# An Analysis of Attitudinal Resources in the PopularThai Online Original Soundtrack, "Orchao-oey" (You) of the Period Soap Opera "Buppe San Nivas" (Love Destiny): Systemic Functional Linguistics and Appraisal Perspective

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#### **Abstract**

Visual appraisal analysis has gained much attention from systemic functiona llinguists (Camelia et al,2016;Economou, 2009;Unsworth,2006) to discuss how images influence the multimodal texts and the visual and verbal appraisal systems are refined and extended (Ngo&Unworth, 2015). While such system addresses some aspects of visual semiosis, detailed analysis of attitudes is little studied in terms of images and verbal elements in a popular Thai period original soundtrack "Orchao-oey" (You) between February 2018 and April 2018, originated from the most famous soap opera, "Buppe San Nivas" (Lovedestiny). Therefore, this study analyses some distinctions of explicit visual inscription from a range of strategies for implicit invoking of attitudes in images underpinning the systemic functional linguistics and appraisal framework. The findings of the study reveal that the use of the distinctive affordances of visual, verbal resources and sound is much presented in the soundtrack concerned and appraisal resources of attitude which are mainly evoked visually and verbally. The study suggests some implications for further research in order to fulfill visual appraisal analysis and multimodal literacy pedagogies are also offered.

**Keywords**: Systemic-FunctionalLinguistics (SFL); Multimodal Text; Visual Appraisal,

#### าเทคัดย่อ

การวิเคราะห์ประเมินสื่อภาพและเสียงได้รับความสนใจอย่างมากจากนักภาษาศาสตร์เชิงระบบ และหน้าที่ (Camelia et al,2016;Economou, 2009;Unsworth,2006) เพื่อวิเคราะห์ว่า รูปภาพมี อิทธิพลอย่างไรต่อข้อความที่หลากหลายและระบบการประเมินภาพและข้อความทางคำพูดได้รับการ ศึกษาและขยายความมากขึ้น (Ngo&Unworth, 2015) แม้ว่าระบบการวิเคราะห์ดังกล่าวได้ให้ความ สำคัญลักษณะบางอย่างของการวิเคราะห์สัญศาสตร์ การวิเคราะห์เชิงลึกเกี่ยวกับทัศนคติยังได้รับการ

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ศึกษาค้นคว้าวิจัยไม่มากทั้งในแง่รูปภาพและองค์ประกอบด้านคำพูดในเพลง ออเจ้า ซึ่งออกอากาศ ระหว่างเดือนกุมภาพันธ์ - เมษายน 2561 และมาจากละครเรื่อง บุพเพสันนิวาส ดังนั้น งานวิจัยจึง วิเคราะห์ลักษณะบางอย่างของภาพและเสียงเชิงประจักษ์จากกลวิธีที่หลากหลายในการแสดงทัศนคติที่ ปรากฏในภาพภายใต้กรอบภาษาศาสตร์เชิงระบบและหน้าที่และกรอบการประเมิน ผลของการศึกษา วิจัยแสดงให้เห็นว่า มีการใช้องค์ประกอบทางภาษาทั้งด้านภาพและเสียงมากในเพลงดังกล่าวและมีการ ใช้คำที่ประเมินที่สื่อแสดงออกทางด้านทัศนคติที่หลากหลายที่กระตุ้นความรู้สึกทางภาพ เสียงและคำ พูด การวิจัยครั้งนี้มีข้อเสนอแนะสำหรับการวิจัยค้นคว้ามากขึ้นเพื่อเติมเต็มการวิเคราะห์ภาพและเสียง และการเรียนการสอนด้านการศึกษาข้อความที่หลากหลาย

คำสำคัญ : ภาษาศาสตร์เชิงระบบและหน้าที่ ข้อความที่หลากหลาย การประเมินภาพและเสียง

#### 1. Introduction

Words, images and sounds make human beings understandthesemantic, emotional and aesthetic effect of the text. However, the pictorial dimension may necessarily concur or not concur with the verbal or sound component. Within the semiotic literature, some researchers (Kress& Van Leeuwen2006; O'Halloran, 2008) have used various semiotic resources of language, image, sound, etc. separately or in combination to study meaning making in different contexts.

