Danger,	(Anxiety), Startle   Rhythm (Rising), Abnormal Effects (Anxiety),	
				Rhythm (Fast), Presence (Direct), Repulsion	Conversation (Anxiety), Ambient (Anxiety), Repulsion	
16:50	1:19:27		HOR	(Psychological), Repulsion (Social)	(Psychological)	
				Obstruction, Danger Zone, Pre-established Danger,		
10-27	1.20.06	do as I say!!	TER	Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	
13.21	1.20.00	uo ao i oay:!	ILA	Obstruction, Danger Zone, Pre-established Danger,		
20:06	1:20:20	second attack	HOR	Rhythm (Fast), Contact	(Danger), Startle	
		hes dead?	REC	Obstruction, Rhythm (Slow), Realization	Rhythm (Slow)	
		you cant kill the		Obstruction, Safety Zone, Rhythm (Slow).	Rhythm (Slow), Rhythm (Rising), Conversation (Safety),	
20:59	1:22:18	buggyman	TER	Presence (Indirect), Presence (Others)	Ambient (Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Abnormal Effects	Rhythm (Rising) Rhythm (East) Ahnormal Effects	
22:18	1:24-19	onthecloset? really?	HOR	(Anxiety), Startle, Repulsion (Social)	(Anxiety), Startle	
		stab! dead now?	REC	Obstruction, Safety Zone, Realization	Rhythm (Slow), Conversation (Realization)	u silly rabbit
13	5.12				Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	
25:42	1:26:26	hes like jesus!	TER	Rhythm (Slow), Presence (Indirect)	(Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger,		
	4.07.00		LIOD	Rhythm (Fast), Presence (Direct), Contact, Startle,	Rhythm (Fast), Startle, Repulsion (Physical), Repulsion	-1
00-00	1:27:08		HOR	Repulsion (Physical), Repulsion (Psychological) Safety Zone, Rhythm (Slow), Presence (Others),	(Psychological) Rhythm (Slow), Conversation (Safety), Conversation	shot dead
26:26					TRIDELLING COUNTY COUNTY SAUDIT COUNTY COUNTY SAUDIT	
			REC			
	1:27:41		REC	Realization Obstruction, Danger Zone, Pre-established Danger,	(Realization)	
27:08	1:27:41	the bodys gone!	REC TER	Realization		end of movie

 $\ensuremath{\boxtimes}$  4.2: Spreadsheet data for the film: "Halloween". Second page.

# 第5章

# Heart Rate User Study

In this chapter we discuss our findings in a conducted user study focused on the effects of the stages of fear in the heart rate of users. We use heart rate to firstly to validate our stage system because of its relationship to the emotion of fear and secondly to determine how it variates with different stage usage.

## 5.1 Heart Rate User Study System

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From the list of the 9 analysed films 4 films were selected for this study. They were used for their content and language availability. The reason for the selection by language availability was that the fact that the entire user group spoke mainly Japanese, thus any film undubbed or without subtitles in Japanese wouldn't exert the same amount of impact on the viewers, since they wouldn't be able to understand the narrative and would be oblivious to important auditory cues. The selected films were: "Dawn of the Dead" (1978), "Jaws 4: The Revenge" (1987), "Scream" (1996) and "The Exorcist" (1973).

A group of 5 Japanese college students (one female, four male) between the ages of 21 and 24 was used for the purposes of this test.

The test group was individually shown a 15 minute selection of each of the 5 films. All but one film used the first 15 minutes of the movie in order to avoid problems with lack of understanding of the narrative and subsequent effects on heart rate impact. The only film test that didn't follow this rule was "The Exorcist" (1973), which first 15 minutes were deemed not to be adequate for the purposes of this test. The 15 minutes coursing from 1:36:00 to 1:51:00 were used instead, due to the fact that they condensed

the narrative of the film and showed the most variation in Fear Stages. Also this 15 minutes were deemed compact enough in narrative to be used separately without much disturbance in the understanding of the film 's content.

Heart Rate was measured using a Nissei Heart Rate Monitor [cite] that took a sample every 4 seconds for a total of 226 samples for each film. All tests were conducted on individual soundproofed rooms, with a 28 inches monitor and headphones. Each test subject was shown the films in subsession and left completely alone for the duration of each film. Subjects were given a break in-between films in order to allow their heart beats to fall back to regular values. Resulting samples were imported to a laptop computer on-spot in the in-between breaks.

The accumulated data samples were first imported to the OIF-10 heart beat graph software that accompanies the Heart Rate Monitor and later exported to a spreadsheet for data analysis and backup.

## 5.2 Heart Rate User Study Results

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In this section we compare the data samples taken from the HR test. Data was first normalized in order to analyze each user's result on same-ground basis. The normalized graphs of each film were then compared as a whole, showing the difference in graph results for different stages. Finally graphs from the different films were split, grouped and then compared by stages in order to further identify similarities by stage.

#### 5.2.1 Normalization

Since there are very large individual differences for resting heart rate in users data normalization was used to be able to group analysis. This process was found to be used by similar researches in the past[cite]. Data samples were transformed into a percentage of the span for that particular signal for each participant. A global sample minimum and maximum heart beat sample were obtained from each participant and for each film test. Each sample for each film was normalized using the following formula:

$$NormalizedHR_i = \frac{HR_i - HR_{min}}{HR_{max} - HR_{min}} \times 100$$
 (5.1)

[insert HR normalization comparison here] The image shows differences in graphs when using and not using graph normalization.

#### 5.2.2 Normalized graphs for each film.

In this subsection we analyze normalized data averaged between all users for each film. In this subsection you can find 5 graphs each belonging to a different film /cite-fig:jawsgraph/citefig:zombgraph/citefig:screamgraph/citefig:exortgraph/citefig:elmgraph. The Y axis shows results for the normalized HR samples that were averaged through all users. The X axis represents a time frame starting from 0:00:00 ending in 0:15:00, this corresponds to the 15 minutes sample taken from each film. Half-opacity colored zones are shown in different colors, they represent each different stage as found in scene analysis: light blue for BACKGROUND, orange for TERROR, red for HORROR, green for RECOVERY and lastly purple for REPULSION.

I will proceed to analysis each graph, first dividing by each stage case and then comparing the graph results to content found in the films on those specific zones. Lastly we will determine if the results correspond to the following hypothesis:

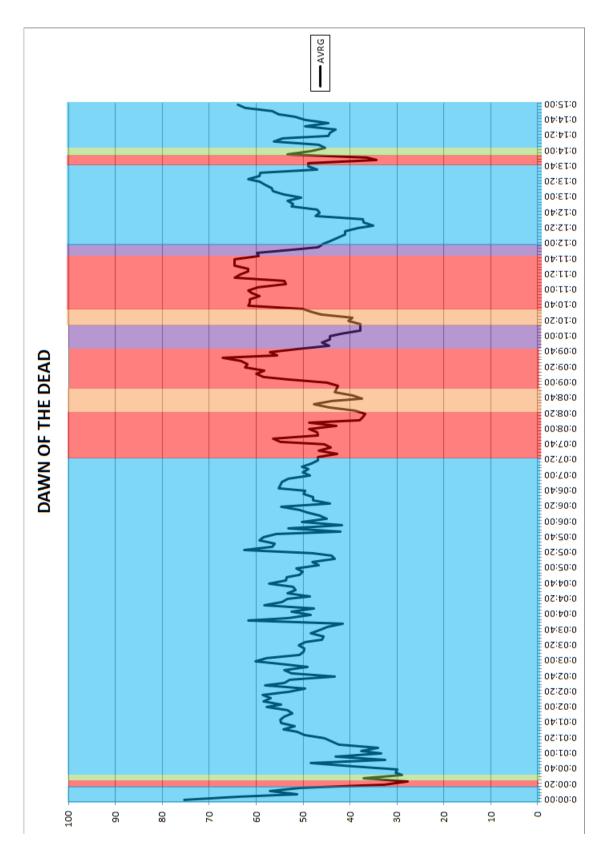
In the following analysis we use a vocabulary of broad meaning to define the changes in graph data. With the intend to remain specific and avoid confusion they are defined in detail as follows:

- "High rise" / "Heavy drop": A difference of 15% or more in data samplings between two points.
- "Stabilize": Refers to either graph data that tends to remain without mayor variation (less than 5%) for a relatively long duration (more than 16 seconds/4 samples) or to graph data that rises or drops towards around 50% and then remains within little variation and close to this middle range.
- "Sudden rise/drop": A rise or drop that starts and ends in less than 8 seconds(2 samples). "Start" and "End" are defined by relatively significant changes towards an opposite "y" direction or stabilization.
- "Steady rise/drop": A rise or drop that starts and ends in more than 8 seconds(3 samples).
- "Ululation": Refers to graph data of small rises and drops in consecutive and relatively similar measure while variations remain over 5% yet within 10%.
- "Narrative (Stage)": Refers to cues that have similarities to our proposed "Stages of Fear" but that are found in dialogue as the story develops rather than the audiovisual clues that we use to classify the "Stages".
- "Sample": Refers to specific samples of Heart Rate data taken in relation to their time (x axis) frame.

- 1. BACKGROUND stages will show ululating graphs that remain in relatively low values. Rises and drops in graph will correspond to narrative horror, terror or repulsion. BACKGROUND stages that follow HORROR, TERROR or REPULSION stages will show high values at the beginning and follow with a drop until it stabilizes in low values. This is due to this stage containing narrative values that haven 't been analysed thoroughly in this research.
- 2. TERROR stages will show slow rise of HR values over time. Ululation should be minimal. This is due to this stage containing anxiety-focused content that raise arousal in viewers which in turn slowly affects HR.
- 3. HORROR stages will show sudden rises of HR values and affect the following stage beginning. This is due to this stage containing startle content that "kick-jump" arousal in turn affects HR with sudden rises.
- 4. REPULSION stages will show either sudden drops. This is due to individuals strong negative valence towards repulsive cues, which in turn decreases HR.
- 5. RECOVERY stages will show drops. This is due to participants given a sense of safety and their HR normalizing with realization and relaxation.
- 6. Stages of very short duration [0 to 8 seconds] might not follow the above hypothesis. They will most likely be affected by the stage before or show results in the beginning of the next stage. This is due to the sudden changes that don't record in heart rate immediately, which rises or drops with a few seconds delay to stimuli.
- 7. The start of graphs will show high values. This is due to noise in the HR samplings as the HR monitor stabilizes and should be treated as a mechanical mistake and not certain data for analysis.

#### 5.2.2.1 Graph Analysis: "Dawn of the Dead"

The graph for "Dawn of the Dead" 5.1 shows a starts with a heavy drop. Next we find ululation between the values of 40 and 60. Next we find three sudden high rises each followed by relatively heavy drops. Lastly the graph ends with a final rise. The highest value is found exactly in the beginning, next to highest in a rise close to 0:09:20. The lowest value can be found close to 0:00:20, the second to lowest one can be found close to 0:13:40.



 $\boxtimes$  5.1: Normalized stage graph for "Dawn of the Dead". Stages colored.

For BACKGROUND stage: we find this stage in 4 instances.

- 1. 0:00:00 to 0:20:00 [aprox] shows a sudden drop. The content is the starting tiles in white over a red background, followed by sleeping girl sitting on the floor. Red color, specially when is in high saturation and brightness, causes rise in anxiety in people. The difference between the red color's anxiety and the image of a woman (safety) can be the cause of a sudden drop. This follows HYPOTHESIS 1 in part, and HYPOTHESIS 7.
- 2. 0:00:30 and 0:07:10 [aprox] shows ululating graph some of the peaks reaching very high points. The content is a big group of people in a TV studio, filming an interview of a government official that claims the dead are coming back to live. The staff is anxious running around, some even leaving the station mid-interview. There are scenes of argument and a bit of rioting. After analysing the graph with the film we find that the lowest points/drops in the graph correspond to drops of BGM and the government official talking. His voice is very low pitch and he's speaking about death, corpses, living dead and an emergency state. This could be the causes for the drops relating to a sort of "narrative REPULSION" stage. In contrast, the rises have people moving around nervously and rising BGM, probably causing anxiety in viewers. This scenes were considered as BACKGROUND for the presence of safety zone, presence(others) and rhythm(slow) cues but HR samples show that audio cue rhythm (rising) and conversation (anxiety) might be "stronger" in affect for the viewers and enough to classify a scene as TERROR stage. This follows HYPOTHESIS 1 in part, but the high values of the rises demand further analysis.
- 3. 0:12:00 to 0:13:40 [aprox] shows a drop, a heavy rise then a heavy drop. The content of this scene is two officers meeting on the basement of the building, at the beginning they are aiming guns at each other but then the tension breaks and they are simply taking a break, smoking cigarettes and talking about running. The first drop correspond most likely to delay samples from the repulsion scene before. The following rise correspond to both officers taking a break and smoking, talking about the events that just happened. This rise result is most concerning since none of the hypothesis proposed nor common reasoning apply. The drop happens when both officers mention running away from all the mess, this could be related to a sense of security, a sort of "narrative RECOVERY" stage. This scene doesn't follows HYPOTHESIS 1.
- 4. 0:14:00 to 0:15:00 [aprox] shows a quick rise and drop, then a final high rise. The scene shows a priest talking with two officers asking for passage. The final rise corresponds to a rise in BGM the priest leaving as he talks about living dead on the adjacent room and about stopping the killing. This is related to the rhythm(rising)

conversation(anxiety) cue and TERROR stage. This follows HYPOTHESIS 1 in part, but the high values on the last rise demand further analysis.

For TERROR stage, two instances were found:

- 1. 0:08:20 to 0:08:50 [aprox] shows a relative small rise and a fall. The scene shows a group of policemen putting on gas masks, storming a building, people are being arrested and there is visual obstruction by gas. The rise and fall are almost exactly proportional to BGM tempo, again showing that rhythm(rising) can be a very strong cue. Both the rise highest point and the drop lowest point are relatively small, showing that perhaps this scene doesn't generates as much anxiety or sense of imminent danger as expected in analysis.
- 2. 0:10:10 to 0:10:40 [aprox] shows a steady rise. The scene shows a zombie with legs cut that slowly moves towards an officer, while another officer urges him to shoot the zombie. This could be caused by anxiety towards an indirect presence (zombie is closing in but its lack of mobility makes it not immediately dangerous). Also BGM rises accordingly causing rise in anxiety. This scene follows HYPOTHESIS 2 for TERROR stage.

For HORROR stage, four instances were found:

- 1. 0:00:22 to 0:00:24 is the lowest point on the graph. Shows how the girl woken by someone else up suddenly and lets out a small gasp. This is a low point in the graph which may be affected by the BACKGROUND STAGE before and the following stage [a recovery stage], shows a small sudden rise that could be understood as delay sample for this startle cue. This follows HYPOTHESIS 7.
- 2. 0:07:28 to 0:08:25 shows medium ululation, a sudden rise then a heavy drop. The film shows criminals come out of a building, start shooting, an officer is shot dead, officers jumping a small wall, a criminal that is caught then tries to flee but is shot dead. The ululation shows officers and criminals shooting. The rises are too low [at around 45]
- 3. 0:08:54 to 0:09:45 show a sudden very high rise in graph. In this time frame we find the second highest HR sample point of the entire graph (67%). The scene shows masked officers running down the stair, civilians running and scream and an officer that appears to have gone out of control shooting and breaking down doors. The beginning sudden jump in the graph (around 10% increase) happens when in the film we see quick cuts of a of a zombie-like man, a extreme close up of a screaming woman and the officer, startled, shoots inside a room. This one scene packed with startle in both audio and video and this could be assumed to be reason for the

rise in HR. This follows HYPOTHESIS 3. We then find a few very small drops and rises to sum up to a steady rise ending with the second highest point of the graph. This corresponds in the film to a scene of a different officers trying to stop the officer that has gone apparently crazy, at the high point we find a contact and struggle between an officer and the gone-crazy officer. Contact and fast rhythm were the two main cues for the classification of this scene and are believed to cause an imminent sense of danger for viewers. This could be the reason for the very high point in the graph. This follows HYPOTHESIS 3.

- 4. 0:10:37 to 0:11:48 shows a sudden very high rise in graph, the graph remains in high points but for a small drop in the middle, ending with a heavy drop. In this scene we find how an officer is surprised from behind and attacked by zombies. The first sudden rise and following stable line on high points corresponds to the startle of zombies appearing suddenly on screen and attacking the officers. The drop in the middle corresponds to an scene of officers shooting a zombie many times on the chest. The next rise and stable line correspond to more struggling with zombies, shots being fired and a zombie that has escaped the room. The final drop found on the graph corresponds to the zombie biting another person. For the rises we find most of the cues for the HORROR stage which creates a sudden startle and sense ongoing danger on viewers and explains. This follows HYPOTHESIS 3 correctly. In contrast on the drops we find cues for REPULSION and, while still less than that the cues for HORROR, they appear to have strong effects on HR patterns believed to belong to the REPULSION stages as a results this specific points do not follow HYPOTHESIS 3.
- 5. 0:13:48 to 0:13:56 shows a sudden heavy drop and a sudden high rise in graph. In the film we are shown a door being suddenly opened, the officers being startled and pulling out their guns, and a unknown man in the doorway. The stage is very short, meaning that the drop could be explained as noise/delay from the scene before, following HYPOTHESIS 6. The rise could be also explained this way, or as a result of startle thus following HYPOTHESIS 3 of HORROR.

For REPULSION stage we find two instances:

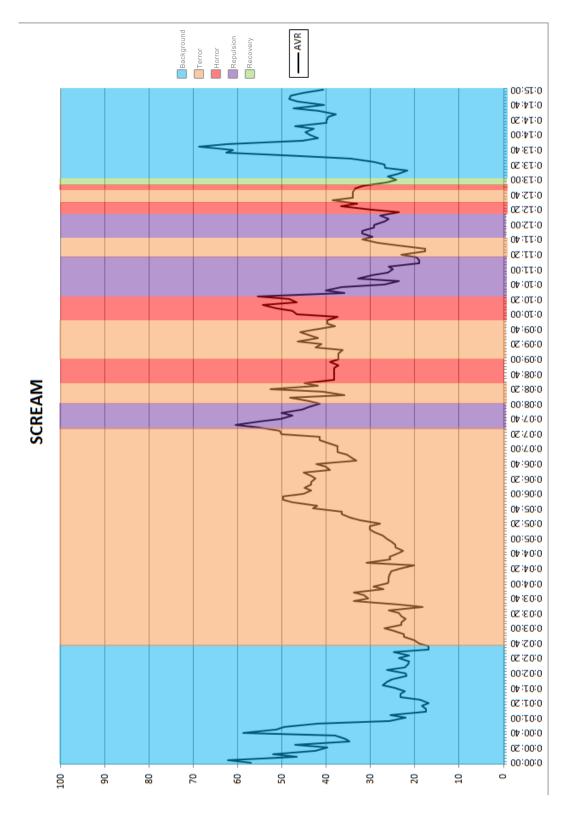
- 1. 0:09:45 to 0:10:18 shows a steady heavy drop. The scenes shows a dead officer being dragged out of a room, and a room with bodies. This follows HYPOTHESIS 4.
- 2. 0:11:48 to 0:12:00 shows a sudden heavy drop. In here we have an scene of a young officer slowly rise a gun to his head and commit suicide. This follows HYPOTH-ESIS 4.

For RECOVERY stage we find two instances:

- 1. 0:00:24 to 0:00:28 shows a rise. The scene shows a girl being woken up by who we realize is just another co-worker. This doesn't follows HYPOTHESIS 5. Perhaps due to interruption by HYPOTHESIS 6 for short duration.
- 2. 0:13:56 to 0:14:04 shows a small. The scene shows a priest coming out of a doorway. This scenes follows HYPOTHESIS 5, but is not considered reliable because of HYPOTHESIS 6 for short duration.

#### 5.2.2.2 Graph Analysis: "Scream"

The graph for "Scream" 5.2 starts with a steady drop with a sudden rise in the middle. Next we find ululation between the values of 20 and 30. Next we find an arguably steady rise. Close to the middle of the graph we find a sudden rise, ululation follows and then another sudden rise can be seen. Next theres is a drop followed by ululation in low values. Finally we find a very high rise, a drop and final ululation. The highest value is found at around 0:13:48, next to highest in a rise close to the beginning. The two lowest points are at 0:01:20 and 0:02:30.



 $\boxtimes$  5.2: Normalized stage graph for "Scream". Stages colored.

#### For BACKGROUND we find two instances:

- 1. 0:00:00 to 0:02:28 we find a steady drop starting from a very high point, followed by a sudden high rise, next there is a very heavy and sudden drop ending in one of the lowest values in the graph, finally there is ululation at low values. The scene includes starting credits and a young woman alone at her house talking to a stranger that has apparently dialed the wrong number. The starting high points correspond to starting credits that include "Scream" ing and flashes of red, thus startle and abnormal effects (anxiety) could be the reason for this points. But very short duration (HYPOTHESIS 6) and starting points (HYPOTHESIS 7). The sudden high rise corresponds to the phone ringing for a second time after it was established that the stranger had the wrong number. This graph results are unexpected since the scene is of low rhythm and lacking of much startling or repulsion. Further analysis is required. The following drop and ululation correspond to the girl cooking, being called again and sort of flirting on the phone. The second lowest point in the graph is found here and they correspond to the phone ringing. This could due to repulsion towards the insistent caller or because of the slow rhythm. The ululation is related to the girl talking on the phone, relaxed and some flirting occurs. All of this follows HYPOTHESIS 1.
- 2. 0:13:00 to 0:15:00 we find a sudden very high rise a subsequential drop that is followed by final ululation. The scene shows us a couple, the father coming into the room claiming have heard noise, a conversation between the couple about their relationship, and some kissing. The very sudden high rise is a disturbing finding, being the highest point of the graph it was expected that we would find heavy startle or heavy arousal on such scene, but the rise corresponds to the father talking to the girl about him leaving for the weekend and the peak corresponds to the boyfriend saying "that was close". This result does not follows any HYPOTHESIS and we believe it might be outside the range of this research. The drop and ululation correspond to a conversation of the couple about how their relationship is missing physical contact and finally with some kissing and hugging. This follows with HYPOTHESIS 1.