In this regard, Wu (2014) argued that picture books which are different from the traditional storybooks are used to supplement a text with a particular purpose. That is, she claimed that illustrations in the picture books help elaborate the story to the readers whereas some storybooks do not merely serve that purpose. To appeal to readers, theuse of visualization is likely to allow them to gain insight and comprehend the dataeasily and effectively (Lankow, Ritchie, & Crooks, 2012; Camelia et al, 2016).

It is well documented that examining the sounds of the human voice and musical sound presents someadvantages related to a communicative motivation when learning languages or other subjects. The following support study contributed to the current understanding of sound patterns in systemic functional semiotic (SFS) theory. Caldwell (2014) provides some analyses involving a systematic, principled method which helps identify interpersonal meanings in sound and draw on various aspects of the appraisal framework, and the respective sound features of the rap and sung voice. In addition, Wingstedt et al (2008) studied meaning making functions of narrative media music, awareness and knowledge about such functions expressed through the different modes of musical sound and speech. They found that what peoplethink mainly depends on whatthey hear.

It is worth mentioning that the visual mode is very crucial in the context of digital media with its emphasis on images (e.g. Flickr, Pinterest, news websites combining verbal texts and images). Similarly, in systemic functional semiotic (SFS) theory, many researchers have studied image—verbiage relations in avarious contexts, including print advertisements (Cheong, 2004) and websites (Baldry&Thibault, 2006; Lemke,

2002) Likewise, Knox (2007) analyzed thumbnails using tools from SFL, and three socio-historical perspectives (news photography, typography, and punctuation) are studied according to SFL semiotics. It highlightssome functions which are less as images and more as an expansion ofthe potential of language in computer-mediated communicationin the specific discursive context of the home page of the online newspaper "Sydney Morning Herald" (2002-2006) and this supports closer intimacy between viewers and images. According to Economou's study concerning the intersection of social semiotic theory and critical discourse analysis (CDA) and implementing systemic-functional (SF) theory to verbal-visual news media texts, In particular, Economou (2009) found that visual meaning facilitates an investigation of evaluative stance in visual-verbal text.

For semantic expansion which is also related to the materiality of the multimodal artefact, SFL researchers introduced and integrated different resources, including the technology or other medium involved like books and interactive digital media (Jewitt, 2006). However, the study of language with more than two semiotic resources which work together to construct meaning in multimodal (or multisemiotic) phenomena (e.g. print materials, online discourse, videos, websites, any objects in the real world and day-to-day events)in various media may lackin-depth theoretical investigation with particular focus. Within and across complex multimodal phenomena for the changing world society, the necessity of exploring and restringing multimodal semantics patterns is still being discussed by multimodal researchers (Economou, 2009; Lemke, 2002; O'Halloran2008; Unsworth, 2006) because this raises a big issue in multimodal analyses on how we describe interaction between multimodalities. The more multimodal resources coexist, the more we realize that analytical tools become more complex. In addition, the possibility of finding evaluative system (appraisal) for language, images and other multimodalities still need further studies because as it is indicated by Andersen et al (2015, p.56), different realizations of hierarchies are framed up byappraisal and ambience apparently but people can negotiate their feeling when they get into paralanguages (facial expression), music and image in spite of the same valeur when they move from one modality to another which may rarely be found. Therefore, this study aims to analyse the lyrics of an online original soundtrack "Orchao-oey" (You) in the Thai period soap opera "Love destiny, part of an aesthetic genre that weaves words, sung voice and pictures together to attract readers. Having social semiotics and appraisal theory as theoretical background, this study will provide an insight into the use of the visual verbal semiotic and sound resources in this specific online context.

Because of the degree of delicacy in SFL, Appraisal Framework enables highly refined distinctions (e.g. category and subcategory of evaluative language) to be made in the analysis of the verbal and non-verbal elements. Therefore, Appraisal Framework, particularly in terms of the system of attitude, visual, verbal resources and sounds, is applied to use a tool to analyse the text in this study. Theoretically, appraisal framework (Martin & White, 2005) covers the following distinctions: (1) Attitude: deals with our feelings, involving emotional reactions, judgements of behaviour and evaluation of things, (2) Engagement:monogloss/heterogloss and (3) Graduation: force/focus.To

understand the meaning of interpersonal relationship, it is argued that this framework could help clarify the way in which language is used to evaluate, negotiate stances that the readers take in the text, manage interpersonal positioning and build relationships with interlocutors (White, 2015; Mohammed& Abdullah, 2018).