#### For TERROR we find five instances:

1. 0:02:28 to 0:07:33 we find ululation on low levels, followed by a steady rise. Next we find a steady drop followed finally by a steady high rise. The scene shows the girl realizing the stranger calling is actually watching her, she running around the house locking doors, anxiety build up as she argues with the stranger, a young man shown tied up in the courtyard, and the young woman crying. The first ululation we find drops and rises that we will analyse next. The rises all seem to be in

related to the phone calls, threats made by the stranger and moments of BGM increase. This could be related to cues similar to HORROR stage. The drops are related to when the stranger talks calmly and when the girl is crying after the calls. This could be related to cues similar to REPULSION. This rises and drops while sudden are relatively small (less than 10%) and it could understood that in general not enough to classify them as different stages. After the ululation the graph shows a steady very high rise (an increase of around 37%) that corresponds to the girl threatening the stranger with her boyfriend, the boyfriend tied in the courtyard, the stranger telling the girl he wants to play a game, and finally the girl answering a question wrong. The tension build up in this scene is relatively intense, while keeping the stranger 's presence indirect (outside, hidden, just on the phone). There are many cues for TERROR and the HR graph is in accordance to HYPOTHESIS 2.

- 2. 0:07:50 to 0:08:30 shows a drop and to sudden rise followed by drops. Again the drops happen for both when the girl is crying and when the stranger is speaking on the phone. The rises happen when the stranger asks her "what door am I at?" indicating imminent danger and a possibility of direct presence, as related to HORROR stage. Even though TERROR cues were aplenty, the results for this instance were not in accordance to HYPOTHESIS 2.
- 3. 0:09:04 to 0:09:55 we find a rise, some ululation then followed by a drop (small mountain-shaped). In the scene the girl walks outside the house for safety, the stranger can be seen inside the house, a car is coming down the road. The first rise corresponds to the girl panting outside the house, and rising BGM. The highest point of the ululation corresponds to the killer being shown around the house but unaware of the girl. The final drop corresponds to a car pulling up on the driveway and the girl crawling away. In this particular instances TERROR state is kept with slowly rising BGM, related to audio cue Rhythm(rising), but the HR samples are only in accordance to HYPOTHESIS 2 in part. The drop in HR at the ends shows tendencies found in REPULSION stage and further analysis is required.
- 4. 0:11:19 to 0:11:40 shows a small drop and a rise. The scene shows the parents of the girl going into an empty house, flames, anxiety in general. The rise corresponds to the mother running around calling the girls name, this is understood as rise in anxiety and in accordance to HYPOTHESIS 2.
- 5. 0:12:28 to 0:12:49 shows a drop. The scene shows a girl alone at night that hears some noise on the window and goes to check it out. The fall does not follow HYPOTHESIS 2 on TERROR, it could be considered that short duration or very little amount TERROR cues failed to generate much anxiety thus not affect the HR of the viewers.

#### For HORROR we find four instances:

- 1. 0:08:30 to 0:09:04 we find a small rise followed by a line of little change. The scene shows a chair crashing through a window, the girl running around the house and arming herself with a knife, and the stranger running in the house. The HR results showed less increase than expected for a scenes with strong startle and rhythm(fast) cues. This does not follow HYPOTHESIS 3 for HORROR.
- 2. 0:09:55 to 0:10:22 we find a sudden high rise. The scene shows a scream close up of the stranger, the stranger breaking to the window, contact, stabbing, The rise is related to fast rhythm in BGM, startle of break of window, fast rhythm in running and contact with the stranger. This follows HYPOTHESIS 3.
- 3. 0:12:12 to 0:12:28 we find a sudden rise. The scene shows the mother coming out of the house and screaming. We have a extremely fast close up to the hanging bloodied body of the girl. This is believe to cause both anxiety by rhythm and abnormal effects, startle for suddenness of image and screams, and repulsion towards the dead body. The graph follows HYPOTHESIS 3.
- 4. 0:12:49 0:12:50 we find a relatively low point in the graph. The scene shows a screaming girl startled by something on the window. The lack of change can be derived from both lack of duration following HYPOTHESIS 6, and lack of enough HORROR cues to cause enough startle on users. The graph does not follows HYPOTHESIS 3. /endenumerate

For REPULSION we find three instances.

- 5. 0:07:33 to 0:08:00 shows a clear fall. The scene does the girl's girlfriend suffering and the sound of cutting and what appears to be falling guts. Then the boyfriend is shown bloodied with his stomach cut open, the girl, seeing this, starts crying and crawls to a corner. The death of the boyfriend has strong repulsion(physical) cues and the crying and the girl crying in a corner along is a strong repulsion(psychological) cue. This follows HYPOTHESIS 4 for REPULSION.
- 6. 0:10:22 to 0:11:19 we find a steady heavy drop, a small rise and a heavy drop. The scene shows the girl stabbed, a drop in BGM and rhythm, running around, struggle, then the girl running to her parents but unable to speak and finally stabbed to death. The fall begins from the moment the BGM drops and the girl is stabbed, the film rhythm loses momentum and the girl is shown desperate trying to reach for her parents unable to speak, all strong cues for REPULSION that are believed to cause the drop in HR samples. This follows HYPOTHESIS 4. The rise in the middle corresponds to the girl apparently reaching for the parents that are very close in distance, but we find that she has been unable to speak,

presumably from a crushed windpipe from the the attack. This follows a sense of realization referred to RECOVERY, but the lack of speech puts the scene back on REPULSION quickly.

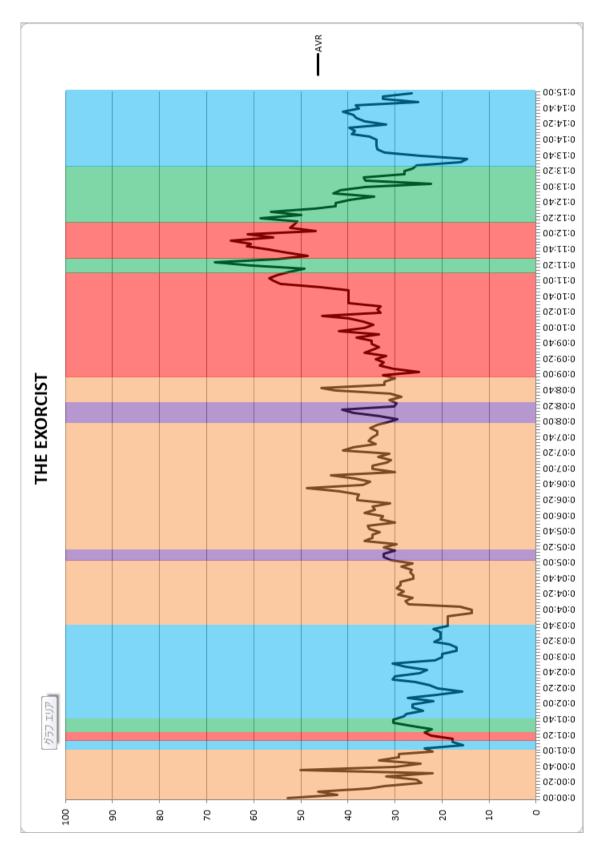
7. 0:11:40 to 0:12:12 we find a steady small drop. The scene shows a mom desperate hearing the gasping voice of her daughter on the voice, the bloodied body of the girl being dragged on the ground, the line breaking and then the mother being asked to go next door to call the police. This scenes has strong REPULSION cues, and follows HYPOTHESIS 4.

#### For RECOVERY we find one instance:

1. 0:12:50 to 0:13:00 we find a drop in graph. The scene shows a boy coming out of the window and the girl realizes that the noises were just the boy coming up the window. This scene follows good cues for RECOVERY and follows HYPOTHESIS 5 for it even considering its small duration.

#### 5.2.2.3 Graph Analysis: "The Exorcist"

The graph for "The Exorcist" 5.2 starts with a drop. Theres a sudden very high rise close to the beginning and then a drop followed by ululation on low values. Next we find a sudden rise followed by ululation between 30 and 40. In this ululation there is a few high points passing the 40 points. For the second half there is a rising ululation that ends with a sudden very high rise that culminates with the highest point on the graph, followed by a small drop and another rise that follows in the second highest point. Then there is a very heavy steady drop, followed by a sudden high rise and ululation that continues until the end of the graph. The highest point is around 0:11:10, the second close by at 0:11:40. The lowest points are at 0:03:50 and 0:13:40. "The Exorcist" was the only film which sample was not taken from the starting 0:00:00, but rather from the 1:36:00 point in the film. Since we wish to focus on points in the graph, the following instance's time will show times in the graph and not in the film. For anyone trying to find the points in time of the film, the film sample starting time (1:36:00) should be added to instance time.



 $\boxtimes$  5.3: Normalized stage graph of "The Exorcist". Stages colored.

For BACKGROUND we find three instances.

- 1. 0:01:00 to 0:01:12 we find a drop. The film shows an old priest being received to a house, he introduces himself to the woman that owns the place and a young priest thats waiting on the living room. This follows HYPOTHESIS 1 for background to certain degree, but short duration might be affecting the results as explained in HYPOTHESIS 6.
- 2. 0:01:40 to 0:03:40 we find ululation between 18 and 30 with two clear drops in the middle. The film shows the sister listening to music on the basement, old priest speaking with the mother and the priests getting ready for exorcism. The ululation happen on conversations with between the priest and the mother, and conversation between the priests. The first drop corresponds to the old priest accepting alcohol. The second drop corresponds to the old priest telling the young priest that the demon is a liar and shouldn't be listened to. This could be understood as REPULSION affecting the graph a little, but both cue amounts and HR graph doesn't show enough change and can be encompassed as BACKGROUND. This instance follows HYPOTHESIS 1.
- 3. 0:13:24 to 0:15:00 we find it starting from the lowest point in the graph which quickly jumps back to the middle with a sudden high rise. This is followed by ululation that continues until the end. The scene shows priest talking outside the room sitting on the stairs, the old priest goes into the bathroom to drink medicine and the young one walks into the room. The rise occurs when priests are speaking on the stairs. Perhaps the contrast between the very repulsive scene before and the slow rhythm and safety of this scene explain the sudden jump to a more middle-point, indicating traces of RECOVERY. The ululation happens when the priests separate, indicating traces of TERROR. In general, this instance follows HYPOTHESIS 1.

#### For TERROR we found four instances:

1. 0:00:00 to 0:01:00 we find the heavy drop, followed by a very high sudden rise ending with another drop. The scene shows the old priest receiving a letter, a close up of the possessed girl, and the priest reaching a house on a foggy night. The starting drop can be explained a difference between monitor starting noise and a relatively safe scene of the priest walking in a park. This follows HYPOTHESIS 7 for noise. The rise corresponds directly with the sudden close up of the girl. This does not follows HYPOTHESIS 2 and posses heavy cues and HR qualities belonging to HORROR. This indicates a possible analysis error that should 've classified this scene differently. The following drop corresponds to the priest reaching the house with a lot of fog, rising music and high contrast. The cues follow the

- TERROR stage, but the HR samples unfortunately do not follow HYPOTHESIS 2 for TERROR. This instance in general does not follows HYPOTHESIS 2 and demands for further consideration and in-depth analysis.
- 2. 0:03:40 to 0:05:04 we a drop, then a sudden high rise ending with ululation close to point 30. The scene shows the priests slowly going up the set of stairs, talking with the mother for a while. Then they go inside the room and start the exorcism. The sudden rise corresponds with the priest asking for the daughter's name and a groan coming from upstairs. Imminent danger and abnormal effects(anxiety) cues are found here and could be the cause of the rise in arousal for this one instance. Though the rise in anxiety is TERROR related, its suddenness demands further analysis and only follows HYPOTHESIS 2 in part.
- 3. 0:05:16 to 0:07:16 we find ululation between 30 to 40 but for three rise found above 40. The scene shows the the priests as they start praying while the possessed girl shakes, screams and insults. The bed starts shaking, floats and then falls down. The three rises correspond to the girl barking, the bed shaking and the bed falling down, all of them cuts where loud sounds that cause slight startle which might be the reason for the rises. This instance has many cues mixed together in small potency, but the fact that the girl was tied (creating presence(indirect) and ambiental anxiety lead us to classify it as TERROR. The resulting graph nevertheless does not follow HYPOTHESIS 2, we believe so many different cues cause interference. Though the graph does shows levels of anxiety, a more specific cut-by-cut analysis could yield better results.
- 4. 0:08:24 to 0:08:56 shows a sudden rise and a following drop. The scene shows the possessed girl laughing and crying as the priests struggle to continue the exorcism. This does not follow HYPOTHESIS 2, further analysis of what might have caused the sudden rise is necessary.

#### For HORROR we find three instances:

- 1. 0:01:12 to 0:01:24 shows a sudden if small rise. The film shows a group of people on a living room and a scream coming from upstairs startles them. This follows HYPOTHESIS 3 for HORROR.
- 2. 0:08:56 to 0:11:08 shows a drop a sudden rise, followed by rising ululation. Next we have a drop and two sudden very high rises. The film shows the priest starting to exorcist the girl scream, the walls breaking and both priest repeating the phrase "the power of christ compels you" as the girl is floating. The first sudden drop and rise correspond to the walls breaking suddenly, following HYPOTHESIS 3. The rising ululation high points correspond to shakings, breakings of the wall and door,

shouts. We understand this as a mixture of TERROR with a rising anxiety, and HORROR with small shocks and startles. Following perhaps both HYPOTHESIS 2 and 3, but the mixture of cues creates again noise and complicates analysis. The final very high rise corresponds to the priests screaming "the power of christ compels you!" repetitively as the girl floats on top of the bed. There's clearly a build up of anxiety. This specific rise follows HYPOTHESIS 2.

3. 0:11:28 to 0:12:12 shows a sudden rise ending in the second highest point of the graph, followed by a drop. The films shows the younger priest being attacked by the possesed child, the older priest continues but a huge shake makes him fall to the ground, then theres a shot of the girl reaching up with her hands in contrast. The drop is related to the young priest falling to the ground. This does not follow HYPOTHESIS 2. The high rises corresponds to a sudden big shake of the ground that makes the old priest fall down. This follows HYPOTHESIS 2. The final drop is related to the girl reaching up with her hands in an awkward position. This does not follows HYPOTHESIS 2 and could be a mis-analysis (relating more to REPULSION than HORROR).

#### For REPULSION we find two instances:

- 1. 0:05:05 to 0:05:17 shows a better small rise and minimal drop the graph. The films shows the girl spitting green slime on the old priest glasses. It is probable that the suddenness of the event also affect the graph. This follows HYPOTHESIS 6 for noise and this does not follow HYPOTHESIS 4 for the lack of a clear drop in graph.
- 2. 0:07:57 to 0:08:24 shows a sudden rise and drop. The scene shows the girl vomiting in a abnormally big amount and of green color. The rise might relate to shock of the event which doesn't follows HYPOTHESIS 6, but the drop happens after the vomit, when the priests are trying to clean up a piece of cloth that was dirtied by it, which is in accordance to HYPOTHESIS 6.

#### For RECOVERY we find three instances:

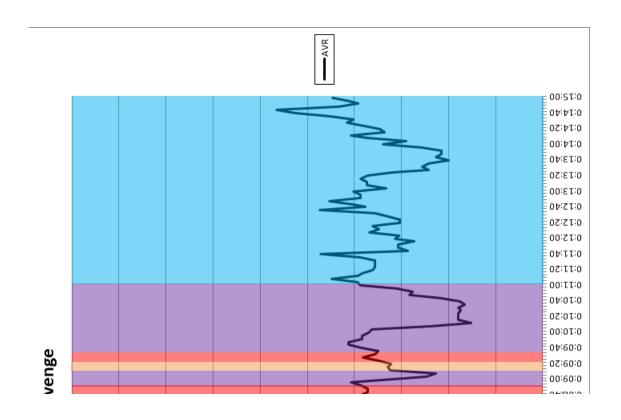
- 1. 1:37:22 to 1:37:39 shows a rise in the graph. In the film the old priests explains the young priest what he would need for the exorcism, ignoring the screams as apparently non-dangerous. This does not follow HYPOTHESIS 5, probably for short duration or noise of many cues at the same time.
- 2. 1:47:08 to 1:47:28 shows a sudden high rise and a sudden drop. In here we find the priest retying up the girl and securing her to the bed. The act of tying up returns the girl to presence(indirect) and would let us to believe this to be a recovery stage.

This is a very unexpected results for is the highest point on the entire graph. It could be for a number of things, contact between the young priest and the girl could be generating very high arousal for fear of imminent danger, in contrast it could be explained that finally tying down the girl rises arousal in the sense of excitement for a possible positive outcome. Finally the short duration of the instance could be a reason for mistakes in analysis or noise from the stage before. This particular instance needs to be analysed further to spot the reason for this sudden rise. Perhaps more test subjects would be required and questioning the viewers directly about this specific point might be shine more light on this event. In general this does not follows HYPOTHESIS 5 for RECOVERY.

3. 1:48:10 to 1:49:25 shows a steady heavy drop that ends in one of the lowest points in the whole graph. The scene shows the girl calming down, the priests wrapping her in a blanket and both priest outside taking a break after the exorcism. This is perhaps the scene of slowest rhythm in the whole 15 minutes and it follows one of the most fastest in rhythm, which could explain the steady heavy drop as arousal lowers suddenly. This follows HYPOTHESIS 5 for RECOVERY successfully.

#### 5.2.2.4 Graph Analysis: "Jaws 4: The Revenge"

Shows a starting drop. A general rise with some big mountains, ululation in the middle, followed by two big drops in the middle. Rise back to middle, ululates, drops and finally rises until the end.5.4



 $\boxtimes$  5.4: Normalized stage graph of " Jaws 4". Stages colored.

For BACKGROUND we find three instances.

- 1. 0:00:00 to 0:00:14 shows ululation. Starting credits. Follows HYPOTHESIS 1.
- 2. 0:02:44 to 0:08:34 shows big drop, rising ululation. Christmas shopping. Follows HYPOTHESIS 1 in part.
- 3. 0:10:57 to 0:15:00 shows three rises with falls, and a big drop in the middle. The rises correspond to shots of strong emotional material, they are respectively: crying with his mother and running around the beach in freedom. They could relate to high arousal/valence. The drop refers to an argument between mother and son. Follows HYPOTHESIS 1 in part, but the drop and rises are too big showing that they affected viewers even more than the shark attack.

#### For TERROR we find three instances:

- 1. 0:00:14 to 0:02:44 show two very high rises, gets progressively bigger. The film shows starting credits, underwater "shark camera" and classical suspense music. Follows HYPOTHESIS 2.
- 2. 0:08:34 to 0:08:44 small drop. Underwater "shark camera" and suspense BGM. Does not follows HYPOTHESIS 2, consider HYPOTHESIS 6 for short duration.
- 3. 0:09:20 to 0:09:22 sudden drop. Underwater "shark camera" and suspense BGM. Does not follows HYPOTHESIS 2, consider HYPOTHESIS 6 for short duration.

#### For HORROR we find two instances:

- 1. 0:08:44 to 0:08:50 shows straight line. Film shows sudden shark attack. Does not follow HYPOTHESIS 3, consider HYPOTHESIS 6 for short duration.
- 2. 0:09:22 to 0:09:35 shows a sudden small rise. Film shows sudden shark attack. Follows HYPOTHESIS 3 but rise too small to be conclusive. Reasons could include lack of startle for viewers or noise by HYPOTHESIS 6 for short duration.

#### For REPULSION we find two instances:

- 1. 0:08:50 to 0:09:20 we find a sudden heavy drop. The film shows a man covered in blood, having have losted his arm. This follows HYPOTHESIS 4 for REPULSION.
- 2. 0:09:35 to 0:10:57 we find a small rise followed by a sudden very heavy drop. The film shows a slowly sinking ship, log and man. Next it shows a scene where the dead body of the man is shown to her mother for ID. The rise is not conclusive, but the drop follows HYPOTHESIS 4 for REPULSION.

# 第6章

# Conclusion

We successfully created a basic and objective system capable of identifying cues specific to different scene types, namely "Stages", in order to compare scenes found in Horror movies (3). We then tested this system against film analysis for a selection of 9 different horror films, determining percentage of pre-established "Stages" on films and how they vary in usage in time(4). We further revised our system by comparing our analysis to user tests involving Heart Rates to identify levels of arousal and valence(5).

On the analysis of films we concluded that the "Stages by cues" system was enough to give us a rough yet effective idea of percentages of suspense, terror and horror in movies. Unfortunately we found that when dealing with time specific usage of stages a more extensive industry research was required to find significant similarities in films. Our analysis showed interesting results including how horror films that ranked high in reviews and had higher grossing showed more tendencies to the use of terror (suspense) in contrast to the lowest grossing and lowest ranking films that depended more on horror (startle) and repulsion (gore).