That is to say, people create visual images or sounds to accompany their inner and outer speech. The visual, written, and oral texts interrelate as well as support or back up each other. In the same way, facial expressions, stance and gestures in a photo areassociated with basic emotions such as happiness, sadness and fear. At the same time, in appraisal terms for language analysis, Martin & White, (2005, p. 49) state that "The affect values (basic emotions) most easily visually expressed are basic values in the three groups identified in the attitude system – unhappiness /happiness (sad/happy), insecurity (afraid), dissatisfaction (angry)."

In addition, verbal affect and other subcategories of the appraisal system like judgment (the evaluation of human behavior) and appreciation (the evaluation of objects and products) can be inscribed visually (explicit attitude) or evoke (implicit attitude) through depictions of human bodily expression (Economou, 2009). That is to say, through three subcategories: affect, judgment and appreciation, visual attitude can be either expressed explicitly (inscribed) or implicitly (evoked) by writers.

Similarly, visual and verbal elements can be used as a tool toanalyse how the speaker/writer values the things within a text according to the appraisal theory within SFL.Consequently, the analysis of appraisal resources was adapted by Economou (2009) for analyzing these resources verbally and visually in news photos. According to Economou (2009), visual attitude can be either inscribed (explicit attitude) or evoked (implicit attitude) and is divided into three subcategories: affect, judgment and appreciation according to Martin & White (2005). That is, whenshowing unhappiness/ happiness (sad/happy), insecurity (afraid) and dissatisfaction (angry), Affect can be expressed in the visual topography of facial expressions and body gestures (Economou, 2009) of depicted participants, (Martin & White, 2005, p.52). Judgment (Martin & White, 2005, p.52), may be differentiated between social esteem and social sanction. Within social esteem, three subcategories are categorized namely: normality (how usual or exceptional people are), capacity (how capable people are), and tenacity (how determined people are). In fact, social sanction refers to veracity (honesty) and moral propriety (moral/legal codes to be used in the judgment of behavior (Economou, 2009). Appreciation (Martin & White, 2005, p.56), is divided into three subcategories: reaction (impact and quality), composition (balance and complexity), and valuation (worth and value). In news, photos affect is the only regularly subdivision inscribed (Economou, 2009) whereas in cartoons, all three types of attitude can be inscribed and evoked by using visual resources (Swain, 2012).

However, it is argued that not all texts consist of verbal content only. Apart from the verbal mode, the visual and sound modes are also often enabled in modern online texts. Visual and multimodal texts, however, do not function in the same way as verbal texts. Verbal texts rely on words and sounds to communicate a particular meaning

while visual texts may use colour or other visual elements to make meaning due to the appraisal system. In fact, the visual systemsmake appraisal analysis to be expanded to images and to verbal-visualtexts whereas in this study, appraisal analysis provides new evidences for the ideological and evaluative power like sound, images and words in the specific text, Thai original sound track, "Orchao-oey" (You) in the soap opera "Love destiny". It is justified that this framework is especially crucial in the context of social communication because modern web texts are increasingly visual and multimodal.

### 2. Context of the study

To give the background of this study,the most recent touching and romantic Thai song (original soundtrack)from the most popular period soap opera "Buppe San Nivas" (Love Destiny) in Thailand reaches the audience(after breaking the highest rating record in April 2018) through the main male character's mixed emotions(that indicates "love"): passion, tenderness, fear and kindness. The storytakes place in a historical site, centering around the lives of the famous celebrities" in Thai history during the reign of KingNarai (1633 – 1688). Romantic Love, along with the struggle for political power among nobles, become the focus of this popular soap opera, broadcasted by channel 3 Thailand between 21 February 2018 and 11 April 2018(Thongtep, 2018).

The song lyrics "Orchao-oey (You)" presents the important dilemma in the soap opera: a noble, caring young man who is very anxious because he feels "love" that tends to be mysterious and mischievous enough to make him wonder what will happen next. Indeed, he falls in love with the lovely young woman, very sincere with a sense of humor according to the soap opera. Therefore, he hastransferred his emotions to descriptive words in this love song and gets the audience in a good mood because of his verbal expressions.

According to this love song that focuses on the climax scene of the soap opera, this noble handsome man always takes a deep breath, misses his lady and starts to float away mentally and physically. He seems to be riding on the high of love, smiling from ear to ear and feels the warmth tingling in the pit of his stomach. The woman is irresistible to him. So it feels like a thousand burning needles to his heart. In summary, this song shows all the complexand mixedemotions of the young man. The main character is filled with loveand particularly masters relevant words. He adds his repetitive emotional intensity associating his love throughout this song.