These are satisfactory results considering that the main idea for the "Stages" was strongly based on concepts proposed by Stephen King he who once claimed: ""I recognize terror as the finest emotion and so I will try to terrorize the reader. But if I find that I cannot terrify, I will try to horrify, and if I find that I cannot horrify, I'll go for the gross-out. I'm not proud." This shows that the ideals of TERROR above HORROR above REPULSION might have an objective claim and could actually be directly related to the successfulness of a film.

On our second group of tests involving heart rate we confirmed the efficacy of our stages to affect human physiological reactions. The heart rate results were in correlation to previously established qualities of the stages in most cases. Unfortunately heart rate samples for the stages of terror(suspense) and background(narrative) showed unexpected

results in many cases, and it was determined that both a more cut-specific analysis and deeper understanding and definition for this stages was required.

We rationalize that further similar researches should consider bigger test groups in order to reach more conclusive data. Also an analysis that included a more extensive amount of movies could yield more reliable results that represented industry tendencies. We also deem necessary an analysis focused on sub-genre or era comparison in order to further understand the limits of a similar system. A similar research should also consider the use of different and more physiological input measures to generate more reliable results in arousal and valence identification.

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Appendix

# 付録 ${f A}$ ${f Appendix}$

#### $\boxtimes$ A.1: Appendix 1: Spreadsheet data for the film: "Halloween". (1/2)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
0-00-00	0-05-57	intro and stuff	TER	Obstruction, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Conversation (Anxiety), Ambient (Anxiety)	michael! attacks
0.00.00	0.00.01	Intio and stair	ILIX	Obstruction, Rhythm (Fast), Presence (Direct), Contact, Startle, Realization, Repulsion	Rhythm (Rising), Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle, Repulsion	ITIICITACI: ALLACKS
0:05:57	0:06:30	stab stab	HOR	(Psychological) Safety Zone, Rhythm (Slow), Presence (Others),	(Psychological)	is that you michael
0:06:30	0:07:00	akid?	REP	Realization, Repulsion (Psychological)  Obstruction, Safety Zone, Rhythm (Slow),	Rhythm (Slow), Rhythm (Rising), Conversation (Anxiety), Conversation (Realization), Repulsion (Psychological) Rhythm (Slow), Conversation (Safety), Conversation	change to future
0:07:00	0:09:16	driving in the night	BG	Presence (Others)	(Anxiety), Ambient (Anxiety), Ambient (Safety)	wandering crazies
0:09:16	0:09:57	main gate, wandering crazies	TER	Obstruction, Danger Zone, Presence (Indirect)	Rhythm (Rising), Conversation (Anxiety), Conversation (Realization), Ambient (Anxiety)	crazy rides on
		crazy attack	HOR	Obstruction, Danger Zone, Rhythm (Fast), Presence (Indirect), Presence (Direct), Contact, Startle, Realization, Repulsion (Social)	Rhythm (Rising), Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle	auty nass sn
		are u alrite?	REC	Obstruction, Danger Zone, Presence (Others), Realization	Rhythm (Slow), Rhythm (Rising), Conversation (Anxiety), Conversation (Realization), Ambient (Danger)	change to future
0-44-07	0-40-44	intro scene, (anxiety music, but the rest is	DO	Outstand Torres Dhadhar (Olava)	Distribute (Distribute) Communication (Cofets) Applicate (Cofets)	
		super BG)	BG	Safety Zone, Rhythm (Slow) Obstruction, Rhythm (Slow), Presence (Direct),	Rhythm (Rising), Conversation (Safety), Ambient (Safety)	wella dude looking
0:13:44	0:13:49		HOR	Startle Obstruction, Pre-established Danger, Presence	Rhythm (Slow), Conversation (Anxiety), Startle Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	
0:13:49	0:14:28	I see you	TER	(Indirect), Presence (Others)	(Safety), Conversation (Anxiety), Ambient (Safety)	I con you from the
0:14:28	0:15:38	classes, doctors fight,	ВG	Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Safety Zone, Pre-established Danger,	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety), Ambient (Safety) Rhythm (Rising), Abnormal Effects (Anxiety),	i see you from the window
0:15:38	0:16:03	from across the street	TER	Presence (Indirect)	Conversation (Safety), Ambient (Safety)	
		fate never changes	REC	Safety Zone, Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Ambient (Safety) Rhythm (Slow), Conversation (Safety), Conversation	
	0:17:17		BG	Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Rhythm (Slow), Presence (Direct),	(Anxiety), Ambient (Safety) Rhythm (Rising), Abnormal Effects (Anxiety),	
		dont run kid	HOR	Contact, Startle Obstruction, Safety Zone, Pre-established Danger,	Conversation (Anxiety), Startle Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	
		I see you kid? you must be ready for	TER	Rhythm (Slow), Presence (Indirect)	(Safety)	
	0:19:32	found the car and	BG	Safety Zone, Rhythm (Slow), Presence (Others) Safety Zone, Rhythm (Slow), Presence (Indirect),	Rhythm (Slow), Conversation (Anxiety), Ambient (Safety)	
		dead body	TER	Realization, Repulsion (Physical)	Rhythm (Rising)	school stuff
0:19:52	0:21:22	after school	BG	Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Safety Zone, Pre-established Danger,	Rhythm (Slow), Conversation (Safety), Ambient (Safety) Rhythm (Rising), Conversation (Safety), Conversation	weird car
	0:22:13 0:23:35	car in driveway	TER BG	Presence (Indirect), Realization Safety Zone, Rhythm (Slow), Presence (Others)	(Anxiety), Ambient (Safety) Rhythm (Slow), Conversation (Safety), Ambient (Safety)	car gone, bgm down
0-22-35	0-25-08	guy was there	TER	Obstruction, Safety Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Presence (Others), Realization	Rhythm (Rising), Conversation (Anxiety), Ambient (Safety)	
0:25:08		guy was triale	HOR	Obstruction, Rhythm (Slow), Presence (Direct), Contact, Startle	Rhythm (Slow), Startle	
		excuse me lory	REC	Safety Zone, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Conversation (Realization), Ambient (Safety)	
0:25:31		excess the lory	BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety), Ambient (Safety)	
0.23.31	0.20.33		ь	Obstruction, Safety Zone, Pre-established Danger,	Rhythm (Rising), Conversation (Anxiety), Ambient	phone ring, drop in bgm, anny on the
0:26:35	0:27:21		TER	Rhythm (Slow), Presence (Indirect), Startle	(Safety) Rhythm (Slow), Conversation (Realization), Ambient	phone
		anny was that u	REC	Safety Zone, Rhythm (Slow), Realization Obstruction, Safety Zone, Pre-established Danger,	(Safety)	change of scene
0:28:04	0:29:05	checking the	TER	Presence (Others)	Rhythm (Rising), Ambient (Anxiety), Ambient (Safety) Rhythm (Slow), Conversation (Safety), Conversation	
0:29:05	0:30:34	graveyard	BG	Rhythm (Slow), Presence (Others) Rhythm (Slow), Presence (Indirect), Presence	(Anxiety), Ambient (Safety) Rhythm (Rising), Conversation (Anxiety), Repulsion	grave open
		grave open	TER	(Others), Realization, Repulsion (Social)	(Social)	
		smokin pot	BG	Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Conversation (Safety) Rhythm (Rising), Conversation (Anxiety), Ambient	
0:34:25			TER	Rhythm (Slow), Presence (Indirect)	(Danger)	tru the window!
	0:38:24		HOR	Obstruction, Rhythm (Fast), Startle Obstruction, Rhythm (Slow), Presence (Others), Realization	Rhythm (Fast), Conversation (Anxiety), Startle Rhythm (Slow), Conversation (Safety), Conversation (Realization)	
				Obstruction, Pre-established Danger, Presence		conversation with kiddy
		the blackest eyes whats the buggyman?	TER BG	(Others) Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Rising), Conversation (Anxiety) Rhythm (Slow), Conversation (Safety)	kid
0:41:05	0:41:28		TER	Obstruction, Pre-established Safety, Presence (Indirect), Presence (Others), Repulsion (Social)	Rhythm (Rising), Conversation (Anxiety)	
0:41:28	0:42:00	you are going to the ball	ВG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	killer in the road
0-42-00	0-42-55	hugayman is sutside	TED	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Presence (Others),	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Conversation (Realization), Ambient (Anxiety)	
		buggyman is outside	TER	Realization Obstruction, Rhythm (Slow), Presence (Direct), Contact, Startle, Repulsion (Social)	Rhythm (Fast), Ábnormal Effects (Anxiety), Conversation	
0:44:04		doggy dies	BG	Safety Zone, Rhythm (Slow), Presence (Others)	(Anxiety), Startle Rhythm (Slow), Conversation (Safety), Conversation (Anxiety)	
		anny paul called	TER	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)		
		paul called	BG	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	killer in the back
				Obstruction, Pre-established Danger, Presence		MILE DECK
		on your back talking with paul on	HOR	(Indirect), Presence (Direct), Startle Obstruction, Pre-established Safety, Rhythm	Rhythm (Rising), Conversation (Safety), Startle Rhythm (Slow), Conversation (Safety), Ambient	
u:49:36	0:50:48	the phone	BG	(Slow), Presence (Others) Obstruction, Danger Zone, Pre-established Danger,	(Anxiety), Ambient (Safety)	
0:50:48	0:51:00		HOR	Rhythm (Slow), Presence (Direct), Presence (Others), Startle	Rhythm (Rising), Abnormal Effects (Anxiety), Ambient (Safety), Startle	

## $\boxtimes$ A.2: Appendix 1: Spreadsheet data for the film: "Halloween".(2/2)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
:51:00	0:52:14		BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	
52:14	0:53:34		TER	Rhythm (Slow), Presence (Indirect)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger,	District (Foot) Almonios (Aminto) Communication	
53·3 <i>1</i>	0:54:18		HOR	Rhythm (Fast), Presence (Direct), Contact, Startle, Repulsion (Physical)	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle	back to the kilds
	0:55:13		BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	Daux to the Nius
54.10	0.00.10		ВО	Obstruction, Pre-established Danger, Presence (Others), Repulsion (Physical), Repulsion	Talyum (Glow), Gorrersaust (Galety), Ambiant (Galety)	
55:13	0:55:31		REP	(Psychological)	Rhythm (Slow), Rhythm (Rising), Ambient (Safety)	
55:31	0:55:46	the buggyman is outside!	HOR	Obstruction, Rhythm (Fast), Presence (Others), Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Startle, Repulsion (Social)	
55:46	0:56:12	nobody believes me	BG	Safety Zone, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Conversation (Realization), Ambient (Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Conversation (Anxiety), Ambient	
	0:57:06		BG	Presence (Others)	(Anxiety)	
7:06	0:57:09		HOR	Obstruction, Danger Zone, Contact, Startle Obstruction, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Startle Rhythm (Slow), Conversation (Safety), Conversation	
57:09	0:58:20		REC	Realization Obstruction, Danger Zone, Rhythm (Slow),	(Anxiety), Conversation (Realization) Rhythm (Slow), Conversation (Safety), Ambient	
58:20	1:00:00	lets rip clothes off	BG	Presence (Others)	(Anxiety), Ambient (Safety)	
				Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Presence (Others),		
00:00	1:00:20	can I watch?	TER	Repulsion (Psychological) Safety Zone, Pre-established Safety, Rhythm	Rhythm (Rising), Conversation (Safety)	
00:20	1:03:12		BG	(Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	
03:12	1:03:17	shadow on the wall	HOR	Obstruction, Danger Zone, Pre-established Danger, Presence (Indirect), Presence (Others), Startle	Rhythm (Slow), Rhythm (Fast), Conversation (Safety), Startle	
N3·17	1:04:22		BG	Safety Zone, Pre-established Danger, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
				Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	
04:22	1:05:14		TER	Rhythm (Slow), Presence (Indirect) Obstruction, Danger Zone, Rhythm (Fast),	(Anxiety)	
05:14	1:05:50		HOR	Presence (Direct), Contact, Startle, Repulsion (Psychological)	Rhythm (Fast), Abnormal Effects (Anxiety), Startle	
03.14	1.05.50		HOIX	Obstruction, Danger Zone, Rhythm (Slow),	Triguiin (rast), Abhornai Enecis (Aralety), Starte	
05:50	1-06-05	stare at body (EH MAH GERD!)	REP	Presence (Direct), Repulsion (Physical), Repulsion (Social)	Rhythm (Slow), Repulsion (Physical), Repulsion (Social)	
00.00	1.00.00	W T CLI (B.)	1 (_1	Obstruction, Danger Zone, Pre-established Danger,		
06:05	1:07:38	ahost	TER	Rhythm (Slow), Presence (Indirect), Repulsion (Psychological)	Rhythm (Slow), Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Safety), Conversation (Anxiety)	
		3		Danger Zone, Pre-established Danger, Rhythm	, , , , , , , , , , , , , , , , , , , ,	
				(Fast), Presence (Direct), Contact, Startle, Realization, Repulsion (Physical), Repulsion	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
07:38	1:08:10	death by tel cord	HOR	(Psychological) Obstruction, Danger Zone, Pre-established Danger,	(Anxiety), Startle, Repulsion (Psychological)	
				Rhythm (Slow), Presence (Indirect), Abnormal	Rhythm (Slow), Rhythm (Rising), Conversation (Anxiety),	
	1:10:29	anny??	TER	Effects (Anxiety)	Ambient (Anxiety)	
10:29	1:10:51	going to the house	BG	Safety Zone, Rhythm (Slow) Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Ambient (Anxiety)	
10:51	1:15:39	going to the house next door	TER	Rhythm (Slow), Presence (Indirect)	(Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Startle, Repulsion (Physical),	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle, Repulsion	
15:39	1:16:04	on top	REP	Repulsion (Psychological)	(Psychological)	
-16:04	1:16:11		HOR	Rhythm (Fast), Startle	Rhythm (Fast), Abnormal Effects (Anxiety), Startle, Repulsion (Physical)	
. 10.0 1	1.10.11		1101	Obstruction, Pre-established Danger, Rhythm		
:16:11	1:16:20		REP	(Slow), Repulsion (Physical), Repulsion (Psychological)	Rhythm (Rising), Conversation (Anxiety), Repulsion (Psychological)	
				Obstruction, Danger Zone, Pre-established Danger,		michael #
:16:20	1:16:36	run away crying	TER	Rhythm (Slow), Presence (Indirect), Repulsion (Psychological)	Rhythm (Rising), Conversation (Anxiety), Repulsion (Psychological)	michael on the shadows
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Abnormal Effects		
16:36	1:16:50		HOR	(Anxiety), Contact, Startle, Repulsion (Physical)	(Anxiety), Startle	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Repulsion	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety), Repulsion	
16:50	1:19:27		HOR	(Psychological), Repulsion (Social)	(Psychological)	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal	Rhythm (Rising), Abnormal Effects (Anxiety),	
19:27	1:20:06	do as I say!!	TER	Effects (Anxiety)	Conversation (Anxiety), Ambient (Anxiety)	
:20:06	1:20:20	second attack	HOR	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Contact	(Danger), Startle	
20:20	1:20:59	hes dead? you cant kill the	REC	Obstruction, Rhythm (Slow), Realization Obstruction, Safety Zone, Rhythm (Slow),	Rhythm (Slow) Rhythm (Slow), Rhythm (Rising), Conversation (Safety),	
20:59	1:22:18	buggyman	TER	Presence (Indirect), Presence (Others)	Ambient (Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Abnormal Effects	Rhythm (Rising), Rhythm (Fast), Ahronnal Effects	
		onthecloset? really?		(Anxiety), Startle, Repulsion (Social)	(Anxiety), Startle	
24:19	1:25:42	stab! dead now?	REC	Obstruction, Safety Zone, Realization Obstruction, Danger Zone, Pre-established Danger.	Rhythm (Slow), Conversation (Realization) Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	u silly rabbit
25:42	1:26:26	hes like jesus!	TER	Rhythm (Slow), Presence (Indirect)	(Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle.	Rhythm (Fast), Startle, Repulsion (Physical), Repulsion	
:26:26	1:27:08		HOR	Repulsion (Physical), Repulsion (Psychological)	(Psychological)	shot dead
27:08	1:27:41		REC	Safety Zone, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Conversation (Realization)	
				Obstruction, Danger Zone, Pre-established Danger,		
27:41	1:31:07	the bodys gone!	TER	Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety), Repulsion (Psychological)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	end of movie

 $\boxtimes$  A.3: Appendix 2: Spreadsheet data for the film: "Scream".(1/5)

#	Start	End	Stage	Description	Cue(visual)	Cue(audio)
1	0:00:00	0:02:36		Intro to the movie	No presence, smiling, relaxed, flirting	Conversational, no presence, flirting, laugher
2	0:02:36			first call	Dark patio, closing doors (danger), fire, scared sad faced (fear) running around (danger) crying	"I want to know who im looking at", rising suspense music (anticipation), stressed conversation (anticipation)
3	0:07:33	0:07:50	RFP	boyfriend dies	dying face (mutilation)	sounds of mutilation, gutting (mutilation)
						what door am i at? (indirect presence) suspense music
5	0:07:50			final question  chair tru window	hiding in a corner (scared) door slams tru window (startle) running around the house (flight) fire (ambient hazard) slasher in the house (direct presence)	(anticipation) peak rise in music (rush) breaking glass sounds (startle, realization)
6	0:09:04	0:09:55	TER	out of the house	goes out of the house (ambient change) dark (visibility) car coming (safety) slasher inside the house (indirect presence)	panting (anxiety) rising suspense music (anticipation)
7	0:09:55	0:11:19	HOR	slash time	slasher turns around (startle) breaks window (startle) grabs arm (contact) running around short cuts (fast rythm) follows her (flight, danger) stabs her (pain, contact)	Girl screams (presence, danger) peak music (fast rythm) panting, crying (pain)
8	0:11:19			parents	house trashed fire (indirect presence) girl on the phone (anticipation) crying (anxiety) lighting (effects, startle)	rising suspense music (anticipation) anxious conversation (anxiety)
9	0:12:12	0:12:49	TER	bf on the window	alone in the house at night (prestablished danger) sounds out of the window (indirect presence) goes to the window to check (danger	breaking glass dog barking (indirect presence)
10	0:12:49	0:12:50		hey!	something grabs her (contact, startle)	scream (startle)
11		0:16:30		is just bf	just bf (realization, presence, safety) same location, conversation with dad(other presence), sex, relaxation, smiling, happy (safety)	no bgm (change, safety) romantic music (relaxation, safety)
12	0:16:30	0:21:55	BG	sex etv		
13	0:21:55	0:23:00	TER	alone	alone in the house (prestablished danger),	Low bass sound (noise, anticipation) rising suspense music (anxiety)
14	0:23:00	0:23:40	REC		sad, relaxed (safety) on the sofa (relaxation)	sad music starts (safety)
15					relaxed	conversational (safety) relaxed swearing (calmed)

 $\boxtimes$  A.4: Appendix 2: Spreadsheet data for the film: "Scream".(2/5)

						slasher voice
						(prestablished danger)
						rising suspense music
						(anxiety) im not randy
						(anticipation) where
					stressed face (anxiety) alone at	am i (indirect
16	0.24.25	0.27.26	TED	aida ay maata alaabar		
16	0:24:35	0:27:26	IER	cidney meets slasher	night (dark, prestablished danger)	presence)
					slasher on screen (startle, direct	
					presence, realization) attacks,	
					kicks, falls down (danger, pain,	scream (startle)
					contact) running, falling, (fast	panting (flight) peak
17	0:27:26	0:28:40	HOR		rythm, flight)	music (fast rythm)
					boyfriend up the ladder (other	drop in sound (change,
18	0:28:40	0:28:50	REC	bbbf	presence, safety)	safety)
10	0.20.10	0.20.00	INLO	DDD1	drop of cellphone (realization)	peak music (fast rythm,
40	0.00.50	0.00.04	LIOD		running around, chased (flight, fast	danger) scream
19	0:28:50	0:29:24	HOR	cellphone!	rythm) mask on the front (startle)	(startle, danger)
					police on the door (other presence,	drop of sound (low
20	0:29:24	0:30:33	REC	cops	realization, safety) arrested (safety)	rythm, safety)
					relaxed, in group (safety) bright	pop music (safety,
21	0:30:33	0:36:13	BG		scenes (safety)	relaxed)
					(	hello cidney
						(realization, presence)
					worried feet (denger) close up (feet	
00	0.00.40	0.00.47	TED		worried face (danger) close up (fast	
22	0:36:13	0:36:47	IEK		rythm)	(anticipation, anxiety)
						Normal sounds,
						conversational (safety)
					Daylight, morning, groups, light,	ballad, rock, action
23	0:36:47	0:45:00	BG	monrning at school	school, (relaxed, safety)	music (safety)
					alone (prestablished danger)	whisper (indirect
					scared face close up(realization,	presence) rising
					anxiety, fear) boots on the floor	suspense music
24	0:45:00	0:46:05	TED	toilet talk	(indirect presence)	(anxiety)
24	0.45.00	0.40.03	ILIX	tollet talk	(indirect presence)	
						scream (startle)
		0 40 44			slasher comes out of toilet (startle,	panting (flight) peak
25	0:46:05	0:46:11	HOR	toilet killer	direct presence) attacks (danger)	music (fast rythm)
					goes out into the hallway (safety)	
					people there (other presence)	drop of sound (low
26	0:46:11	0:46:19	REC	out	bright	rythm, safety)
						Normal sounds,
27	0:46:19	0:49:10	BG	morning	Daylight, No presence	conversational,
					,g	rising suspense music
						(anxiety) knock on
					mack on caroon (prostablished	
20	0.40-40	0.50-54	TED	dina atau dis sub	mask on screen (prestablished	door (indirect
∠δ	0:49:10	0:50:54	IEK	director death	danger) looking around (anxiety)	presence)
					slasher on screen (startle, direct	screams (startle,
					presence, realization) attacks,	danger, pain) peak
					stabbed. death (danger, pain,	music (startle,
29	0:50:54	0:51:10	HOR	director death	contact) fast cuts (rythm)	realization, fast rythm)
30	0:51:10	0:51:45			daylight, group, relaxed	conversational (safety)
	0	0			y 13.11, 3. 1 1.p., 1 0.00 to 0.	rising suspense music
						(anxiety) stressed
31	0:51:45	0:52:26	TED		etroseod faco close un/anvieta	conversation (
31	0.51.45	0.52.20	IEK		stressed face close up(anxiety)	CONVENSATION (
00	0.50.00	0.50.00	LICE		slasher on the bush (direct	miles in me alle ( ) () )
32	0:52:26	0:52:28	HOR		presence, startle)	pike in music (startle)
						conversational, no
33	0:52:28	0:59:35	BG		daylight, relaxed, partying, groups,	bgm, rock music
						scream, pike music
34	0:59:35	0:59:40	HOR	60	cop on screen (startle)	(startle)
-			-	:	. , ,	

 $\boxtimes$  A.5: Appendix 2: Spreadsheet data for the film: "Scream".(3/5)

			ĺ			
						music slowly lowers (relaxation, realization)
						conversational, flirting
35	0:59:40	1:00:20	DEC.		it was the cop (realization, safety)	(safety)
33	0.59.40	1.00.20	NEC		it was the cop (realization, salety)	rock music,
36	1:00:20	1:02:16	B.C		partying, groups, relaxed, flirting	conversational
50	1.00.20	1.02.10	ВС		door closes (indirect presence)	Conversational
					alone in the dark (prestablished	
					danger, darkness) door locked	
					(danger, anxiety) slasher on screen	rising suspense music
37	1:02:16	1:03:45	TER	girl on the hang	(but no realization)	(anxiety)
0.	1102110	1.00.10		girron alo nang	slasher grabbing pulls out knife	(di buoty)
					(realization, danger, contact,	
					presence) struggle (contact,	
					danger) slashes her (pain, contact)	
					running, crawling, stuck (fast rythm,	
					danger) slasher pulls up hanger	pike in music (startle,
					door killing her (pain, death,	fast rythm) screams,
					danger) sparks and fast cuts	grunts, swearing (fast
38	1:03:45	1:04:58	HOR		(effects, fast rythm)	rythm, pain)
						rock music,
					partying, groups, relaxed, flirting,	conversational,
39	1:04:58	1:11:08	BG		sex, bright lights	laughing, flirting
						banging, scream
40	1:11:08	1:11:10			someone outside the ban(startle)	(startle)
41	1:11:10	1:11:34	REC		was the cop (realization)	drop in bgm (safety)
					groups, sex, movie, relaxation,	conversational,
42	1:11:34	1:17:10	BG		smiling	laughing,
40	4 47 40	4 47 45	TED		shadow on the wall (indirect	rising suspense music
43	1:17:10	1:17:15	IEK		presence)	(anxiety)
					billy attacked by slasher (presence,	
					pain, contact, startle) death, blood	
					(pain) running around, chased,	
44	1:17:15	1:18:45	⊔∩Р		grabbed, struggle (fast rythm, danger, contact)	pike music (startle)
45	1:17:15	1:18:50			slasher dissapeared (safety)	drop in bgm (safety)
40	1.10.45	1.10.50	INLC		mutilated body of girl (gore) face of	drop in bgm (salety)
46	1:18:50	1:19:00	REP		about to vomit girl (repulsion)	piking music (startle)
10	1.10.00	1.10.00			slasher comes out but boy cant see	pirang madio (danao)
					it (indirect presence) posed to kill	rising suspense music
47	1:19:00	1:19:35	TER		him (danger)	(anxiety)
					,	screaming for help
					girl running around (danger, fast	(startle, danger) pike
48	1:19:35	1:20:00	HOR		rythm)	music (fast rythm)
					both together (safety group) slasher	rising suspense music
49	1:20:00	1:20:16	TER		on screen (indirect presence)	(anxiety)
					slasher kills camera man (contact,	
					death, pain, startle) struggling	pike music (startle)
					inside ban (flight, fast rythm,	screams, grunts (pain,
50	1:20:16	1:20:55	HOR		danger)	startle)
					coming back in the dark, running,	
					gun out (danger, anxiety) cop	
					checking the house (anxiety,	
					danger) woman checking the ban,	
	4-00 55	4-00-00	TEC		blood on the floor (indirect	rising suspense music
51	1:20:55	1:22:32	IEK		presence, danger)	(anxiety)

 $\boxtimes$  A.6: Appendix 2: Spreadsheet data for the film: "Scream".(4/5)

					dude on the window (startle) blood	
					on the window (realization) camera	
					man on the window (startle)	scream (startle) peak
					accelerating car (fast rythm,	music (fast rythm)
					danger) car crashes (startle, pain,	swearing, screaming
52	1:22:32	1:23:30	HOR		fast rythm)	(danger, fast rythm)
					girl alone running around	
					(prestablished danger, anxiety) cop	rising suspense music
					on the door (safety) knife on the	(anxiety) calling out
					back (pain, realization, indirect	name, screaming
53	1:23:30	1:23:51	TER		presence)	(anxiety)
					slasher on screen (presence)	
- 4	4.00.54	4.04.00	LIOD		running around (danger, fast rythm)	pike music (fast rythm,
54	1:23:51	1:24:26	HOR		slasher has the keys (realization)	anxiety)
EE	4.04.00	4.04.50	TED		slasher goes off screen (indirect	drop of volume
55	1:24:26	1:24:53	IEK		presence)	(change, anxiety)
56	1.24.52	1:25:10	ПОВ		slasher on the back seat (startle,	rice of music (startle)
56	1:24:53	1.25.10	nor		danger) struggle (contact)	rise of music (startle)
					elacher goes off soroon (indirect	drop of volume (change, anxiety)
					slasher goes off screen (indirect	
					presence) people on screen hurt (pain, indirect presence) gun on	screaming, pleading
					hand (danger) both claim the other	(pain, anxiety) rising suspense music
57	1:25:10	1:26:04	TED		did it (indirect presence)	(anxiety)
31	1.20.10	1.20.04	ILIX		inside the house locked (safety)	(arixiety)
					boyfriend comes up (other	
58	1:26:04	1:26:43	REC		presence)	drop of music (safety)
00	1.20.0-	1.20.40	ILC		bf slowly turns with mad face	rising of music
59	1:26:43	1:26:49	TFR		(presence, realization)	(anxiety)
	1120110	1120110	. —. 、		shoots him (startle, realization,	screams (startle,
					pain) crashes down (pain, startle,	danger, pain) peak
					fast rythm) happy face of bf	music (startle,
60	1:26:49	1:26:55	HOR		(realization, danger)	realization, fast rythm)
					presence but no agression	rising suspense music
					(presence) slashers in real ID	(anxiety) stressed
					(realization) both criminals try to	conversation (anxiety)
					explain themselves (motive, safety)	promises of pain
					dad (danger) blaiming someone	(anticipation) drop of
61	1:26:55	1:31:00	TER		else (indirect presence)	bgm (safety, anxiety)
					stabs other (startle, pain) stabs the	rise of music (startle)
					other (pain, startle) fighting	screaming blabbling
62	1:31:00	1:32:30	HOR		(danger)	(danger, madness)
					out of screen (indirect presence) no	drop of music (safety)
					gun (realization) reporter with gun	rising music (anxiety)
63	1:32:30	1:33:23	REC		(safety)	conversational (safety)
	4.00 = =	4			kicks her (pain, startle) safety on	
64	1:33:23	1:33:30	HOR		(realization) falls to the floor (pain)	pike sound
					killers trying to kill her (indirect	
					presence) girl dissapears	rising music (anxiety)
					(realization) ringin phone (startle)	swearing, crashing
					girl calling her (anxiety, indirect	sound (anxiety) crying
					presence) dying killer (pain,	(anticipation, anxiety)
	4.00.00	4.05.51			realization) looking around	swearing (anticipation,
65	1:33:30	1:35:51	IER		(presence)	anxiety)
					comes out of closet with mask	
	4.05.54	4-00-00	LICD	co	(danger, pain, startle) stabs (pain,	grunt, scream (pain,
66	1:35:51	1:36:00	HUK	62	contact)	startle)
67	4.26.00	4.26.00	DEC		it was girl (other presence, safety)	drop of music (sefet )
	1:36:00	1:36:08	KEU		killer on the floor (safety)	drop of music (safety)

 $\boxtimes$  A.7: Appendix 2: Spreadsheet data for the film: "Scream".(4/5)

68				other killer comes in screen (startle, danger) struggle (danger, contact, fast rythm) tv falls on killer (pain, death, contact)	startle, fast rythm) screaming, grunts, crashing (fast rythm)
69	1:36:48	1:37:00	REC	killer death (safety)	drop of bgm (safety)
70	1:37:00	1:37:40	HOR	guy on screen (startle) small conversation (safety) punch on face (startle, contact, pain, danger) struggle, fights back, finger on wound, about to strike (contact, pain, danger, presence) shot by reporter (startle, pain)	rise of music (startle, pain, danger, fast rythm) screams, grunts, swearing (danger, fast rythm, pain)
71	1:37:40	1:38:27	REC	killer death (safety) reporter and friend on screen (other presence) finishes killer (safety)	drop of bm, conversational (safety)
				dad burst out of closet (startle, fast	wood crashing sounds,
72	1:38:27	1:38:30	HOR	rythm)	screams (startle)
73	1:38:30	1:38:45	REC	it was only dad (realization, safety)	drop of bm, conversational (safety) nice music (safety)
74	1:38:45	END	BG	ambulances, morning, many people (safety)	pop music (safety, relaxed)

### $\boxtimes$ A.8: Appendix 3: Spreadsheet data for the film: "Alien".(1/2)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
		Intro, Title	TER	Obstruction, Abnormal Effects (Anxiety)	Rhythm (Slow), Rhythm (Rising), Conversation (Safety)	Lights up, wake up
	0:12:05		BG	Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Danger Zone, Rhythm (Fast),	Rhythm (Slow), Conversation (Anxiety), Ambient (Safety) Rhythm (Rising), Abnormal Effects (Anxiety),	ship take off
		entering admosphere	TER	Abnormal Effects (Anxiety)	Conversation (Anxiety) Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
		hull breach	HOR	Danger Zone, Rhythm (Fast), Contact, Startle Obstruction, Danger Zone, Safety Zone, Rhythm	(Anxiety), Startle Rhythm (Slow), Conversation (Safety), Conversation	outside shot, relaxed
		go out 1st time	BG	(Slow), Presence (Others) Obstruction, Danger Zone, Rhythm (Slow),	(Anxiety), Ambient (Safety) Rhythm (Slow), Rhythm (Rising), Abnormal Effects	night sky, excursion
		alien ship, big guy	TER	Presence (Indirect), Abnormal Effects (Anxiety) Safety Zone, Pre-established Safety, Presence	(Anxiety), Conversation (Anxiety) Rhythm (Slow), Conversation (Safety), Conversation	
		ripley on ship	BG	(Others) Obstruction, Danger Zone, Presence (Indirect),	(Anxiety) Rhythm (Rising), Abnormal Effects (Anxiety),	
	0:33:00		TER	Abnormal Effects (Anxiety)	Conversation (Anxiety), Ambient (Anxiety)	hugger
	0:33:04		HOR	Danger Zone, Contact, Startle	Startle	outside shot, relaxed
.33:04	0:33:24	break	REC	Safety Zone, Rhythm (Slow) Danger Zone, Safety Zone, Rhythm (Fast),	Rhythm (Slow) Rhythm (Slow), Rhythm (Rising), Rhythm (Fast),	
		hugger acid	TER	Presence (Indirect), Startle	Abnormal Effects (Anxiety), Conversation (Anxiety)	
		it stopped	REC	Realization Obstruction, Safety Zone, Rhythm (Slow),	Conversation (Realization)	
	0:40:20		BG	Presence (Others)	Conversation (Safety)	
	0:41:22		TER	Obstruction, Presence (Indirect) Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Rising), Conversation (Safety) Rhythm (Slow), Conversation (Safety), Conversation	
		droid and nipley talk	BG	Realization	(Anxiety)	
	0:45:38		TER	Obstruction, Danger Zone, Rhythm (Slow)	Abnormal Effects (Anxiety), Conversation (Anxiety)	
	0:45:40 0:45:45		HOR REC	Startle Rhythm (Slow), Realization	Startle Conversation (Realization)	
				Obstruction, Pre-established Danger, Rhythm	Si Salasii (i i Salasii (ii ii i Salasii (ii ii i Salasii (ii ii i Salasii (ii ii	
	0:46:35		TER	(Slow)	Rhythm (Rising), Conversation (Anxiety)	
:46:35	0:46:40		HOR	Rhythm (Fast), Contact, Startle Safety Zone, Pre-established Safety, Presence	Startle	realize its dead
46:40	0:46:49		REC	(Others), Realization	Conversation (Realization)	examination begins
:46:49	0:53:00		BG	Safety Zone, Pre-established Safety, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
				Pre-established Danger, Presence (Indirect), Presence (Direct), Abnormal Effects (Anxiety),		
:53:00	0:54:33	chest buster	HOR	Contact, Startle, Repulsion (Physical), Repulsion (Social)	Rhythm (Fast), Conversation (Anxiety), Startle, Repulsion (Physical)	busty goes away
				Obstruction, Danger Zone, Presence (Others)	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation (Anxiety)	
.54.55	0.54.55	searching for monster	IER		(Anxiety), Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Safety), Conversation (Anxiety),	funeral scene
:54:55	0:57:22	funeral, tracking	BG	Obstruction, Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Danger Zone, Pre-established Danger,	Conversation (Realization), Ambient (Safety)	
·57·22	1-00-10	searching for monster	TED	Rhythm (Slow), Presence (Indirect), Presence (Others), Abnormal Effects (Anxiety)	Rhythm (Slow), Rhythm (Rising), Abnormal Effects	
		cat attacks	HOR	Danger Zone, Presence (Direct), Startle	(Anxiety), Conversation (Anxiety), Ambient (Anxiety) Rhythm (Fast), Startle	its the cat
		just the cat	REC	Obstruction, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Conversation (Realization)	
				Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	
		here kitty kitty cat attacks 2	TER HOR	Rhythm (Slow) Danger Zone, Rhythm (Fast), Startle	(Safety), Conversation (Anxiety), Ambient (Anxiety) Startle	cat startle just the cat again
		following the cat	REC	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Realization	Rhythm (Slow), Conversation (Safety), Conversation (Realization)	runs away
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Presence	Rhythm (Slow), Rhythm (Rising), Abnormal Effects	
:02:15	1:05:06	alien skin	TER	(Direct) Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Direct), Abnormal	(Anxiety), Conversation (Anxiety), Ambient (Anxiety)	alien attack
:05:06	1:05:16	alien kiss	HOR	Effects (Anxiety), Contact, Startle, Realization, Repulsion (Physical)	Rhythm (Rising), Rhythm (Fast), Abnormal Effects (Anxiety), Startle, Repulsion (Physical)	
				Obstruction, Danger Zone, Safety Zone, Pre- established Safety, Rhythm (Slow), Presence	Rhythm (Slow), Conversation (Safety), Conversation	
:05:16	1106159	talking about dead	BG	(Others) Obstruction, Danger Zone, Safety Zone, Pre-	(Anxiety), Conversation (Realization), Ambient (Anxiety)	
:06:59	1:08:03	does not compute	TER	established Safety, Rhythm (Slow), Presence (Others), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	
				Obstruction, Danger Zone, Pre-established Danger, Pre-established Safety, Rhythm (Slow), Presence		
:08:03	1:12:32	hunting	TER	(Indirect), Presence (Others), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	attack
:12:32	1:12:42	ALIEN!	HOR	Obstruction, Danger Zone, Presence (Direct), Contact, Startle	Abnomal Effects (Anxiety), Startle	
	1:17:14		ВG	Obstruction, Safety Zone, Pre-established Safety, Rhythm (Slow), Rhythm (Fast), Presence (Others)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety)	
				Obstruction, Danger Zone, Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety),	Rhythm (Rising), Abnormal Effects (Anxiety),	
:17:14	1:18:02	droiid mode	TER	Realization, Repulsion (Physical) Rhythm (Fast), Presence (Direct), Presence	Conversation (Anxiety) Rhythm (Rising), Rhythm (Fast), Abnormal Effects	
:18:02	1:20:08	droid attack	HOR	(Others), Contact, Startle, Realization, Repulsion (Physical), Repulsion (Psychological)	(Anxiety), Conversation (Anxiety), Startle, Repulsion (Physical)	its dead
		dead bots	REC	Safety Zone, Rhythm (Slow), Presence (Others), Realization	Rhythm (Ślow), Conversation (Safety), Conversation (Anxiety), Conversation (Realization)	
				Rhythm (Fast), Presence (Direct), Contact, Startle,		
:20:18	1:20:40	and again	HOR	Realization, Repulsion (Physical) Safety Zone, Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety), Repulsion (Physical),	Rhythm (Fast), Conversation (Anxiety), Startle Rhythm (Slow), Abnormal Effects (Anxiety), Conversation (Safety), Conversation (Anxiety), Startle, Repulsion	dead o
:20:40	1:23:23	fixing up bot	REP	Repulsion (Psychological) Safety Zone, Pre-established Safety, Rhythm	(Physical), Repulsion (Psychological)	
		blow up the ship	ВG	(Slow), Presence (Indirect), Presence (Others), Realization, Repulsion (Physical)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety), Ambient (Safety)	start up

 $\boxtimes$  A.9: Appendix 3: Spreadsheet data for the film: "Alien".(2/2)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
:24:46	1:27:03	start up, blow up		Obstruction, Pre-established Danger, Rhythm (Fast)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle	
27:03	1-27-∩4	crash of metal	HOR	Obstruction, Rhythm (Fast), Startle, Realization	Rhythm (Rising), Rhythm (Fast), Startle	
.27.00	1.27.04	oracii orinotai	11011	Obstruction, Rhythm (Fast), Presence (Others),	Rhythm (Fast), Conversation (Anxiety), Conversation	
:27:04	1:27:08	how u doing	REC	Realization	(Realization)	change to ripley
27:08	1:28:04	here kitty kitty	TER	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	
28:04	1:28:06	KITTY!	HOR	Obstruction, Presence (Direct), Contact, Startle	Startle	
				Obstruction, Pre-established Safety, Presence	Rhythm (Slow), Conversation (Anxiety), Conversation	
20.00	1.20.15	just the cat again	REC	(Others), Realization	(Realization)	
28:15	1:29:02		TER	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Danger)	alien attack
				Obstruction, Pre-established Danger, Rhythm		
-00-00	4-00-40	-11 1 4	LIOD	(Fast), Presence (Direct), Abnormal Effects (Anxiety), Contact, Startle, Realization, Repulsion	Rhythm (Rising), Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle, Repulsion	l
29:02	1:30:16	alien in the middle	HOR	(Physical)	(Psychological)	last scream of pain
		ripley to the rescue		Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	
:30:16	1:33:24	(not) escape	TER	(Anxiety), Repulsion (Physical)	Conversation (Anxiety), Ambient (Danger)	alien attack
				Obstruction, Pre-established Danger, Rhythm		
				(Fast), Presence (Indirect), Presence (Direct),	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	drop in bgm as she
:33:24	1:33:55	alien presence	HOR	Abnormal Effects (Anxiety), Startle, Realization	(Anxiety), Startle	goes away
		F		Obstruction, Danger Zone, Pre-established Danger,		5
				Rhythm (Fast), Presence (Indirect), Abnormal	Rhythm (Rising), Rhythm (Fast), Abnormal Effects	
33.55	1-36-13	ripley run! take off	TER	Effects (Anxiety)	(Anxiety), Conversation (Anxiety)	vapor
.55.55	1.30.13	Tipley fulls take off	ILIX	Obstruction, Danger Zone, Rhythm (Fast),	(Arixiety), Conversation (Arixiety)	vapoi
-00.40	4-00-04		LIOD	Presence (Indirect), Abnormal Effects (Anxiety),	Rhythm (Rising), Rhythm (Fast), Abnormal Effects	
:36:13	1:30:24	vapor startle	HOR	Startle	(Anxiety), Ambient (Danger), Startle	goes on
				Obstruction, Danger Zone, Pre-established Danger,		
				Rhythm (Fast), Presence (Indirect), Abnormal		
				Effects (Anxiety), Realization, Repulsion	Rhythm (Rising), Rhythm (Fast), Abnormal Effects	
:36:24	1:38:39		TER	(Psychological)	(Anxiety), Conversation (Anxiety), Ambient (Anxiety)	
				Obstruction, Safety Zone, Pre-established Safety,	Rhythm (Fast), Conversation (Safety), Ambient (Safety),	
:38:39	1:39:38	pew pew blows	HOR	Startle, Realization	Startle	
				Obstruction, Safety Zone, Rhythm (Slow),	Rhythm (Slow), Conversation (Safety), Conversation	
:39:38	1:40:24	I got you, you SOB	REC	Presence (Others)	(Realization), Ambient (Safety)	goes on
		lets go to sleep		Safety Zone, Pre-established Safety, Rhythm	,,(,)	5
40.24	1-42-23	(nargita time)	BG	(Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	alien was there!
		( gita arrio)	50	Obstruction, Pre-established Danger, Rhythm	1 a y a m (c.c.) y convolution (caloty); / a notal it (caloty)	and i wad a lord:
				(Fast), Presence (Direct), Abnormal Effects		
-12-22	1-//2-22	hello there	HOR	(Anxiety), Startle, Realization	Rhythm (Rising), Rhythm (Fast), Startle	hide and seek
.42.23	1.42.33	HEIIO LI IEI E	TION	Obstruction, Pre-established Danger, Rhythm	TV Iyu III (I Voll IY), FV IYU III (Fast), Statue	HIGE AND SEEK
					Distance (Distance) Abnormal Effects (Assists)	
:42:33	1:46:05	hide and seek, suit up	TER	(Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	
				Obstruction, Pre-established Safety, Rhythm		
				(Fast), Presence (Direct), Abnormal Effects	Rhythm (Rising), Rhythm (Fast), Abnormal Effects	
				(Anxiety), Contact, Startle, Repulsion	(Anxiety), Conversation (Anxiety), Ambient (Danger),	
46:05	1:47:50	to kill an alien	HOR	(Psychological)	Repulsion (Psychological)	blast off
		blast off, death of		Obstruction, Safety Zone, Rhythm (Slow),	Rhythm (Slow), Conversation (Realization), Ambient	
47.50	1:48:00		REC	Realization	(Safety)	final report
			. (_0	, tounizadori	Rhythm (Slow), Conversation (Safety), Conversation	горог с
					(Realization), Ambient (Safety)	