To see the text of the song from the soap opera concerned, the English transcription of the Thaisong"Orchao-oey" (You) downloaded from http://clip.teenee.com/thaimusic/59631.html (JaAEYja) is translated from Thai into English and presented below.

ออเจ้าเอยเคยรู้หรือไม่ตรงนี้ยังมีใครฤทัยห่วงหา
Dear darling, have you ever known that someone here has longed for you?
ออเจ้าเอยงามประกายนภาขอมองไม่ยอมนิทราขอชื่นตาให้พี่ชื่นใจ
Dear darling, you are as bright as the shinysky. I cannot sleep, I just want to take

a look at you and let me appreciate you.

กลัวฉันกลัวว่าจันทร์จะลาจากฟ้าไกลกลัวฉันกลัวว่าใจจะขาดเมื่อร้างลา I fear, I fear the moon will leave the sky faraway. I fear, I fear my heart will break during our farewell. กลัวฉันกลัวออเจ้าจะไกลไม่เห็นหน้ากลัวชะตาจะมาพรากเรา I fear, I fear that you will leave me. I fear destiny will part us. เพียงลับตากระวนกระวายและร้อนรนเพียงมืดมนพี่จะทานทนได้รึเปล่า When you disappear, I will feel worried and anxious. Darkness, how can I endure? เพียงยิ้มมาหัวใจเบิกบานคลายทุกข์เศร้าเราหนอเราคะนึงถึงออเจ้าเอย When you smile, my heart is uplifted and my sorrow is relieved. For me, I really miss you.

### 3. Research objective

To study the verbal, visual and sound appraisal resources which are systematically applied in a critical discourse analysis study of a verbal-visual text from the song "Orchao-oey" (You)

#### 4. Research questions

How and to what extent are evaluative meaningsco-articulated across visual, verbal and other semiotic modalities in the song lyric"Orchao-oey" (You)?

### 5. Methodology

### Framework and data analysis

Based on Systemic Functional Linguistics, the analysis in this study employs the visual and verbal appraisal framework with the extension of sound mode to analyse evaluative language patterns deployed in an online original soundtrack. The researchersapply a qualitative content analysis of the song lyric "Orchao-oey" (You) to find the most significant appraisal resources and the meaning potentials of the visual and verbal appraisal resources for the analysis with the extended resource, the sound mode in the context of a Thai literary text, the song lyric of "Orchao-oey" (You). The deployment of evaluative language in English and this Thai songs' lyrics and online illustration (Figure 1) was analysed from the Thai and English transcripts, using the visual and verbal Appraisal framework (as adapted from the appraisal system with the extended sound mode) for Attitude system. Thecategory of Engagement and Graduation

was not explored in this study as it was anticipated that Engagement and Graduation was not a major evaluative category in this text type. Due to some limitations and particular focus in this study on a proposal for refinement and extension of the Attitude system, the adapted framework for Graduation and Engagement are not included.

### 6. Analysis and findings

The findings of the analysis in this study are presented in the following sub-topics.

### 6.1Findings on the Attitude system

#### 6.1.1 Fear (Affect)

The repetitive words "fear" was grouped under "Insecurity" (Martin & White, 2005), dealing with a negative type of feeling. However, the feeling of "appreciate" can be associated to positive feelings as found in this data. The two instances of the feeling "Positive" and "Negative" are:

- (1) "Let me appreciate you". (positive)
- (2) "I fear, I fear my heart will break during our farewell". (negative)

#### 6.1.2 Desire (Affect)

Examples of some lexical instantiations of "Desire" are as described in Martin & White (2005) including, "long for" and "miss" (p.48).

- (1) "I really miss you".
- (2) "Have you ever known that someone here has longedfor you?"

Here "endure" stands for Dissatisfaction, while the others are all Satisfaction; however "darkness" is an Invoked entity of Dissatisfaction, that is, to suffer from parting from his lady. The item "darkness" is interpreted as Insecurity in this context since darkness of such kind normally scares people. Overall "anxious" accounts for a state of disquiet.

### **6.2. Findings on appreciation**

Appreciation is sub-divided as Reaction, Composition and Valuation (Martin & White 2005). The category of Reaction, the two delicate choices of Impact and Quality were differentiated by lexical items. Quality proposed in this paper is due to Ngo and Unsworth (2015) who said that Impact means an interactive emotive response to things while Quality refers to a designated standard. An example of this is in the lyric (line 2): "you are as bright as the sky".

In addition, refinement of appreciation can be divided into Material capacity (physical performance). According to the song, the narrator said "...destiny will part us"; "I just want to take a look at you"; "When you smile"; "When you disappear". These sentences are the results from two sides of feelings: negative and positive. That is to say, the woman's reaction has an effect on the male narrator. Everything seems bright and nice for him when the woman is good to him whereas things become worse if the woman does not please him. As a consequence, the man keys in the consequence of

her appraisal. Finally, he concludes with a positive or negative appraisal of the product, there by justifying her reaction (Reaction-Quality). More delicate linguistic strategies likemental/cognitive performances are shown by the sentence: "....my heart is uplifted and my sorrow is relieved". This can be explained by the probe question that provokes an emotive reaction "Did it grab me?" (Martin & White 200, p.56). It appears this can be classified as Impact because the appraiser is passive.

### 6.3 Findings on Judgement

The analysis of evaluative language resources for expressing attitudinal meaning indicated that within the system of Judgement, there are some interesting findings. As its taxonomy suggests, Capacity as described in Martin & White (2005) refers to the judgement of how capable people are. The realisations of Capacity found in this study are so distinct in meaning that the data is expressive of a more delicate arrangement for this category, Refinement of judgement-capacity. Some examples from the lyrics are: "...Darkness" how can I endure? or ".... I cannot sleep". According to Martin & White (2005), the meaning of Normality was described commonly as "how unusual someone is" due to the probe question "How special?" (p.53). In this study, in contrast, it was prominent that the range of realizations of Normality is found in the sentence "you are as bright as the sky". Interestingly, the most important category in this text is Affect (Martin & White, 2005, p.43) because it has the best number of all, and also there are numerous rhetorical devices that work for it.

# 6.4 Findings on Visual, Sound Appraisal and Metaphor

Based on Caldwell (2014), this study is alsoable to apply system of appraisal to the mode of sound. More particularly, this study candescribe the interpersonal properties of sound by making analogizes from the melody, and sung voice quality to the appraisal.

According to the text, the man who is the main character in the soap opera has an elaborate and delicate way of expressing his emotion, whether by words or by acts or sung voice. It reveals an emotional state of two parties, as suggested by "I" (sensor) and "Orchao" (it is ancient word for "you" in Thai and it is almost equivalent to "thou" in English). The picture that matches well with the lyric (Figure 1) shows the climax scene in the soap opera when the man who is a narrator in the song expresses his views and reacts to the woman he loves as the following: "I fear (mental process) you ........" (appraisal of a person). His soft voice in the song is so sweet and tenderspecially when he repeatedly called the woman "Orchao" so that this convinces the listeners to believe that he is really in love with the woman (participant).

Besides, the analysis of visual appraisal (Figure 1 below) can identify the text whether the sentiment expressed by the participant is negative or positive. The visual appraisal term(s) associates with the following verbal metaphor. That is, the rhetorical device in this literary text is metaphor. Following Cognitive Linguistics, Peng (2008, p.671) argued that "metaphor can occur in mapping from one conceptual domain to another

where the Source Domain (SD) is applied to map the meaning and thereby that domain is mapped upon to Target Domain (TD)". In thissense, she further argued that metaphors in this sense may construct themeaning of Appreciation because it is discussed that the images which are invoked are motivated to grab readers withun-expectancy (Impact) and amazement of complexity in images (Complexity) (Nina, 2008). Therefore, to see this reality, the narrator takes "farewell" or "unfulfilled desire" (TD), in the lyrics, as darkness (SD), which sounds sorrowful in that "Darkness, how can I endure?" According to Appraisal meaning in the literay text, another simile is "as bright as the shiny sky". The man compares the beauty of ladywith the moon, the traditional Thai simile for woman in an ancient literary text. In the song, the moon leaves the sky means the woman leaves him. With the second lyric: "as bright as the shiny sky", the woman brightens up his life.