# $\ensuremath{\boxtimes}$ A.10: Appendix 4: Spreadsheet data for the film: "A Nightmare on Elm Street".(1/3)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
	0:01:04		REP			
0:01:04		intro scene, dina first	HOR	Obstruction, Danger Zone, Rhythm (Slow),	Rhythm (Slow), Rhythm (Rising), Abnormal Effects	
	0:01:56	dream	TER	Presence (Indirect), Abnormal Effects (Anxiety)	(Anxiety), Conversation (Anxiety), Ambient (Anxiety)	
		SHEEPS!sheeps?	HOR	Startle	Startle	
010 1158	0:02:00	sneeps?	REC	Realization Obstruction, Danger Zone, Rhythm (Slow),	Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	
0:02:00	0:03:09	dream continues	TER	Presence (Indirect), Abnormal Effects (Anxiety)	(Anxiety)	scratch sounds, scare
0:03:09	0:03:30	runnina	HOR			drop of bgm, realization
		sheeps?!	REC	Realization		
0:03:32	0-03-37		TER	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety)	scare from behind
0:03:37			HOR	Presence (Direct), Contact, Startle	Rhythm (Fast), Startle	wake up
		mom comes in, you		Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Conversation	
0:03:39	0:04:23	OK?	REC	Realization	(Realization)	change of scene rise in bgm, same
0:04:23		other chars,	BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	dream conversation
0-07-39		same dream, theres something out there	TER	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Conversation (Anxiety)	scary dude
		Something out there		Obstruction, Danger Zone, Rhythm (Fast),	rangum (rasing), conversation (ranacty)	Soary dude
0:09:20		- 1-201-14	HOR	Presence (Direct), Contact, Startle	Rhythm (Fast), Abnormal Effects (Anxiety), Startle	just the dude
0:09:23		a brilliant tackle moms bed, le sexy	REC	Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Realization)	rise in bgm, dream
0:09:48	0:12:15		BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Anxiety)	time
				Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	rise in bgm, freddy
0:12:15		dina second dream	TER	(Anxiety)	Conversation (Anxiety), Ambient (Anxiety)	appears
		chased by freddy, death outside of		Obstruction, Danger Zone, Pre-established Danger,		dran in ham, alau wall
0:15:53	0:17:28		HOR	Rhythm (Slow), Rhythm (Fast), Presence (Direct), Abnormal Effects (Anxiety), Contact, Startle	(Anxiety), Conversation (Anxiety), Ambient (Anxiety), Startle	drop in bgm, slow wall climbing death
				Obstruction, Danger Zone, Pre-established Danger,		_
				Rhythm (Fast), Presence (Indirect), Abnormal Effects (Anxiety), Contact, Repulsion (Physical),	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle, Repulsion (Physical), Repulsion	
0:17:28		tina slowly dies	REP	Repulsion (Psychological), Repulsion (Social)	(Psychological), Repulsion (Social)	change of scene
0-18-30	0:21:29	searching for assasin	BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	rise in bgm
0.16.30		walking down the	В	Pre-established Danger, Rhythm (Slow), Presence	Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	sudden appearance
0:21:29	0:21:54	street, werid fbi dudes	TER	(Indirect)	(Safety)	from behind
0:21:54	0:22:00		HOR	Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Startle	not going to hurt you!
		im not going to hurt		Safety Zone, Pre-established Safety, Rhythm		
0:22:00	0:22:06	you capture of guy, school	REC	(Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Realization)	change of scene
0:22:06	0:24:00		HOR	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Ambient (Safety)	nise in bgm
0-24-00	0-24-24	third dream, nancy	TER	Pre-established Danger, Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	tina on bags
0.24.00	0.24.24	u iii u u ieam, nai iey	ILIX	Repulsion (Physical), Repulsion (Psychological),	CONVERSALION (Anxiety)	una on bags
0:24:24	0:24:27		REP	Repulsion (Social)	Repulsion (Psychological), Repulsion (Social)	change to hallway
0:24:27	0:25:05	walk into hallway	TER	Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Ambient (Anxiety)	tina being dragged away
0-05-05		tina dead body	DED	Devide (Devided) Devide (Devided devided)	Dh. dans (Distan) Abaranası Effects (Assists)	h1.1
0125105	0:25:10	dragged into room	REP	Repulsion (Physical), Repulsion (Psychological) Pre-established Danger, Rhythm (Slow), Presence	Rhythm (Rising), Abnormal Effects (Anxiety) Rhythm (Rising), Conversation (Anxiety), Ambient	back to nancy
		runs after tina	TER	(Indirect), Abnormal Effects (Anxiety)	(Anxiety)	bump into random girl
0:25:26	0:25:30		HOR	Rhythm (Fast), Contact, Startle	Rhythm (Fast), Startle	wheres ur pass startle voice from
0:25:30	0:25:37		REC	Rhythm (Slow), Realization	Rhythm (Slow), Conversation (Realization)	behind
0-25-27		no running in the	REP	Rhythm (Slow), Presence (Direct), Repulsion (Physical), Repulsion (Social)	Rhythm (Slow), Conversation (Anxiety), Repulsion (Psychological), Repulsion (Social)	
0.25.57	0:25:50	Hallway	NEF	Obstruction, Pre-established Danger, Rhythm	(Fsychological), Repulsion (Social)	
0.05.50		down the stairs and	TED	(Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	
0:25:50		into the steam room	TER HOR	(Anxiety) Startle	Conversation (Anxiety), Ambient (Anxiety) Abnormal Effects (Anxiety), Startle	close up of freddy back to nancy
J.L.J. 10	J.L.J. 10			Obstruction, Danger Zone, Pre-established Danger,		a a six to man toy
0:26:49	0-26-58		TER	Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	freddy comes out
				Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	
0:26:58	0:27:05	freddy comes up	HOR	Rhythm (Fast), Presence (Direct), Startle	(Anxiety), Ambient (Anxiety), Startle	cuts himself
		cuts upon, worms		Obstruction, Pre-established Danger, Rhythm (Fast), Presence (Direct), Repulsion (Physical),	Abnormal Effects (Anxiety), Conversation (Anxiety),	
0:27:05	0:27:11		REP	Repulsion (Psychological), Repulsion (Social)	Repulsion (Physical)	attacks
				Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Startle, Realization,	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
0:27:11	0:28:20	freedy attacks	HOR	Repulsion (Psychological)	(Anxiety), Ambient (Anxiety), Ambient (Danger), Startle	wakes up in class
0-28-20	0-28-46	wake up in class	REC	Safety Zone, Rhythm (Slow), Presence (Others), Realization, Repulsion (Social)	Rhythm (Slow), Conversation (Safety), Conversation (Realization), Ambient (Safety), Repulsion (Social)	change of scene
		talking with dude on				nise in bgm, freddy
0:28:46	0:31:44		BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	song, falling asleep
0:31:44	0:32:30	bathtub song	TER	Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Safety)	hand from the water
		-		•	Rhythm (Slow), Conversation (Safety), Conversation	
0:32:30	0.32:47	mom calls her	REC	Rhythm (Slow), Presence (Others)	(Realization)	falls asleep again? bathtub starting
0:32:47	0:33:05	falling asleep again	TER	Pre-established Danger, Rhythm (Slow)	Rhythm (Rising), Abnormal Effects (Anxiety)	shaking
0:33:05	0-33-40		HOR	Danger Zone, Pre-established Danger, Rhythm (Fast) Presence (Direct) Contact, Startle	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety), Startle	im ok
0.33.05	0.55.40			(Fast), Presence (Direct), Contact, Startle Safety Zone, Pre-established Safety, Rhythm	Rhythm (Slow), Conversation (Safety), Conversation	im ok locks door removing
0:33:40		im ok mother	REC	(Slow), Presence (Others), Realization	(Realization)	rec
0:34:12		trying to stay awake, talking with bf	BG	Safety Zone, Pre-established Safety, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	nise in bgm, walking alone
0:37:12		J	TER	Obstruction, Danger Zone, Rhythm (Slow)	Rhythm (Rising), Abnormal Effects (Anxiety)	glenn comes out

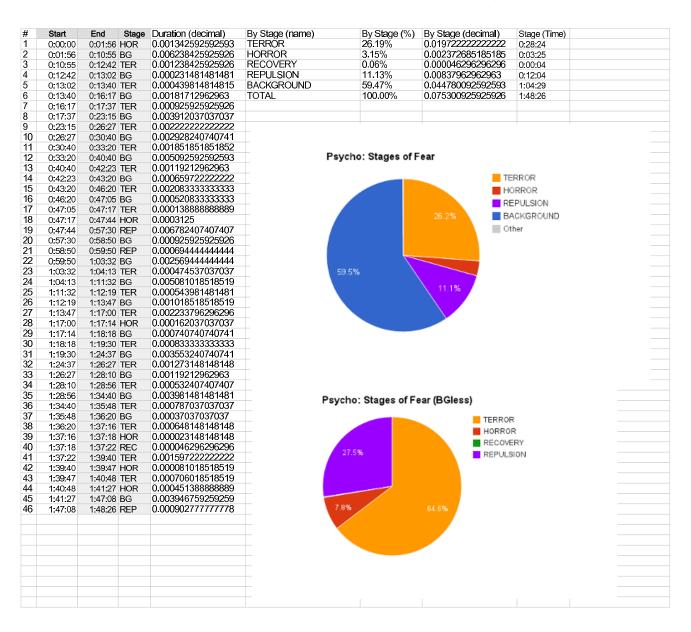
# $\boxtimes$ A.11: Appendix 4: Spreadsheet data for the film: "A Nightmare on Elm Street".(2/3)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
0:38:00	0:38:10		REC	Presence (Others), Realization Obstruction, Danger Zone, Pre-established Danger	Conversation (Realization) Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	goes on with nancy
0:38:10	0:39:45	walking alone at night	TER	Rhythm (Slow), Presence (Indirect)	(Anxiety)	freddy comes out
0-30-45	0:40:04		HOR	Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Repulsion (Social)	rob wakes up
	0:40:08		REC	Realization	Rhythm (Slow)	ghost comes out
		ah din ar arial		Repulsion (Physical), Repulsion (Psychological),	Repulsion (Physical), Repulsion (Psychological),	
0.40.06	0.40.26	dying girl	REP	Repulsion (Social) Obstruction, Danger Zone, Pre-established Danger,	Repulsion (Social) Rhythm (Rising), Abnormal Effects (Anxiety),	walks away
0:40:26	0:40:36	wake up!!	TER	Rhythm (Slow), Presence (Indirect)	Conversation (Anxiety)	freedy attack
0:40:36	0:40:53	freddy follows	HOR	Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety), Ambient (Danger), Startle	locks the door, drop of bgm
		,		Danger Zone, Rhythm (Slow), Presence (Indirect),	Rhythm (Slow), Rhythm (Rising), Abnormal Effects	- <b>-</b>
0-40-53	0-41-10	stuck at the stairs	REP	Abnormal Effects (Anxiety), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	(Anxiety), Conversation (Anxiety), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	save me from freddy
		otalit at a lo otalio		Danger Zone, Pre-established Danger, Presence	Rhythm (Fast), Abnormal Effects (Anxiety), Ambient	lock door, glenn
0:41:10	0:41:19	this is a dream he isnt	HOR	(Direct)	(Anxiety)	sleeping freddy jumps out of
0:41:19	0:41:29		REC	Rhythm (Slow), Realization	Rhythm (Slow), Conversation (Realization)	mirror
0-41-20	0-42-09	fraddy attacks	HOR		Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	woko un
		freddy attacks wakes up	REC	Rhythm (Fast), Presence (Direct), Contact, Startle Presence (Others), Realization	(Anxiety), Startle Rhythm (Slow), Conversation (Realization)	wake up gleen out the window
				Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Conversation	
0:42:40	0:43:32	go to the window	BG	Realization Obstruction, Danger Zone, Pre-established Danger,	(Realization)	freddy attacks rob
				Rhythm (Slow), Presence (Indirect), Abnormal	Rhythm (Rising), Abnormal Effects (Anxiety),	wakes up, attacked,
0:43:32	0:44:43	rob gets attacked	TER	Effects (Anxiety) Danger Zone, Pre-established Danger, Rhythm	Conversation (Anxiety), Ambient (Anxiety) Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	choked
0:44:43	0:45:10	dragged choked	HOR	(Fast), Presence (Direct), Contact, Startle	(Anxiety), Repulsion (Physical)	dies
				Rhythm (Slow), Presence (Others), Repulsion		
0:45:10	0:45:50	dead	REP	(Physical), Repulsion (Psychological), Repulsion (Social)	Rhythm (Slow), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	funeral scene
		rod funeral, clinic		Safety Zone, Pre-established Safety, Rhythm		rise in bgm, change of
U:45.50	0:48:28	scene	BG	(Slow), Presence (Others) Obstruction, Pre-established Danger, Rhythm	Rhythm (Slow), Conversation (Safety), Ambient (Safety) Rhythm (Rising), Abnormal Effects (Anxiety),	scene
		falls asleep in clinic	TER	(Slow), Presence (Others)	Conversation (Anxiety)	rise in everything
0:50:28	0:50:42	trashing in bed	HOR	Rhythm (Fast), Presence (Indirect), Contact, Startle Safety Zone, Pre-established Safety, Rhythm	Rhythm (Fast), Conversation (Anxiety), Startle	wakes up
0:50:42	0:50:53	wake up everything ok	REC	(Slow), Presence (Others)		NO! and cutted
				Safety Zone, Pre-established Danger, Rhythm (Slow), Presence (Others), Repulsion (Physical),	Rhythm (Slow), Conversation (Safety), Conversation	
0:50:53	0:51:24	cutted and stuff	REP	Repulsion (Psychological), Repulsion (Social)	(Anxiety), Conversation (Realization), Repulsion (Social)	change of scene
		confronting mother, mom talks about freddy, nancy and gleen plan on killing freddy, f.er falls		Safatu Zana Dra aetablishad Safatu Drasanaa	Dhythm (Slavy) Convergation (Safahy) Convergation	
0:51:24		asleep, everyone get ready to rumble,	BG	Safety Zone, Pre-established Safety, Presence (Others)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety), Ambient (Safety)	strange call
				Obstruction, Pre-established Danger, Rhythm	Dhythem (Dising) Ahmannal Effects (Anviets)	_
1:06:26	1:07:23	strange calls,	TER	(Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	tongue from phone ?!
			LIOD	Danger Zone, Pre-established Danger, Rhythm		
1.07.23	1:07:32		HOR	(Fast), Contact, Startle Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Fast), Startle	drop in bgm
				Rhythm (Slow), Presence (Indirect), Repulsion	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:07:32	1:08:22	locked door	TER	(Physical), Repulsion (Psychological), Repulsion (Social)	Conversation (Anxiety), Ambient (Anxiety), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	
		glenn gets dragged		Danger Zone, Pre-established Danger, Rhythm	Rhythm (Fast), Abnormal Effects (Anxiety), Ambient	2 611 1
1:08:22	1:08:40	down	HOR	(Fast), Presence (Direct), Contact, Startle Danger Zone, Pre-established Danger, Rhythm	(Anxiety), Startle	piles of blood
		blood flows up fills		(Fast), Repulsion (Physical), Repulsion	Rhythm (Fast), Repulsion (Physical), Repulsion	ambulance comes in,
1:08:40	1:09:08	ceiling ambulance comes	REP	(Psychological), Repulsion (Social)	(Psychological), Repulsion (Social) Rhythm (Slow), Conversation (Safety), Conversation	change of scene, the
1:09:08	1:09:53		BG	Safety Zone, Rhythm (Slow), Presence (Others)	(Anxiety), Ambient (Safety)	blood room
				Safety Zone, Presence (Others), Repulsion (Physical), Repulsion (Psychological), Repulsion	Rhythm (Rising), Conversation (Anxiety), Conversation (Realization), Repulsion (Physical), Repulsion	talking on the phone
1:09:53		blood from the ceiling talking nancy on the phone, nancy getting ready for freddy,	REP	(Physical), Repulsion (Psychological), Repulsion (Social)	(Realization), Repulsion (Friyacea), Repulsion (Psychological), Repulsion (Social)	with nancy
		talking with mom,		Safety Zone, Pre-established Safety, Rhythm		goes to sleep, change
1:10:18	1:15:25	getting ready to sleep,	BG	(Slow), Presence (Others) Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Conversation (Safety) Rhythm (Rising), Abnormal Effects (Anxiety),	of scnee
				Rhythm (Slow), Presence (Indirect), Abnormal	Conversation (Anxiety), Ambient (Anxiety), Ambient	
1:15:25	1:20:14	last dream	TER	Effects (Anxiety)	(Danger)	freddy comes out
					Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	falls out of the window, drop of bgm, change of
1:20:14	1:20:25	freddy follows around	HOR	Rhythm (Fast), Presence (Direct), Contact, Startle	(Anxiety), Ambient (Anxiety), Startle	scene
1:20:25	1:20:45		REC	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Anxiety), Ambient (Anxiety)	freddy comes out
				Obstruction, Pre-established Danger, Rhythm		,
1-20-45	1:20:57		HOR	(Fast), Presence (Direct), Contact, Startle, Repulsion (Physical)	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Startle	alarm clock, wakes up
				Safety Zone, Pre-established Safety, Rhythm	Rhythm (Slow), Conversation (Safety), Conversation	
1:20:57	1:21:23	wakes up crying	REC	(Slow), Presence (Others), Realization Obstruction, Danger Zone, Pre-established Danger,	(Realization), Ambient (Safety)	freddy comes out locks door removing
1-21-23	1:21:34		HOR	Rhythm (Slow), Startle	Rhythm (Fast), Abnormal Effects (Anxiety), Startle	hor
1-2 1-20		LIEL DIII	TER	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety),	rise in bgm, rushing
	1-24-50				Conversation (Anxiety), Ambient (Anxiety)	around
1:21:34		freddy out and down the stairs	HOR	Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Danger)	daddy I got him!!

# $\boxtimes$ A.12: Appendix 4: Spreadsheet data for the film: "A Nightmare on Elm Street".(3/3)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
				Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Conversation	nancy notices
1.23.41	1:24:21	daddy I got him!!!	REC	Realization	(Realization), Ambient (Safety)	something
				Danger Zone, Pre-established Danger, Rhythm		
				(Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:24:21	1:24:41		TER	(Anxiety)	Conversation (Anxiety), Ambient (Anxiety)	freddy attacking mama
				Danger Zone, Pre-established Danger, Rhythm	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
1:24:41	1:24:56	freddy on top of mama	HOR	(Fast), Presence (Direct), Contact, Startle	(Anxiety), Startle	mama dies slowly
				Rhythm (Slow), Presence (Direct), Presence		
		mama goes down		(Others), Repulsion (Physical), Repulsion	Rhythm (Slow), Conversation (Anxiety), Repulsion	everything ok up here?
1:24:56	1:25:24	slowly	REP	(Psychological)	(Physical), Repulsion (Psychological), Repulsion (Social)	drop in bgm
		crying, now do you		Safety Zone, Pre-established Safety, Rhythm	Rhythm (Slow), Conversation (Safety), Conversation	
1:25:24	1:26:00	belive me? im ok	REC	(Slow), Presence (Others), Realization	(Realization)	door closes, crazy face
		freddy coming up, i		Danger Zone, Pre-established Danger, Rhythm	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:26:00	1:27:23	know the secret	TER	(Slow), Presence (Indirect)	Conversation (Anxiety), Ambient (Anxiety)	last attack
1:27:23	1:27:26		HOR	Contact, Startle	Startle	fades away?
		new day, happy				weird stuff going on
1:27:26	1:28:28	thoughts	REC	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	with the car
		_		Obstruction, Pre-established Danger, Rhythm		
				(Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:28:28	1:28:55		TER	(Anxiety)	Conversation (Anxiety), Ambient (Anxiety)	punch tru window
				Danger Zone, Pre-established Danger, Rhythm		drop in bgm, freddy
1:28:55	1:29:02		HOR	(Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Startle	song
		closing credits freddy		Obstruction, Rhythm (Slow), Repulsion	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	_
1:29:02	1:29:27	song	REP	(Psychological), Repulsion (Social)	(Anxiety), Repulsion (Psychological), Repulsion (Social)	happy music
		ends credits, rock				
1:29:27	1:31:23	song	BG	Rhythm (Slow)	Rhythm (Slow)	end of movie

☒ A.13: Appendix 5: Spreadsheet data for the film: "Psycho".(1/1)



 $\boxtimes$  A.14: Appendix 6: Spreadsheet data for the film: "Paranormal Activity".(1/2)

#	Start	End	Stage	Description	Cue(visual)	Cue(audio)	Ends	TEST
	0.00.00	0 00 00		Intro to the	- · · · · · · · · · · · · · · · · · · ·	Normal sounds,	When he turns off the light	- A
1	0:00:00	0:08:00	BG	movie	Daylight, No presence, smiling	conversational,	(Day #1)	PA_1
					Ambient change (dark), sleeping	Low bass sound (noise), steps heard		
2	0:08:00	0:09:20	TER	First night	(weakness), clock stops (anticipation)	(presence)	Morning comes	PA_1
	0.00.00	0.03.20	ILIX	riistriigiit	Daylight, No presence, joking	(presence)	Worling comes	PA_1,
3	0:09:20	0:22:10	BG	Physic Conv	around,	conversational,	Night comes	PA_2
_				,	Ambient change (dark), sleeping			
					(weakness), clock stops			
					(anticipation), door moves	Low bass sound		
4	0:22:10	0:23:16	TER	2nd night	(presence)	(noise), door sounds	Alarm clock	PA_2
_	0.22.46	0:24:00	DEC	Marnina	Becomes morning on same	Alarm alask (asfati)	Change of leastion	DA 2
5	0.23.10	0.24.00	KEC	Morning	location (situational, safe) Daylight, No presence, playing	Alarm clock (safety) Normal sounds,	Change of location	PA_2
6	0:24:00	0:25:30	BG	Morning	guitar,	conversational,	Screams	PA 2
	0.200	0.20.00			ga.a.,	Girl screams	0.040	
7	0:25:30	0:25:50	HOR	spider	Running around (danger)	(presence, danger)	It's a spider	PA_2
					Small spider (realization) same	turns Conversational		
8	0:25:50	0:26:35	REC	spider	location (situational)	(safety)	Change of location	PA_2
					Daylight, No presence, relaxed		L	PA_2,
9	0:26:35	0:29:55	BG	Morning	state	conversational	Night comes	PA_3
					Ambient change (dark) sleeping (weakness) clock stops	Low bass sound (noise) whispers heard		
10	0.29.55	0:30:21	TER	night	(weak less) clock stops (anticipation)	(presence)	Wakes up from nightmare	PA_3
10	0.20.00	0.00.21	I LIX	riigiii	Rises suddenly (startle), goes to	Screams nightmare	vales up nom migramare	17_0
					check (danger), becomes fast	(startle) tud sound		
11	0:30:21	0:32:00	HOR	wakes up	pased movement (danger)	(presence)	Morning comes	PA_3
					Daylight, No presence, relaxed	Normal sounds,		
12	0:32:00	0:35:45	BG	morning	state	conversational,	Night comes	PA_3
					Ambient change (dark), sleeping			
					(weakness), clock stops	Low bass sound		DA 2
12	0:35:45	0.36.48	TER	night	(anticipation), wakes up (anticipation)	(noise), steps heard (presence)	bird scream	PA_3, PA_4
10	0.00.40	0.50.40	ILIX	riigiit	start moving fast on the bed	monster-bird-like	biid scieam	17_4
					(startled) fast movement go	scream followed by		
					downstair (danger) moving	loud tud (startle,		
14	0:36:48	0:39:23	HOR	bird scream	candellier downstairs (presence)	presence)	Morning comes	PA_4
						Normal sounds,		
15	0:39:23	0:42:40	BG	monming	Daylight, No presence	conversational,	night comes	PA_4
					Ambient change (dark), sleeping (weakness), clock stops			
					(anticipation), wakes up and			
					remains standing then walks away	Low bass sound		
					(abnormal, presence) standing	(noise) angry/confused		
16	0:42:40	0:47:40	TER	sleep walking	outside (abnormal) tv on (presence)	conversation (anxiety)	day comes	PA_4
						Normal sounds,		
						conversational,		D4 4
17	0:47:40	0.51.50	DC.	morning guilo	Doublight No processo	stressed conversation	agunda	PA_4, PA_5
17	0.47.40	0.51.50	ВG	morning, quija	Daylight, No presence quija moves, curtain moves, fire	(yet safety) tud sounds, low bass	sounds	PA_S
18	0:51:50	0:53:05	TFR	quija moving	(presence)	(presence, noise)	they come back	PA_5
	0101100	5.05.00	1 \	42112 111241118	No movement, they come back	(p. 5001100, 110100)	a.e., como bacon	0
					(safety) same location different			
19	0:53:05	0:53:55	REC	quija moved!	situation	normal sounds (safety)	slam door	PA_5
					Daylight, go to sleep but no clock	normal sounds,		
20	0:53:55	1:01:34	BG	talk with sis	(safety), relaxed	conversational	night comes	PA_5
					Gets dark (ambient change), clock			
					starts (pre-established danger), sleeping (weakness), clock stops			
					(anticipation), wakes up discover			
					foot steps (presence) leading to	tud sounds, low bass		PA 5,
21	1:01:34	1:06:07	TER	footsteps	upstairs (danger zone)	(presence, noise)	talks to dad	PA_6
						no weird sounds,		
						conversational (safety),		
	4.00.0=	40-11	DE-		talking to dad (safety), slighty	dad presence of others		PA_5,
22	1:06:07	1:07:14	KEC	photograph	brighter (safety) situational	(safety)	Morning comes	PA_6
						Normal sounds, conversational,		
						stressed conversation		
	1.07.11	1:09:55	BG	monming	Daylight, No presence	(yet safety)	night comes	PA_6
23	1:07:14	1.00.00						

 $\ensuremath{\boxtimes}$  A.15: Appendix 6: Spreadsheet data for the film: "Paranormal Activity".(2/2)

					Gets dark (ambient change), clock			
					starts/stops (pre-established			
					danger), sleeping (weakness), clock stops (anticipation), wakes up	tud/sten sounds low		
24	1:09:55	1:10:22	TER	night	to sounds (presence)	bass (presence, noise)	door bangs	PA 6
						door slams, shakes,		
					door closes suddenly (statle) wake up suddenly (startle) door shakes	slam, low bass (presence) screams,		
					(presence, danger) walk hallway	swearing (startle)		
					(danger zone), door slams again	hyperventilation, cries		
25	1:10:22	1:13:10	HOR	doors!!!	(presence, danger)	name (danger)	cuddling	PA_6
26	1:13:10	1.13.23	REC	cuddles	hunging and cuddling (safety) brighter scene (safety) situational	conversational (safety)	Moming comes	PA 6
	11.101.10	11.10.20	0	odddioo	original coorie (carety) ortactional	Normal sounds,	Worming cornec	17 <u>0</u>
						conversational,		
27	1:13:23	1.17.20	P.C	morning	Daylight, No presence	stressed conversation (yet safety)	night comes	PA 7
21	1.13.23	1.17.30	ВС	morning	Gets dark (ambient change), clock	(yet salety)	riigiii comes	
					starts pre-established danger),			
					sleeping (weakness), clock stops			
					(anticipation),sheets moves shadow on the door (presence)	tud/step sounds, low		
28	1:17:30	1:19:50	TER	night night	wakes up to sounds (presence)	bass (presence, noise)	morning comes	PA_7
						Normal sounds,		
						conversational, stressed conversation		
29	1:19:50	1:25:13	BG	morning	Daylight, No presence	(yet safety)	night comes	PA 7
				9	Gets dark (ambient change), clock	3,	9	
					starts pre-established danger),	h.d/-t		
30	1:25:13	1:25:30	TFR		sleeping (weakness), clock stops (anticipation)	tud/step sounds, low bass (presence, noise)	horror starts	PA 8
00	1.20.10	1.20.00			Shes pulled out of leg (startle,	bacc (procerios) noise)	nonor danto	17 <u>0</u>
					contact, danger) dragged outside,	screaming (startle,		
31	1:25:30	1.26.32	HOB	dragging me down	door closes (contact, danger) mika runs toward her (fast movement)	danger, pain) crying (pain, danger)	morning comes	PA 8
01	1.20.00	1.20.02	HOIL	down	Talis toward fici (last filovericity	Normal sounds,	morning comes	17_0
						conversational,		
22	1:26:32	1.20.00	P.C	morning	Daylight No processo	stressed conversation	night comos	PA_8
32	1.20.32	1.30.08	ВС	morning	Daylight, No presence Gets dark (ambient change), clock	(yet safety)	night comes	FA_0
					starts pre-established danger),			
					sleeping (weakness), clock stops	h		
33	1:30:09	1:31:17	TFR	nighty night	(anticipation), stands up possesed like (pre-established danger)	tud/step sounds, low bass (presence, noise)	airl screams	PA 8
00	1.00.00	1.01.17	1 = 1 \	riigitty riigite	wakes up suddenly (startle) runs	screams (startle,	giri sorcariis	17 <u>0</u>
34	1:31:17	1:32:34	HOR	bye bye johny	back possesed like (presence)	scream (pain) no weird sounds the	day comes	PA_8
						low bass is off (safety,		
						lack of presence)		
					hasamas day (situational) l	alarm clocks, phone		
35	1:32:34	1:33:35	REC/T	im a lonely girl	becomes day (situational) hours go by (safety)	rings, day sounds (normality)	night comes	PA_8
00	1.02.04	1.00.00	1 (20/1	an a lonely gill			riigi ii Oomoo	17_0
36	1:33:35	1:34:36	HOR	KATEY?!	katey stops moving (presence)	danger)	change of scene	PA_8
					fade to black (situational, time frame) police presence (safety)	police siren (safety) cops talking (presence		
37	1:34:36	END	REC	robocop cops	shes shot down (safety)	of others, safety)	movie ends	PA 8
٠.					(50.01)			

# $\boxtimes$ A.16: Appendix 7: Spreadsheet data for the film: "Jaws 4: The Revenge".(1/2)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
0:00:00	0:00:14	intro credits	BG		Rhythm (Rising), Abnormal Effects (Anxiety), Ambient	rise in bgm
0:00:14	0:02:44	underwater swimming cooking time, xmas	TER	Obstruction, Rhythm (Slow), Presence (Indirect)	(Anxiety)	frying fish
0:02:44	0:08:34	shopping, goes out in the boat,	BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	shark view, rise of bgm
0:08:34	0:08:44	shark view	TER	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Ambient (Anxiety)	shark attack
0:08:44	0:08:50	WARRRGH im shark, fear me!	HOR	Obstruction, Danger Zone, Rhythm (Fast), Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Ambient (Safety), Startle	drop in bgm, end of attack
0:08:50	0:09:20	minus the arm, xmas charol	REP	Rhythm (Slow), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	shark view
0:09:20	0:09:22	shark view	TER	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	shark attack again
0:09:22	0:09:35		HOR	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle, Repulsion (Social)	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety), Startle, Repulsion (Social)	drop in bgm, calling for help but unheard over charol
0-09-35	0.10-57	unheard help call over charol, body of the deceased	REP	Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	change of scene
		kids and granma, i want you away from the water, funeral, riding ferry, riding		Topalori (Cookii)	Topalasi (esala)	kid doing dangerous
0:10:57	0:20:22	plane, kid doing dangrous	BG	Safety Zone, Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	stuff, rise in bgm drop in bgm, normal
	0:20:40	fighting kid, tourist on	TER	Rhythm (Slow)	Rhythm (Rising), Conversation (Anxiety)	conversation rise in bgm, anxious
0:20:40	0:21:40	the lose, anxious mama,	BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	granma
0:21:40	0:22:23	swimming in ocean, bottom view	TER	Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Ambient (Anxiety)	contact with
0:22:23	0:22:34	attacked, blood, fangs, shark!	HOR	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle	(Anxiety), Startle	wake up
0:22:34	0:22:52	just a dream	REC	Safety Zone, Rhythm (Slow), Presence (Others), Realization	Rhythm (Slow), Conversation (Safety), Conversation (Realization), Ambient (Safety)	change of scene
0:22:52	0:27:20	undersea research, xmas presents,	ВG	Rhythm (Slow), Presence (Others) Obstruction, Pre-established Danger, Rhythm	Rhythm (Slow), Conversation (Safety), Ambient (Safety) Rhythm (Rising), Abnormal Effects (Anxiety),	rise in bgm, shark view
0:27:20	0:27:40	shark view, shark granma playing with	TER	(Slow), Presence (Indirect)	Conversation (Anxiety)	drop of bgm granma notices
0:27:40	0:28:02		BG	Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	something
0:28:02	0:28:28	something, rise of	TER	Pre-established Danger, Rhythm (Slow), Abnormal Effects (Anxiety)	Rhythm (Slow), Conversation (Anxiety)	drop of bgm, rise in conversation
	0:33:44	playing in the beach, sea research, oldfolk love, flying a plane, camival,	BG	Safety Zone, Pre-established Safety, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	shark in the water
		shark on the water shark bites off le dude	TER	Danger Zone, Pre-established Danger, Rhythm	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	shark attack granma is fine and
	0:35:26	dancing in the	REC	(Fast), Presence (Direct), Contact, Startle Safety Zone, Rhythm (Slow), Presence (Others), Realization	(Anxiety), Ambient (Danger)	dances
0.34.30		we got us a whiteshark!, rainy night, casino, new years party, fighting over searching for the shark, sex in the	REC	Safety Zone, Pre-established Safety, Rhythm	Conversation (Realization)	change of scene
0:35:26	0:48:10	workshop,	BG	(Slow), Presence (Others) Obstruction, Pre-established Danger, Rhythm	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	shark view
0:48:10	0:49:02	its coming!!!	TER	(Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	shark out of the water
0:49:02	0:49:16	shark attack you got him man!	HOR	Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Startle	stabs shark, sinks away
0:49:16	0:49:48	(drop of bgm, fades	REC	Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Conversation (Realization)	change of scene
		oldfolk sexytime, searching for shark	ВG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	rise in bgm
		shark gone away, shark swimming	TER	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety)	change of scene
		talking about bf gramma,	ВG	Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	shark attack!
	0:54:30		HOR	Rhythm (Fast), Contact, Startle	Startle	wake up change of scene,
		just a dream midnite games,	REC	Realization	Conversation (Realization)	daylight
	0:58:44		BG TER	Safety Zone, Rhythm (Slow), Presence (Others) Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Slow), Conversation (Safety), Ambient (Anxiety) Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	shark on radar shark on the water
0:59:24	1:01:16	shark attacks sub, michael swimming for his life,	HOR	Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Startle	drop in bgm, put some distance between shark
		travelling inside sunken boat, shark close by,	TER	Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	shark reaches him
		shark attack!	HOR	72	2 money j	shark cant cross change of scene, rise
1:01:54	1:02:00		REC	Realization		in bgm

 $\boxtimes$  A.17: Appendix 7: Spreadsheet data for the film: "Jaws 4: The Revenge".(2/2)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
		shark somewhere close, run out of		Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:02:00	1:02:21	oxygen,	TER	Rhythm (Slow), Presence (Indirect)	Conversation (Anxiety), Ambient (Anxiety)	shark breaks wall
		breaks wall attack	HOR	, (,, (	, , , , , , , , , , , , , , , , , , , ,	out of water
		out of sight, out of		Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Conversation	out or mater
1:02:48	1:03:02		REC	Realization Obstruction, Safety Zone, Rhythm (Slow),	(Realization) Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	change of scene
1-03-02	1.05-22	day research,	ВG	Presence (Others)	(Anxiety), Ambient (Safety)	WA!
		ATTACK	HOR	Startle	Startle	just a remora
		ATTACK		Startie		
1:05:27	1:05:34		REC	0 ( + 7	Rhythm (Slow), Conversation (Realization)	change of scene
4-05-04	4.07-44	beach time, banana	DO	Safety Zone, Pre-established Safety, Rhythm	District (Olsse) Ossessesting (Osfets)	ata a ta ta ana
1:05:34	1:07:14	shark view, incoming	BG	(Slow), Presence (Others) Pre-established Danger, Rhythm (Slow), Presence	Rhythm (Slow), Conversation (Safety) Rhythm (Rising), Abnormal Effects (Anxiety),	nise in bgm
1:07:14	1:07:50		TER	(Indirect)	Conversation (Anxiety)	SHARK!
		shark bites off le		Obstruction, Pre-established Danger, Rhythm	Rhythm (Fast), Conversation (Anxiety), Ambient	
1:07:50	1:08:28	dudette,	HOR	(Fast), Presence (Direct), Contact, Startle	(Anxiety), Startle	drop of bgm, dying girl
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Repulsion (Physical), Repulsion (Psychological),	, 3,,33
1:08:28	1:08:35		REP	Repulsion (Physical), Repulsion (Psychological)	Repulsion (Social)	girl safe
				, , , , , , , , , , , , , , , , , , , ,		rise in bgm, shark in
1:08:35	1:08:46		REC	Rhythm (Slow), Presence (Others), Realization	Conversation (Realization)	the water
				Obstruction, Pre-established Danger, Rhythm	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:08:46	1:09:46	granma to the rescue!	TER	(Slow), Presence (Indirect)	Conversation (Anxiety)	change of scene
		girl in shock, hunting		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	37	
		after shark, hunting		Safety Zone, Rhythm (Slow), Presence (Others),		
1:09:46	1:12:54	with plane,	BG	Realization	Rhythm (Slow), Conversation (Safety)	rise in bgm, shark view
		, , , , , , , , , , , , , , , , , , , ,		Danger Zone, Pre-established Danger, Rhythm	Rhythm (Rising), Abnormal Effects (Anxiety),	,
1:12:54	1:13:08	shark view	TER	(Slow), Presence (Indirect)	Conversation (Anxiety), Ambient (Anxiety)	
	1:13:16		BG	Safety Zone, Rhythm (Slow), Presence (Others)	3" 3"	
		,9		Danger Zone, Pre-established Danger, Rhythm		
		back to shark, shark in		(Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:13:16	1:14:14	water (indirect),	TER	(Anxiety)	Conversation (Anxiety)	shark vs plane
				Danger Zone, Pre-established Danger, Rhythm	, , , , , , , , , , , , , , , , , , , ,	plane passes by, shark
1:14:14	1:14:20		HOR	(Fast), Presence (Direct), Startle	Rhythm (Fast), Startle	dissapears
		plane passes by		Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Conversation	rise in barn, people on
1:14:20	1:15:30	again.	REC	Realization	(Realization)	the water
		, , , , , , , , , , , , , , , , , , ,		Obstruction, Pre-established Danger, Rhythm	<u>'</u>	
				(Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:15:30	1:15:42		TER	(Anxiety)	Conversation (Anxiety)	shark attack
				Danger Zone, Pre-established Danger, Rhythm	Rhythm (Fast), Conversation (Anxiety), Ambient	
1:15:42	1:16:10	shark eat a plane	HOR	(Fast), Presence (Direct), Contact, Startle	(Danger), Startle	dead maybe
				Pre-established Danger, Rhythm (Slow), Abnormal		
		ate the granma		Effects (Anxiety), Repulsion (Physical), Repulsion	Rhythm (Slow), Conversation (Anxiety), Repulsion	
1:16:10	1:16:44	boyfriend	REP	(Psychological), Repulsion (Social)	(Physical), Repulsion (Psychological), Repulsion (Social)	bf was alive
					Rhythm (Slow), Conversation (Anxiety), Conversation	shark monitor shark
1.16:44	1:17:14	bf was alive after all	REC	Rhythm (Slow), Presence (Others)	(Realization)	close
				Danger Zone, Pre-established Danger, Rhythm		
				(Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	shark seems to go
		shark coming closer	TER	(Anxiety)	Conversation (Anxiety), Ambient (Anxiety)	away
1:18:40	1:19:16	shark gone maybe	REC	Realization	Conversation (Realization)	getting closer again
				Danger Zone, Pre-established Danger, Rhythm	Rhythm (Rising), Abnormal Effects (Anxiety),	
1:19:16	1:20:19	there he is!	TER	(Slow), Presence (Indirect)	Conversation (Anxiety)	shark attack
				Danger Zone, Rhythm (Fast), Presence (Direct),		1 11 6
1:20:19	1:20:45	shark attack	HOR	Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Startle	death of rastaman
					Abnormal Effects (Anxiety), Conversation (Anxiety),	
		slow death of		Repulsion (Physical), Repulsion (Psychological),	Repulsion (Physical), Repulsion (Psychological),	
1:20:45	1:21:40	rastaman,	REP	Repulsion (Social)	Repulsion (Social)	nise of bgm
				Obstruction, Danger Zone, Pre-established Danger,		
404 :-	4.00.00		TEE	Rhythm (Slow), Presence (Indirect), Abnormal	Rhythm (Rising), Abnormal Effects (Anxiety),	boat hits the fan. i
1:21:40	1:23:23	shark back for more,	TER	Effects (Anxiety)	Conversation (Anxiety), Ambient (Anxiety)	mean, shark
4.00.00	4,00-40		LIOD	Danger Zone, Rhythm (Fast), Presence (Direct),	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	alaudu dudald-
1.23.23	1:23:42		HOR	Contact, Startle	(Anxiety), Startle	slowly dying shark
4 00 40	4 00 50		DED	Repulsion (Physical), Repulsion (Psychological),	Repulsion (Physical), Repulsion (Psychological),	
1.23.42	1:23:50	San all access	REP	Repulsion (Social)	Repulsion (Social)	everyone ok
		im ok, even			Dis. 45 (Class) Carrana (Cafeta) Carr	-l
4.00-50	4,05,40	rastaman sad sad	DEC	Division (Class) Dealization	Rhythm (Slow), Conversation (Safety), Conversation	change of scene,
1-23:50	1:25:12		REC	Rhythm (Slow), Realization	(Realization)	rescue
		everyone going away,				
4.05.40		final goodbyes, happy	D.C	C-f-t-7 D (OH)	Dis. 45 (Class) Carray (Cafety)	
		thoughts, credits	BG	Safety Zone, Presence (Others)	Rhythm (Slow), Conversation (Safety)	end of movie