Figure 1. The illustration of the Video clip from the song " Orchao-oey"ของจ้าเอย (You), downloaded from http://clip.teenee.com/thaimusic/59631.html(JaAeyja)

According to the metaphor, "unfulfilled desire" which is illustrated in Figure 1, verbal affect can be inscribed visually through depictions of human bodily expression and dark color at night, but there is some ambiguity regarding the specific emotion inscribed (Economou, 2009) in Figure 1. Sometimes a visual item in this photo may be

recognised by readers as a trigger for a specific emotion(Martin & White, 2005 p.46), which may thus be evoked in respect to a visual participant-emoter like: Does the woman respond to his love?" and "Would he probably have a broken heart?" According to the song, it seems like his world is consequently filled with darknessbecause of his despair. That is to say, love or compassion which he longed for, can be compared to the light which drives out darkness. Thus, figure 1 above presents two main characters in the darkness (illustrated song lyrics of "Orchao-oey") with the negative emotion inscribed on the female's face, which could be "concern" or "worry" (instead of love or compassion with her male interactant).

From the analysis, it is argued that Appraisal theory developed by Martin & White (2005) can be used well to analyse the literary texts, lyric from the song "Orchao-oey" (You)from the perspective of the evaluative properties. Therefore, this study finally imparts Appraisal devices for evaluating the combination of images, sound and wordsthat work together to createfeeling and present reflective stancesofthe main characters who is the narrator in the song and most of all the combination of images, words and sounds which help to create effective images in the audience's minds during literary communication.

#### 7. Discusion and conclusion

The findings of the study can be concluded in terms of: 1) the use of the distinctive affordances of visual, verbal resources and sound is much presented in the soundtrack concerned; and 2) Appraisal resource of attitude is mainly evoked visually and verbally. The Appraisal system in this study involved Affect, Judgement and Appreciationdoes not only evaluate verbal resources, but also sounds and images. So far, almost all aspects of SFL have experienced applications to literary studies. This present study has provided additional support for further evolution of the appraisal framework as defined, refined and extended by Martin &White(2005), Ngo &Unsworth (2015) and Economou (2009) respectively.

It is concluded thatthe refined Attitude systemworks well in this current study to enable a more delicate coding of attitudinal meaning in complex multimodal contexts, which requires extended mode for appraisal like sounds and other multimodals which pedagogically plays a very important role in EFL literary education in a modern Thai society that necessitateslearners' creativity and critical thinking. Findings from the study support Thailearners/educators to develop a repertoire of esthetics and linguistic resources in realizing the beauty of appraisal that creates these attitudinal meanings issues with categorisation arose with the sub-systems of Affect, Appreciation and Judgement.

## 8. Recommendations and implications

This study is based on the observation of songs and illustration from the specific website. However, it is considered that implications of limitation verbal and non-verbalresources should be concerned. It is also suggested that future research may

be extended by studying intermodal complementarity of certain movies, where meanings across multiplemodes (e.g.movement, gesture, sound, verbal elements in films) are different but complement each other, marking the most promising approach for future development.

#### References

- Anderson, H, T et al (2015). Social Semiotics: Key Figures, New Directions. Routledge. Ansari, A., &Riasi, A. (2016). An investigation of factors affecting brand advertising success and effectiveness. International Business Research, 9(4), 20-30. http://dx.doi.org/10.5539/ibr.v9n4p20.
- Barthes, R. (1977). Image, music, text. London: Fontana Press.
- Bertin, J. (1983). The semiology of graphics: Diagrams, networks and maps. University of Wisconsin Press.
- Caldwel, D. (2014). The interpersonal voice: applying appraisal to the rap and sung voice. Journal Social Semiotics. Volume 24, 2014 Issue 1.
- Camelia et al (2016). Beyondthe Narrative Visualization of Infographics on European Issues Studies in Media and Communication, Studies in Media and Communication Vol. 4, No. 2; 2016 Vol. 4, No. 2; December 2016 ISSN 2325-8071 E-ISSN 2325-808X Published by Redfame Publishing URL: http://smc.redfame.Online Published: September 14, 2016 doi:10.11114/smc.v4i2.1790 URL: http://dx.doi.org/10.11114/smc.v4i2.1790.
- Baldry, A. & Thibault, P.J. (2006). Multimodal Transcription and Text Analysis. London: Equinox.
- Cheong, Y.Y. (2004). The Construal of Ideational Meaning in Print Advertisements, in K.L. O'Halloran (ed.) Multimodal Discourse Analysis: Systemic Functional Perspectives, pp. 163–95. London: Continuum.
- Cheung, L. M. E. (2016). Infographic design for whistleblowing: Systemic functional multimodal discourse analysis (SF-MDA) of interpersonal meanings in an online newspaper infographic on ivory poaching.http://dx.doi.org/10.13140/RG.2.1.3669.7448.Debating Europe-Snapshot Report 2014 Retrieved from http://www.debatingeurope.eu/reports/2014-report/.
- Economou, D. (2009). Photos in the news: appraisal analysis of visual semiosis and verbal–visual intersemiosis. Unpublished. D dissertation, University of Sydney. RetrievedJuly 14, 2018 fromhttps://ses.library.usyd.edu.au/handle/2123/5740.
- Halliday, M. A. K. (2004). An introduction to functional grammar. 3rd edition. Revised by C. Matthiessen, London: Hodder Arnold.
- Holsanova, J., &Holmqvist, K. (2006). Entry points and reading paths on newspaper spreads: Comparing a semiotic analysis with eye-tracking measurements. Visual Communication, 5(1), 65-93.http://dx.doi.org/10.1177/1470357206061005. JaAeyJa.Orchao-oey is coming. Retrieve 11 July 2018 from http://clip.teenee.com/thaimusic/59631.html