# $\boxtimes$ A.18: Appendix 8: Spreadsheet data for the film: "The Exorcist".(1/3)

#	Start	End	Stage	Description	Cue(visual)	Cue(audio)	
1		0:01:13	TER	intro, title	dark (obstruction, danger) face of statue (abnormal)		title, change of location
2		0:04:16	BG	arabia dig		no bgm, chanting	rise of music
3							
		0:04:25	TER	discovery		rising music (anxiety)	change of location (market)
4	0.04:25	0:08:24	BG	market	groups, smiling	crowd, laughing	cart dashes by
_						horses, gasp, scream	
5		0:08:30	HOR	horse cart	cart walks in (startle)	(startle)	just a cart
6	0:08:30	0:09:23	BG	back to dig site	daylight, groups, action, scenery	no bgm	rise of music
					weird statue (abnormal, presence) red		
					sun (color anxiety) turns around looking		
					for something (anxiety) dogs fighting	rising music (anxiety)	
7	0:09:23	0:11:19	TER	rise the mountain	(pain, danger) dust cloud (obstruction)	barking (startle, abnormal)	change to city (georgetown)
				intro city, char intro,	city, scenery, groups, morning, crowds,	J. , , ,	change to house, mom
8	0.11.19	0:12:12	BG	bokgrd	normality, filming,	conversational, narrative	fighting
_	0111110	0			dark, leaves moving (abnormal scenery)		1.9.12.19
						rising music (anxiety)	
				fighting on the		fighting on the phone	
9	0.42.42	0:26:55	TER	phone	sad face of daughter (anxiety)		change of location (market)
						(anxiety)	change of location (market)
10	U:Z0:55	0:27:48	BG	on the bed		no bgm	change of location hallway]
					dark, alone (anxiety, danger) light	weird sounds from the attic	
					dosent turns (ambient danger) long	(presence) hollow, wind	
					shots (slow rythm) stumbles on objects	effects (anxiety) rising	
11	0:27:48	0:29:47	TER	attic	(dangerous ambient)	suspense music (anxiety)	fireball
			,		, ,	fire, scream (startle) other	
12	0.30.42	0:29:50	HOR	fireball	fire ball (ambient danger, startle)	voice (presence, startle)	carl on screen
		0:30:00	REC	iust the butler	was the butler (realization, safety)	conversational (safety)	change of location
				,			
		0:31:02	BG	priest	daylight, priest, church	no bgm, ambient	desacration
15	U:31:U2	0:31:07	REP	desacrated mary	desacrated mary (abnormal social)	gasp (disgust)	change of location
l. l					daylight, groups, hospital, priest on	ballad music,	<u> </u>
16	0:31:07	0:36:00	BG	hospital	hospital	conversational, ambient	crazies
					psycological deseased patients		
					(abnormal social, psicological) face of	crying, babbling, ranting,	
17	0:36:00	0:37:05	REP	crazies on hospital	disguts from priest (disgust)	screams (abnormal)	meets with mom
						conversational, flirting,	
18	0.37.05	0:41:20	BG	party night	daylight, sadness, partying, groups,	laugher	pissing kid
10	0.07.00	0.4120	- 50	party riigint	dayiigi k, saariess, partyirig, groups,	tells them they will die	pisalig idd
					storing shild (shaperned payabalagiagl)		
40	0.44.00	0.44.40	DED		staring child (abnormal psychological)	(abnormal psychological,	
		0:41:42	REP	piss on you	pisses on herself (abnormal social)	social)	change of location
20	0:41:42	0:42:49	BG	bathing, clean	conversational, group, relaxed	no bgm	shaking bed
					running up, flashing lights (fast rythm,		
					presence, danger) bed shaking (direct	scream (startle, danger)	
21	0:42:49	0:43:09	HOR	bed shakes	presence, danger)	rattling (danger)	change of scene
						conversational, ballad	
22	0:43:09	0:44:50	BG	priest depression	group, drinking	music	dream
					bright, mist, dream mode (ambient		
					danger) weird flashes, dead mother,		
					weird street (abnormal) flashes of evil		
22	0.44.50	0:45:27	TER	priest dreams	face (indirect presence)	rising music (anxiety)	end of dream
23	0.44.50	0.45.27	IEN	priesi di earris			endordream
24	0.45.07	0.45.07	LIOD	oter audio a aid	struggling (startle, fast rythm) spit	screaming, swearing	nwigot mago
24		0:45:37		struggling girl	strikes (abnormal, contact)		priest mass
25	0:45:37	0:49:11	BG	hospital	mass, hospital, groups	no bgm, conversation	operation
					face of pain (pain of others) blood	grunts (pain) sounds of	
					(abnormal physical) machines come to	heavy machinery (abnormal	
26	0:49:11	0:50:20	REP	operation	face (abnormal psychological)	phycological)	end of operation
				discussion of			
27	0:50:20	0:50:57	BG	operation	groups, medics,	conversational	change of escenery
				-p	J	screaming (indirect	g,
						presence, danger, pain,	
						anxiety) rushed	
						conversation about violent	
20	0.50.57	0:51:22	TT-D	first appearance	rupping up the stairs (smalety)	conversation about violent	antar room
Zŏ	0.50.57	0:51:22	TER	first encounter	running up the stairs (anxiety)	attacks (anxiety)	enter room
	0.51.0-	0.54.05			weird movements, jumping up the bed	screaming, begging	l.
29	U:51:22	0:51:37	REP	first encounter	(abnormal physical, deformity)	(anxiety, pain of others)	tums
					face of demon (startle, presence,	grunt of demon (startle,	
					abnormal) strikes doctor (contact, pain,	presence) voice of demon	
					danger, fast rythm) shows vagg	(presence, danger) "fuck	
					(abnormal social) struggling, hurting	me" (abnormal social)	
					herself, (pain, contact, abnormal	screaming, crying, cursing	
30	0:51:37	0:52:12	HOR	first encounter	physical)	(pain, danger, anxiety)	change of location
		0:54:12	BG	after f enc	groups, sadness, daylight	conversation	change of location
UI	J.JZ. 1Z	J.JT. 1Z	DG	and I G Io	pain face (pain of others) weird	machinery sound	G KG IGG OF IOCGILOT
22	0.54.40	0:54:22	DED	brain overse			aparation and
			REP	brain exams	machinery (abnormal phycological)	(abnormal psychological)	operation end
చచ	U.04:22	0:55:55	BG	after test	groups, ambient, daylight, safety	conversational	reaches house
						ringing phone no answer	
					anxiety, presence) demon face on the	(anxiety, presence) rising	
						music (anxiety) abnormal	
					the dark (danger zone) room chilled	sound effects, whisper,	drop of bgm, presence of
			TED	second enc	(abnormal, anxiety, presence)	voice (anxiety)	daughter
34	0:55:55	0:57:16	IFR		,, , , , , , , , , , , , ,		
		0:57:16 0:58:10			aroups, bright.	no bam, conversational	rise of music
		0:57:16 0:58:10	BG	fighting	groups, bright,	no bgm, conversational	rise of music
					groups, bright,	rising suspense music	rise of music
					groups, bright,	rising suspense music (anxiety) panting (anxious)	rise of music
35	0:57:16		BG		groups, bright, cryling((sad))	rising suspense music	girl comes downstairs

 $\boxtimes$  A.19: Appendix 8: Spreadsheet data for the film: "The Exorcist".(2/3)

						girl walking down the stairs belly up (startle, presence, danger, abnormal	pike music (startle, danger)	
						deformity) open mouth with blood (presence, abnormal social, deformity,	gasp (fear) demon sound (presence, abnormal	
37	0:58:29	0.58.40		HOR	down the stairs	mutilation)	psychological)	change of location
	0.00.20	0.001.0			GOTTI CIO CIGNIC		someone inside (indirect	or not light or industrial.
							presence) rising suspense	
						girl staring (anxiety) demon face	music (anxiety) demon	
						(presence, danger) picture falls (startle,	sounds (danger, presence)	
						presence) fall back reacting to stink	coughing reaction to stink	
38	0:58:40	1:00:19		TER	hypnosis	(abnormal physical, disgust, presence)	(abnormal physical)	demon comes out
						face turns, strikes at doctor (startle,	grunt (startle, presence,	
						danger, direct presence) jumps on	abnormal deformity)	
						doctor, bites, attack, fall (contact, pain,	scream (startle, pain,	
39	1:00:19			HOR	strike doctor	danger, presence, fast rythm)	danger, presence)	change of location
40	1:00:32	1:05:10		BG	priest and cop	daylight, running, normally,	conversational, no bgm	change of location (clinic)
						shaking on bed (presence, abnormal	rising suspense music (anxiety)screams (pain,	
41	1:05:10	1:05:55		REP	shaking on bed	psychological)		docs talking
41	1.00.10	1.05.55		INLF	Shaking On Deu	psychological)	conversational, relaxed,	docs taining
42	1:05:55	1.15.33		BG	docs cons converse	group, daylight, cop, smiling	laughing	cop leaves, sounds
72	1.00.00	1.10.00		ьс	docs cops converse	rushing up (fast rythm, danger, startle)	laugillig	cop leaves, sourius
						things flying in the room (presence,		
						danger) demon face hurting herself		
						(abnormal mutilation, pain, danger,		
						contact) struggle, makes her lick her		
						(contact, danger, presence, abnormal	thud sound (startle)	
						social) strikes her (contact, pain)	scream, demon voice	
						furniture moves around (presence,	(startle, danger, pain)	
						danger) fast cuts (fast rythm) neck turns	demon talks, swears	
						around (abnormal deformity, presence,	(presence, abnormal	1.
43	1:15:33	1:16:30		HOR	third encounter	danger)	psychological social)	change of scene (park)
	4 40 00	4 00 05		БО.		daylight, groups, ambient, sadness,	no bgm, cryling,	
44	1:16:30	1:20:25		BG	talking with priest	crying	conversational	reach house
						antor have a dayle (abote estimation departure)	weird demon sounds	
						enter house dark (obstruction, danger) walks into room (danger zone) demon	(presence, anxiety)	
							converastional, demon	
						face girl on bed (presence) cut face, strapped, up nose (abnormal mutilation,	voice (presence) your mother is here with us	
45	1:20:25	1.22.26		TER	4th encounter	deformity, psychological)	(abnormal psychological)	puke startle
75	1.20.20			, LIX	141 G ROGING	asismity, psychological)	puke sounds (startle,	Parco ottal do
							abnormal, disgust) rusty	
						pukes on him (startle, abnormal,	demon voice (presence,	
46	1:22:26	1:22:35		HOR	puke	disgust)	danger)	change of scene (room)
						<u> </u>	<u> </u>	change of scene (demon
47	1:22:35	1:27:24		BG	priest background	groups, analysing background, safety	no bgm	room)
							rising music (anxiety)	
							conversation with devil	
						girl strapped (safety) demon face	(presence) hissing demon	
						(danger, presence) slashed face	sounds (presence, danger)	
40	4.07.04	4.20.20		TED	Eth annual inter	(abnormal mutilation) burns to holy	talks in tongues (presence,	sharper of assure (house)
48	1:27:24	1:29:20		TER	5th encounter	water (presence, pain of others)	danger)	change of scene (house)
49	1:29:20	1:32:55		BG	examines sound rec	groups, daylight, house,	conversational, no bgm, no voices	phone call
73	1.20.20	1.02.00		50	100	night (obstruction, danger) running	10.000	PINIO COM
						(anxiety) goes into house (danger zone)		
						freezing room (presence) girl on bed		
50	1:32:55	1:33:49		TER	6th encounter	(presence, danger)	rising music (anxiety)	sees abs
						help me message on abs (presence,		
						abnormal deformity mutilation) scared		change of scene (church
	1:33:49			HOR	help me	face (anxiety, fear, startle)	pike music (startle, danger)	
52	1:34:00	1:36:00		BG	church central	daylight, groups, office	conversational	letter delivered to father
						father sees letter (anxiety) face of girl		
						(presence, startle, danger) father comes		
E0	4.00.00	4.20.50	0.00.00	TT-D	fath or and:	to house at night mist, poor lighting	violena um raio ( il-f-)	anana daar
	1:36:00		0:00:00		father arrives	(obstruction, danger)	rising music (anxiety)	opens door
54	1:36:59	1.37:13	0:00:59	DG	father arrives	groups, meet together	conversational demon scream from	screan
							upstairs (startle, presence,	
55	1:37:13	1:37:22	0:01:13	HOR	7th encounter	they look up (startle)	danger)	keep on walking
50			5.51.10		o. loodi itoi			change of scene (room
56	1:37:22	1:37:39	0:01:22	REC	keep on talking	they continue speaking (safety) relaxed	conversational, relaxed	daughter)
						. 3, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	conversational, narrative,	
57	1:37:39	1:39:40	0:01:39	BG	prepare for ex	groups, preparing, stressed,	stressed	go up the stairs
							rising suspense music,	
							demon sounds (presence,	
						going up to ex (anxiety, anticipation)	anxiety) conversational	
						enter room (danger zone) demon girl on	stressed (anxiety) demon	
E0	1.20.40	1.41-05	0.00.40	ТΕ	an in to co	bed strapped (presence) trows holy	voice swearing (presence,	amit
58	1:39:40	1:41:05	0:03:40	IEK	go up to ex	water (presence, danger) spits on his lense (abnormal, disgust,	danger)	spit
59	1:41:05	1.41.17	0:05:05	RFP	spit	spits of his lense (abhornal, disgust, startle)	spit sound (disgust)	deans up
00	1.71.00	1.71.17	0.00.00		opit	oui 40)	Spir souria (diaguat)	oroario ap

 $\boxtimes$  A.20: Appendix 8: Spreadsheet data for the film: "The Exorcist".(3/3)

						cleans up and continues with ex		
						(change) twitching tongue, burning mist		
						(abnormal, presence, danger, pain)	demon sounds (presence,	
						twitching bed (presence, danger) rising	abnormal) chanting	
						bed (presence, danger) demon face	(anxiety) father doesnt	
ൈ	1:41:17	1.42.57	0:05:17	TED	goes on	(presence)	answer (fear)	puke rep
w	1.41.17	1.40.07	0.00.17	ILIX	goes on	pukes comes out of girl mouth slowly	exordism (anxiety) glurping,	pake rep
~4	4 40 57	4 44 04	0.07.57	DED				
61	1:43:57	1:44:24	0:07:57	KEP	puke	(abnormal, disgust) puked strap	vomit sounds (disgust)	deans up
					_		laughing crying demon	
62	1:44:24	1:44:57	0:08:24	TER	clean up	moving furniture (danger, presence)	(danger, presence, anxiety)	I cast you out!
						on top, fast movement, ceiling breaks	father screams I cast you	
						(startle, danger, fast rythm) things fall,	out (startle, danger,	
						break (danger, fast rythm) girl face turns	excited, fast rythm)	
						around (abnormal deformity, presence	screaming, excited	
						danger) whole house shakes (startle,	exorcism (fast rythm,	
						danger, presence) straps break, starts	danger) the power of christ	
					power of christ		compels you (excited,	
-	4.44.57	4.47.00	0.00.57	LIOD				
63	1:44:57	1:47:08	0:08:57	HOR	compels you	on leg (abnormal mutilation)	danger)	girl goes down
						girl falls on bed and is strapped again		
					_	(safety) shaking, struggle, ambient drop		1
64	1:47:08	1:47:28	0:11:08	REC	commands you	(safety)	no bgm, sound drop	girl strikes at father
						girl wakes up and strikes father		
						(contact, startle, danger) drops water		
						(safety) whole room shake (danger		
						zone, presence, fast rythm) girl agaisnt		
						light moving like a demon, image of		
						demon statue (presence, danger,	demon runt (startle,	
ee.	1:47:28	1.40.40	0.11.20	шов	image of statue	abnormal deformity)		and of new or
00	1.47.20	1.40.10	0.11.20	HOR	irriage or statue		presence, danger)	end of prayer
						end of prayer, demon calms down,	demon reduced to mumble,	
						father covers her with sheet (safety,	drop of bgm, voices volume	
66	1:48:10	1:49:25	0:12:10	REC	end of ex 1	realization)	lower (safety)	change of scene (stairs)
							no bgm, no voices,	
							conversational, talking	
67	1:49:25	1:50:32	0:13:25	BG	rest	sitting down outside of room, group,	about rest	walks back alone
						goes in alone (danger zone) father		
						shaking drinking pills (anxiety, danger)	rising music (anxiety)	
						face of mother on bed (danger zone)	demons sounds, mother	
						girl on bed sweating (abnormal	crying sounds (anxiety,	
						mutilation, danger, presence) father	danger, presence) sound of	
						stays alone to continue ex (danger	mother (anxiety) father on	
68	1:50:32	1.54.06	0:14:32	тгр	walk alone	zone)		shange of seems (day metairs)
							pain (danger, anxiety)	change of scene (downstairs)
oэ	1:54:26	1.00.35	0:18:26	BG	talk with mom	with mother, group	conversational	goes into room
						goes into room, freezing (danger zone)	, .,,	
						dead father (danger, presence, pain of	rising music (anxiety)	
						others) demon sitting on bed (presence)	panting (anxiety) demon	
70	1:55:35	1:56:16	0:19:35	TER	goes back	smiling demon (presence, danger)	laugh (presence, danger)	father strikes demon
							father swears, demon	
							grunts (startle, pain, fast	
						father strikes demon on the floor	rythm) demon screaming,	
						(contact, danger, presence, fast rythm)	come into me (fast rythm.	
						demon goes into father (danger,	danger) crying girl (safety	
						presence) jumps out of the window	for her) scream, window	
					demon goes into	(dange, pain, startle) goes down the	crash (startle) pike music	
							(danger)	mom and cop walk in
74	4.50:40	4.50.55	0.00.40	LICE			(COST CACE)	TOTAL AND CON WAIK IN
71	1:56:16	1:56:55	0:20:16	HOR	father	stairs (pain, fast rythm)	(dailigei)	momana cop waik in
71	1:56:16	1:56:55	0:20:16	HOR	father	mom walks in, girl crying (safety) cop	(dai igoi )	mon ara cop waikin
71	1:56:16	1:56:55	0:20:16	HOR		mom walks in, girl crying (safety) cop comes in (presence of others) shot of		THORITAIN COP WAINTI
					all is gone and	mom walks in, girl crying (safety) cop comes in (presence of others) shot of window (realization)crowds, crying,	girl crying, conversational,	
	1:56:16 1:56:55		0:20:16 0:20:55		all is gone and done	mom walks in, girl crying (safety) cop comes in (presence of others) shot of window (realization)crowds, crying, realization, praying for father	girl crying, conversational, crowds, praying	change of scene (morning)
					all is gone and	mom walks in, girl crying (safety) cop comes in (presence of others) shot of window (realization)crowds, crying,	girl crying, conversational,	

# $\boxtimes$ A.21: Appendix 9: Spreadsheet data for the film: "Dawn of the Dead".(1/3)

Start	End	Description	Stage	Cue (Visual)  Chectruction Phythm (Slow) Precence (Indirect)	Cue (Audio)  Phythm (Picing), Abnormal Effects (Anviety)	Ends with
0:00:00	0:00:22	intro and waking girl	TER	Obstruction, Rhythm (Slow), Presence (Indirect), Presence (Others)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	wakes up
	0:00:24	indo and waiting girl	HOR	Obstruction, Rhythm (Fast), Startle	Startle	you alright?
		shits really hit the fan	REC	Realization	Conversation (Realization)	we dont know that
		crowd argueing	BG	Obstruction, Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety)	criminals come out shooting
0:07:28	0:08:25	firefight	HOR	Obstruction, Danger Zone, Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Rising), Rhythm (Fast), Conversation (Anxiety)	gas
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Presence		
0:08:25	0:08:54	gas mask, invation	TER	(Others) Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Rhythm (Rising), Conversation (Anxiety)	fist zombi?
0:08:54	0:09:45	invasion, killing, doors, etc	HOR	Rhythm (Fast), Presence (Indirect), Presence (Direct), Abnormal Effects (Anxiety), Startle	Rhythm (Fast), Conversation (Anxiety)	
		death of officer, lying corpses	REP		Rhythm (Rising), Conversation (Anxiety), Repulsion (Psychological)	trying to stand up zombie
		trying to stand up		Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal		
	0:10:37	attack of frombie and	TER	Effects (Anxiety), Repulsion (Physical) Obstruction, Danger Zone, Pre-established Danger,		afrombie
0:10:37	0:11:48	friends	HOR	Rhythm (Fast), Presence (Direct), Contact, Startle Obstruction, Danger Zone, Rhythm (Slow),	(Anxiety), Conversation (Anxiety), Startle	suicide kid change of scene, drop
0:11:48	0:12:00	kid sulicides	REP	Presence (Indirect), Repulsion (Physical), Repulsion (Psychological)	Rhythm (Rising), Rhythm (Fast), Repulsion (Psychological)	of bgm, slow down break
0:12:00	0:13:48	meeting with big guy	BG	Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	old man startle
0:13:48	0:13:56	scare of the old man	HOR	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Startle	Rhythm (Fast), Startle	just an old creeer conversation with old
0:13:56	0:14:04	just an old man conversation with old	REC	Obstruction, Danger Zone, Rhythm (Slow), Presence (Others), Realization Obstruction, Safety Zone, Rhythm (Slow),	Rhythm (Slow), Conversation (Realization) Rhythm (Slow), Conversation (Safety), Conversation	man with old
0:14:04	0:15:12	creeper	BG	Presence (Others) Obstruction, Danger Zone, Rhythm (Fast),	(Anxiety)	open the door to doom
0:15:12	0:15:41	zombies tru the boards	HOR	Presence (Direct), Contact, Startle, Repulsion (Psychological)	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety), Ambient (Danger), Startle	drop in bgm
0-15-41	0-15-54	looking at zombies in basement	TER	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Conversation (Anxiety)	eating, killing, and whatnots
0.15.41	0.15.54	Dasarient	ILIX	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Direct), Presence (Others), Abnormal Effects (Anxiety), Repulsion	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	
0:15:54	0:17:49	feasting zombies	REP	(Physical), Repulsion (Psychological), Repulsion (Social)	(Anxiety), Ambient (Anxiety), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	change of scene
		arriving in heli	TER	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Others)	Rhythm (Rising), Conversation (Safety)	dead body
		dead body	REP	Obstruction, Pre-established Danger, Rhythm (Slow), Presence (Others), Repulsion (Physical), Repulsion (Psychological)	Rhythm (Slow), Conversation (Anxiety), Repulsion (Psychological)	just like that
		hold it like that	BG	Obstruction, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Anxiety)	change of scene,
0-40-44	0-40-05		TED	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal	Rhythm (Rising), Conversation (Anxiety), Ambient	
		walks in alone what are you doing?	TER BG	Effects (Anxiety) Obstruction, Rhythm (Slow), Presence (Others)	(Anxiety) Rhythm (Slow), Conversation (Safety)	post abandoned bad cops
0:19:42	0:19:45		HOR	Obstruction, Danger Zone, Presence (Direct), Startle	Rhythm (Fast), Startle	just stay cool
0:19:45	0:21:10	armed men	TER	Obstruction, Rhythm (Slow), Presence (Indirect)	Rhythm (Slow), Rhythm (Rising), Conversation (Anxiety)	it be crazy to start shooting one another
0:21:10	0:21:28	you guys ok?	REC	Obstruction, Safety Zone, Presence (Others), Realization	Rhythm (Slow), Conversation (Realization), Ambient (Anxiety)	
0:21:28	0:25:20	heli ride, redneck party	ВG	Obstruction, Safety Zone, Rhythm (Slow), Presence (Others) Danger Zone, Pre-established Danger, Rhythm	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	redneck killings
0:25:20	0:26:02	redneck killings	REP	(Slow), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	Rhythm (Slow), Rhythm (Rising), Conversation (Anxiety), Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	airport scene
0:26:02	0:27:20	airport zombies	TER	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Presence (Others)	Rhythm (Slow), Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	falling cups
		sound on the back!	HOR	Danger Zone, Pre-established Danger, Rhythm (Slow), Startle	Rhythm (Slow), Startle	just cups
		just cups	REC	Danger Zone, Rhythm (Slow), Realization	Rhythm (Slow)	out of order change of scene
0:27:29	0:27:50		BG	Safety Zone, Rhythm (Slow), Presence (Others) Danger Zone, Pre-established Danger, Rhythm	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	knock on the door
		knock knock	TER	(Slow), Presence (Indirect) Obstruction, Pre-established Danger, Rhythm	Abnormal Effects (Anxiety), Ambient (Safety)	roawr shot change of scene, boys
	0:27:57		HOR	(Fast), Realization Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Abnormal Effects (Anxiety), Startle Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	and girls
	0:28:05		TER	Rhythm (Slow), Presence (Indirect) Rhythm (Fast), Presence (Direct), Contact, Startle,	(Anxiety), Ambient (Safety) Rhythm (Rising), Rhythm (Fast), Abnormal Effects	knocks on zombie
	0:28:35 0:28:43	zombie attack	HOR REC	Realization, Repulsion (Psychological) Realization	(Anxiety), Conversation (Anxiety), Startle	knock dead
0:28:43	0:29:00	silly rabbits	HOR	Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Startle	Abnormal Effects (Anxiety), Ambient (Anxiety), Startle	roger!
	0:29:15		TER	Obstruction, Rhythm (Slow), Presence (Indirect), Presence (Others)	Rhythm (Rising), Conversation (Anxiety)	
	0:29:30	attack of the	REP	Repulsion (Physical), Repulsion (Psychological) Danger Zone, Pre-established Danger, Rhythm	Rhythm (Slow) Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
		zombikids and others	HOR	(Fast), Presence (Direct), Contact, Startle Rhythm (Slow), Repulsion (Physical), Repulsion	(Anxiety), Ambient (Anxiety)	kiddos dying
	0:30:18	deaded	REP	(Psychological), Repulsion (Social) Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow)	another one
0:30:18	0:30:36		HOR	Rhythm (Fast), Presence (Direct), Startle	Rhythm (Fast), Conversation (Anxiety)	

# $\boxtimes$ A.22: Appendix 9: Spreadsheet data for the film: "Dawn of the Dead".(2/3)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
:30:36	0:30:42	dying zombie	REP	Repulsion (Physical), Repulsion (Psychological) Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Conversation	parking lot full of
:30:42	0:33:30	heli ride away	BG	Realization	(Realization)	zombies
-33-30	0-34-50	mall ceeling	TER	Obstruction, Danger Zone, Pre-established Danger,		drop in barn
		mall ceeling chumps, and spam		Rhythm (Slow), Presence (Indirect) Danger Zone, Pre-established Danger, Rhythm	Conversation (Anxiety), Ambient (Anxiety)	drop in bgm
:34:50	0:37:30	down there	BG	(Slow), Presence (Others) Danger Zone, Pre-established Danger, Rhythm	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	hit and run
37:30	0:39:44	hit and run	TER	(Slow), Presence (Indirect), Presence (Others), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	office room
-30-11	0-41-16	power on, zombie comedy central	BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	harms way
		getting ready for it	TER	Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Slow), Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	nams way
.44.00	0-42-40	hit and mm	LIOD	Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle	Dhythmy (Dising) Compression (Amyioty) Startle	
		hit and run shopping spree	HOR BG	(Past), Presence (Direct), Contact, Startle	Rhythm (Rising), Conversation (Anxiety), Startle	
.10.10	0.77.02	Chopping op. CC	50	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Abnormal	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	
44:52	0:45:21	come here!	TER	Effects (Anxiety), Repulsion (Psychological), Repulsion (Social)	(Safety), Conversation (Anxiety), Ambient (Anxiety), Ambient (Danger)	
		dude checking office	BG	Safety Zone, Rhythm (Slow)	Rhythm (Slow), Conversation (Safety)	zombie
				Obstruction, Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect), Presence		
	0:47:44		TER	(Others)	Ambient (Danger)	out of bullets
	0:47:46		HOR	Obstruction Donger Zone Bro established Donger		
	0:48:02 0:48:09		BG TER	Obstruction, Danger Zone, Pre-established Danger		
				Obstruction, Danger Zone, Pre-established Danger,		
	0:48:28 0:48:38		HOR REC	Rhythm (Fast), Presence (Direct), Contact, Startle Obstruction, Danger Zone, Realization	(Anxiety), Ambient (Anxiety), Startle	
				Danger Zone, Pre-established Danger, Presence	Rhythm (Rising), Rhythm (Fast), Abnormal Effects	
48:38	0:50:15	run for it	HOR	(Indirect), Presence (Direct), Contact, Startle	(Anxiety), Ambient (Anxiety)	go into dpt store
:50:15	0:50:20		REC	Danger Zone, Pre-established Safety, Rhythm (Fast), Presence (Others), Realization	Rhythm (Fast), Conversation (Safety), Conversation (Realization)	
				Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle,	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
50:20	0:50:46		HOR	Repulsion (Psychological)	(Anxiety)	
50:46	0:51:00	blood ears	REP	Repulsion (Physical), Repulsion (Psychological)	Rhythm (Slow), Rhythm (Fast), Repulsion (Physical), Repulsion (Psychological)	
	0:51:25		BG	Rhythm (Fast), Presence (Others)		calling for it
	0:52:04 0:52:12	calling for it	TER BG	Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	change of scene
	0:52:27		TER	Obstruction, Danger Zone, Pre-established Danger, Presence (Indirect)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety)	
				Safety Zone, Pre-established Safety, Presence		
	0:53:19	ive been thinking	BG TER	(Others)	Rhythm (Slow), Conversation (Anxiety)	
.55.19	0.55.24		IER	Safety Zone, Pre-established Safety, Rhythm		
53:24	0:54:27	elevator shaft	BG	(Slow), Presence (Others) Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow), Conversation (Safety)	
54:27	0:56:02	girl gets attacked, shaft walk	TER	Rhythm (Slow), Presence (Indirect), Presence (Others), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Anxiety)	
56:02	0:57:10		HOR	Danger Zone, Rhythm (Fast), Presence (Direct), Abnormal Effects (Anxiety), Contact, Startle	Startle	
		crying girl	REC	Rhythm (Slow), Presence (Others), Realization	Conversation (Safety), Conversation (Realization)	
	1:01:58	looks like we gonna	ВG	Safety Zone, Pre-established Safety, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety), Ambient (Safety)	
		documentary on		Rhythm (Fast), Presence (Direct), Contact, Startle, Repulsion (Physical), Repulsion (Psychological),	Rhythm (Fast), Startle, Repulsion (Physical), Repulsion	
:01:58	1:03:15		REP	Repulsion (Social)	(Psychological), Repulsion (Social)	
03:15	1:08:00	morning, pick ups	BG	Safety Zone, Pre-established Safety, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	
		arrive and start		Danger Zone, Pre-established Danger, Rhythm	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
		stamping on three more!	HOR BG	(Fast), Presence (Direct), Contact, Startle Safety Zone, Rhythm (Slow), Presence (Others)	(Anxiety), Ambient (Anxiety), Ambient (Danger) Rhythm (Slow), Conversation (Safety)	
		truck zombies	TER	Obstruction, Rhythm (Slow), Presence (Indirect), Abnormal Effects (Anxiety)	Rhythm (Rising), Abnormal Effects (Ánxiety), Conversation (Ánxiety)	
		attack of truck zombies	HOR	Danger Zone, Rhythm (Fast), Contact, Startle	Rhythm (Fast), Startle	
. 10. 13	1.11.24	ZOTIMES	HOR	Danger Zone, Rhythm (Rist), Contact, Status Danger Zone, Rhythm (Slow), Presence (Direct), Presence (Others), Repulsion (Physical), Repulsion	ruyumi (i asu, sualue	
	1:11:38		REP	(Psychological)	D. 4. 5. 0	
	1:11:58		HOR	Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast)	lete as halar
	1:12:32 1:12:56		REC BG	Rhythm (Slow), Realization Pre-established Safety, Rhythm (Slow)	Rhythm (Slow), Conversation (Realization) Rhythm (Slow)	lets go baby
	1:14:45		HOR	Danger Zone, Rhythm (Fast), Presence (Direct), Contact	Rhythm (Rising), Repulsion (Psychological), Repulsion (Social)	
		i left my bag	BG	Pre-established Safety, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Conversation (Anxiety)	
		Hertiny bag			Rhythm (Fast), Conversation (Anxiety), Ambient	
	1:16:38		HOR	Rhythm (Fast), Presence (Direct), Contact, Startle Presence (Others), Repulsion (Physical), Repulsion		
16:38	1:17:14	got bitten	REP	(Psychological)	(Physical), Repulsion (Psychological)	
:17:14	1:20:03		BG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
-5U-U3	1:20:57	armed and going	HOR	Obstruction, Danger Zone, Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Ambient (Danger)	
		urray		Safety Zone, Pre-established Safety, Presence		
	1:21:33		BG	(Others) (8	Rhythm (Slow), Conversation (Safety)	

# $\boxtimes$ A.23: Appendix 9: Spreadsheet data for the film: "Dawn of the Dead".(3/3)

Start	End	Description	Stage	Cue (Visual)	Cue (Audio)	Ends with
1-01-00	1-21-51	what about the cars?	TER	Danger Zone, Pre-established Danger, Rhythm (Slow), Presence (Indirect)	Rhythm (Rising), Conversation (Anxiety), Ambient (Anxiety)	
112 1133	1:21:51	around the mall in the	IER	Danger Zone, Rhythm (Fast), Presence (Direct),	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	change of scene drop
1:21:51	1:26:03		HOR	Contact, Startle	(Anxiety), Ambient (Anxiety), Startle	bgm
				Obstruction, Pre-established Danger, Rhythm	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J
				(Slow), Presence (Indirect), Abnormal Effects	Rhythm (Rising), Abnormal Effects (Anxiety),	
				(Anxiety), Repulsion (Physical), Repulsion	Conversation (Anxiety), Ambient (Anxiety), Repulsion	
		going on a hunt	REP	(Psychological), Repulsion (Social)	(Psychological)	
1:27:26	1:30:33		BG	Safety Zone, Rhythm (Slow), Presence (Others) Safety Zone, Rhythm (Slow), Presence (Others),	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	
				Repulsion (Physical), Repulsion (Psychological),		
1:30:33	1:31:21	clean up of bodies	REP	Repulsion (Social)		
		the mall life	ВG	Safety Zone, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Ambient (Safety)	
				Safety Zone, Pre-established Safety, Rhythm		
				(Slow), Presence (Others), Repulsion (Physical),	Rhythm (Slow), Abnormal Effects (Anxiety), Conversation	
1:36:08	1:37:55	turning into zombie?	REP	Repulsion (Psychological), Repulsion (Social)	(Anxiety), Ambient (Safety), Repulsion (Psychological)	
1-37-55	1:39:10		BG	Safety Zone, Pre-established Safety, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
1.07.00	1.00.10	turning into a	ВС	Obstruction, Pre-established Danger, Rhythm	ranythin (olow), oo wersauon (oarety)	
1:39:10	1:40:14	zombie!!!	TER	(Slow), Presence (Indirect)	Rhythm (Rising), Conversation (Anxiety)	
				Safety Zone, Pre-established Safety, Rhythm		
	4 40 44		DED	(Slow), Presence (Others), Repulsion (Physical),	Rhythm (Slow), Conversation (Anxiety), Repulsion	
1:40:14	1:40:41	burne china and mayo	REP	Repulsion (Psychological), Repulsion (Social)	(Social)	
1-40-41	1:46:02	burry him and move	ВG	Safety Zone, Pre-established Safety, Rhythm (Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	
1.40.41	1.40.02	OII	БС	Presence (Direct), Repulsion (Physical), Repulsion	rangulari (Glow), Goriversaubri (Galety), Ambient (Galety)	
1:46:02	1:46:38	zombies still outside	REP	(Psychological), Repulsion (Social)	Rhythm (Slow)	
				Safety Zone, Pre-established Safety, Rhythm		
1:46:38	1:53:37	mall life 3	BG	(Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
1:53:37	1-52-57		HOR	Obstruction, Danger Zone, Pre-established Danger, Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation (Anxiety), Ambient (Danger)	
	1:54:12		BG	Kriytiiii (Fast), Freserice (Direct), Coritact, Starte	(Anxiety), Ambient (Danger)	
		thugs come in	HOR	Rhythm (Fast), Presence (Direct), Contact, Startle	Rhythm (Fast), Conversation (Anxiety), Ambient (Danger)	
1.04.12	1.07.04	a lago como in	HOIL	Pre-established Safety, Rhythm (Slow), Rhythm	ranythin (i ast), conversation (Analety), Ambient (barger)	
				(Fast), Presence (Direct), Presence (Others),		
1:57:54	1:59:07	zombie pies? really?	BG	Contact, Repulsion (Social)	Rhythm (Slow), Conversation (Safety), Ambient (Safety)	
4 50 07	0.00.04	C 117 11		Danger Zone, Rhythm (Fast), Presence (Direct),	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
		fight it out boys aftermath of raid	HOR BG	Contact, Startle Safety Zone, Rhythm (Slow), Presence (Others)	(Anxiety), Ambient (Danger), Startle Rhythm (Slow), Conversation (Safety), Ambient (Safety)	boys go out/die
2.00.24	2.00.53	alternation rate	ВG	Danger Zone, Pre-established Danger, Rhythm	Rhythin (Slow), Conversation (Salety), Ambient (Salety)	
				(Fast), Presence (Direct), Contact, Repulsion		
				(Physical), Repulsion (Psychological), Repulsion	Repulsion (Physical), Repulsion (Psychological),	
2:06:53	2:07:41		REP	(Social)	Repulsion (Social)	
0.07.44	0-07-44	trying go up the		D7	District (District)	
2.07.41	2.07.44	elevator but	TER	Danger Zone Danger Zone, Pre-established Danger, Rhythm	Rhythm (Rising)	zombie attack
				(Fast), Presence (Direct), Contact, Startle,	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
2:07:44	2:09:10	flyboy left behind	HOR	Repulsion (Physical), Repulsion (Psychological)	(Anxiety), Ambient (Danger), Repulsion (Physical)	
2:09:10	2:09:17		REP			
				Safety Zone, Pre-established Safety, Rhythm	Rhythm (Slow), Conversation (Safety), Conversation	
2:09:17	2:09:54	hes dead?	BG	(Slow), Presence (Others), Realization Danger Zone, Pre-established Danger, Rhythm	(Realization), Ambient (Safety)	zombie fest
				(Fast), Startle, Repulsion (Physical), Repulsion	Rhythm (Fast), Abnormal Effects (Anxiety), Repulsion	
2:09:54	2:10:14	zombiefest	REP	(Psychological), Repulsion (Social)	(Physical), Repulsion (Psychological), Repulsion (Social)	change of scene
				Safety Zone, Pre-established Safety, Rhythm		
2:10:14	2:10:35	joke sœne	BG	(Slow), Presence (Others)	Rhythm (Slow), Conversation (Safety)	
		zombiolon dO :-!		Obstruction, Danger Zone, Pre-established Danger,		
2-10-35	2:12:25	zombieland? joke me	REP	Rhythm (Slow), Repulsion (Psychological), Repulsion (Social)	(Anxiety), Conversation (Anxiety), Startle, Repulsion (Physical), Repulsion (Psychological), Repulsion (Social)	
10.00	2.12.20	1100	· VIII	Obstruction, Danger Zone, Pre-established Danger,		
		zombies come up into		Rhythm (Slow), Presence (Indirect), Abnormal	Conversation (Anxiety), Ambient (Anxiety), Repulsion	
2:12:25	2:13:29	heaven	TER	Effects (Anxiety), Repulsion (Social)	(Social)	death of flyboy
0-40-00	0-40 51		DED	Repulsion (Physical), Repulsion (Psychological),	Dla than (Class)	
2:13:29	∠: 13:51		REP	Repulsion (Social) Obstruction, Danger Zone, Pre-established Danger,	Rhythm (Slow)	more zombies
				Rhythm (Fast), Presence (Indirect), Abnormal	Rhythm (Rising), Abnormal Effects (Anxiety),	
2:13:51	2:15:55	end of bigboy?	TER	Effects (Anxiety)	Conversation (Anxiety), Ambient (Danger)	oh hell no!
		<b>J</b>		Danger Zone, Pre-established Danger, Rhythm	Rhythm (Fast), Abnormal Effects (Anxiety), Conversation	
				(Fast), Presence (Direct), Contact, Realization,	(Anxiety), Ambient (Danger), Startle, Repulsion	
2:15:55	2:16:54	bigboy decides to live	HOR	Repulsion (Physical)	(Physical)	
2-16-54	2:17:30		REC	Safety Zone, Pre-established Safety, Rhythm (Slow), Realization	Rhythm (Slow), Conversation (Safety), Conversation (Realization)	end credits
		end credits	BG	(Olow), NealEdioT	(I Calization)	end of movie
2.11.30	2.13.29	ond d odilo	20			GIG OF HIOVIC