- Jewitt, C. (2006). Technology, Literacy and Learning: A Multimodal Approach, London: Routledge.
- Jones, J. (2015). Information graphics and intuition: Heuristics as a techne for visualization. Journal of Business and Technical Communication, 29 (3), 284-313. http://dx.doi.org/10.1177/1050651915573943.
- O'Halloran, K. L. (2008), Inter-semiotic Expansion of Experiential Meaning: Hierarchical Scales and Metaphor in Mathematics Discourse, in C. Jones and E. Ventola (eds), New Developments in the Study of Ideational Meaning: From Language to Multimodality. London: Equinox.
- Knox, J.S. (2007). Visual-Verbal Communication on Online Newspaper Home Pages, Visual Communication 6(1):19–53.
- Kress, G. (2003). Literacy in the new media age. London: Routledge. http://dx.doi.org/10.4324/9780203164754
- Kress, G., & Van Leeuwen, T. (2006). Reading images: The grammar of visual design (2nd ed.). London, New York: Routledge.
- Lankow, J., Ritchie, J., & Crooks, R. (2012). Infographics: The power of visual story-telling. Wiley. Studies in Media and Communication Vol. 4, No. 2; 2016.
- Lazard, A., & Atkinson, L. (2015). Putting environmental infographics center stage: The role of visuals at the Elaborationlikelihood model'scritical point of persuasion. Science Communication, 37(1), 6-33. http://dx.doi.org/10.1177/1075547014555997.
- Lemke, J.L. (2002). Travels in Hypermodality. Visual Communication 1(3): 299–325.
- Martin, J. R., & White, P. R. R. (2005). The language of evaluation: Appraisal in English. New York: Palgrave Macmillan. http://dx.doi.org/10.1057/9780230511910.
- Mohammed, M.M. & Abdullah, F.R. (2018). The Production of Stance in Sport Discourse. Journal of Basra researches for Human Sciences, Vol. 43, No.3;2018, pp 38-52.
- Ngo, T & Unworth, L (2015). Reworking the appraisal framework in ESL research: refining Attitude. Functional Linguistics 2:1 DOI 10.1186/s40554-015-0013-x.
- Nina, N (ed.) (2008). Systemic Functional Linguistics in Use. Odense Working Papers in Language and Communication vol. 29 (ISSN 0906-7612, ISBN: 978-87-90923-47-1).
- Peng, X (2008). Evaluative Meaning in Literay text: The first step towards Appraisal Stylistics. Systemic Functional Linguistics in Use, OWPLC29, 2008, pp.665-684.
- Segel, E., &Heer, J. (2010). Narrative visualization: Telling stories with data. IEEE Transactions on Visualization and Computer Graphics, 16(6), 1139-1148. http://dx.doi.org/ 10.1109/TVCG.2010.179
- Smiciklas, M. (2012). The power of infographics: Using pictures to communicate and connect with your audiences. Indianapolis: Que.
- Swain, E. (2012). Analysing evaluation in political cartoons. Discourse, Context & Media, 1(2-3), 82-94. http://dx.doi.org/10.1016/j.dcm.2012.09.002.
- Thoughtep, W (2018). The playwright of Love destiny reveals the tips for the popular success. Retrieved 11 June 2018 from https://www.bbc.com/thai/thailand-43413965.