SOCIAL MEDIA AND TELEVISION: A BIBLIOGRAPHIC REVIEW BASED ON THE WEB OF SCIENCE

Medios sociales y televisión: revisión bibliográfica a partir de la Web of Science

Francisco Segado, María-del-Mar Grandío and Erika Fernández-Gómez

Francisco Segado-Boj holds a B.A. Degree in Journalism and a Ph.D. Degree in Communication from the Complutense University of Madrid (UCM). He is an associate professor at Universidad Internacional de la Rioja (UNIR), where he coordinates the doctoral programme Knowledge society and action in the fields of education, communication, rights and new technologies. Former research fellow at UCM and visiting scholar at University of Central Lancashire. Current director of the Digital Communication & Society (Coysodi) research group. His work focuses on digital communication (social media and digital journalism), science communication and political cartoons. He has published around twenty papers about these issues in scientific journals such as Telematics & informatics, First Monday, Historia crítica, Telos, Revista latina de comunicación social, Comunicación y sociedad, or Hispania, among others.

http://orcid.org/0000-0001-7750-3755

María-del-Mar Grandío is an assistant professor at the School of Communication and Information Studies in the University of Murcia. She lectures on audiovisual fiction and transmedia storytelling. She has been member of the Management Committee of the COST Action “Transforming audiences, transforming societies” (2010-2014) and currently in the COST Action “New possibilities for print and digital media” (2012-2015). Co-author of Sharing economy (EOI, 2014) and Strategies of communion in social media (Gedisa, 2013). She focuses her research on reception studies and new media consume, transmedia audiences and fandom. Index h=9 in Google Scholar.

http://orcid.org/0000-0002-2577-4059

Erika Fernández-Gómez is an assistant professor at Universidad Internacional de La Rioja (UNIR). She got her PhD in the University of Vigo with European mention. She has a degree on Advertising and public relations from the same university and she is specialized in advertising and media management. She is accredited by Aneca. She teaches at UNIR since 2010 in the Degrees in communication and marketing and in the Master degree in audiovisual scripting. She is part of the research group Digital Communication and Society (Coysodi). Her research interests focus on television (especially fiction), advertising, child audience, and social networks. She carried out her doctoral thesis about the Spanish second public channel (La 2) and its shows aimed at young targets.

http://orcid.org/0000-0002-7088-1814
Abstract
One of the most important trends in current television research has to do with the increasing impact of social media on viewing and consumption. This article reviews the literature on social media and television included in the Web of Science database from 2005 to 2013 in order to find the main research questions guiding academic research within media studies. The topics investigated included the theoretical approach and definition of social television, the central role of Twitter as the main social tool for second-screen activities, the prominence of “reality TV” as the most social genre on television, and new mainstream forms of television fandom. The conclusion of this article reflects on possible limitations of these studies and new paths of research.

Keywords
Social television; Social media; Twitter; Audiences; Review; Web of Science.

2. Methodology
This literature review covers articles from 2005 to 2013 that deal with both television broadcasting and social media (specifically social networking sites). In order to produce the highest quality list, only articles and conference papers indexed in the Web of Science (WoS) core collection were selected. These articles were retrieved by conducting multiple searches for items that included the topic ‘social television’ as well as the word ‘television’ and other terms related to social media and web 2.0. These terms were chosen following the same structure outlined in Gold et al. (2011) combining global labels such as ‘social media’ or ‘social network’, and other specific features and services such as ‘Facebook’. These search terms were employed to locate articles dealing with the wider concept of ‘social media’ and with...
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the most popular services of web 2.0 such as blogs and social networking sites (table 1).

Initially 173 articles were retrieved using the search terms. Their abstracts were manually reviewed and articles were removed that did not specifically deal with the television viewer’s use of social media and the relationship between it and television. This left out of the sample several articles that mainly focused on one of these two elements but tangentially mentioned the other (e. g. Lieberman; Koetzle; Sakiyama, 2013; Fogel; Krausz, 2013; Wong; Gupta, 2011, to name a few), articles in which both elements were tangentially mentioned but the focus was a different topic altogether (as Protudjer et al., 2012 or McNeil; Brna; Gordon, 2012), or articles that were restricted to technical issues (such as Montpetit; Médard, 2012). After removing these articles, 39 remained and comprised the corpus of this study. The 39 articles were processed manually using content analysis to test the following hypotheses:

H1. The number of articles about social media and television is growing.

H2. Most of the research about social media and television is published mainly by Communication Studies journals.

H3. Research on social media and television is mostly empirical, not theoretical.

H4. Most of the research about social media and television uses quantitative methods instead of qualitative or mixed methods.

Besides this quantitative and descriptive analysis, our review was also guided by the following exploratory research question and sub-questions:

RQ1: What are the main areas of interest in the research on social media and television?

RQ1.1 What are the research methods being used in these studies?

RQ1.2 What are the limitations of these studies, so far?

RQ1.3 What are the main conclusions in these studies?

Following other systematic reviews (Schleidgen et al., 2013; Dyer; Das-Nair, 2012) a thematic analysis was used to extract the key issues studied in each article and to identify the aspects mentioned in the sub-questions. This analysis allowed us to identify the most relevant issues regarding social media and television as well as the main approaches and the issues that still remain unknown and unstudied by researchers. Quantitative approaches to the topics were used and global data will be presented. Predominant research topics on social television will be explained more in-depth through a qualitative approach based on a thematic analysis on the selected papers.

3. Quantitative results

The total number of papers published about social television has been growing since 2006 (see figure 1). The concept of Social TV peaked in 2008, although it is still a relevant topic of study. Fandom shows a stable interest among researchers.

Figure 1. Number of papers published per year and by topic

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Since 2006, fandom is much more than regular viewing and engagement with a television show. It is a framework of taste, an identity and the sense of belonging to a particular community; those who consume and deeply get involved with a specific cultural product. The study of second-screen activities shows a steady increase since 2009.

According to the WoS classification of the journals’ research areas, the most interest in social television comes from Communication Studies, followed by Computer Sciences and Engineering (see figure 2). Slight differences exist between the disciplines and popularity of the four predominant topics; Computer Science and Engineering journals have published the most about social TV, while Communication journals published the most about second-screen activities (see table 2). Most of the research on social television has used quantitative methods (surveys, content analysis) more frequently than qualitative tools (discourse analysis, in-depth interviews, focus groups, etc.). Only seven papers included a theoretical approach to the study. Few papers combine both quantitative and qualitative perspectives or follow a mixed methodology such as network analysis (see figure 3).

Regarding specific topics, articles about the use of social media as a second-screen and a promotional and marketing tool do prefer a quantitative approach; however, articles about social television and fandom show a tendency towards a theoretical and qualitative focus (see figure 3).

4. Qualitative results

4.1. Social television: making technology more social than ever

Current research about new television systems which include social media features has dealt mainly with the way users interact in this new environment (Harboe et al., 2008; Metcalf et al., 2008) and the perceived usefulness of these devices (Shin, 2013).

For Chorianopoulos and Le-Lekkos (2008, p. 115) social television is an easy-to-use audiovisual system that gets viewers to communicate with each other by employing synchronous or asynchronous interpersonal communication modalities. Pagani and Mirabello define social television as:

“an emerging new technology medium that supports and integrates social interaction, recommendations, ratings, reviews, and interactive participation among viewers via text chat, audio, or even videoconferencing” (2011, p. 43).

According to these studies, social television is seen as an...
adequate medium to provide distraction during commercial breaks and other slow parts of a show, but above all is seen as a tool to keep in contact with relatives and other loved ones (Harboe et al., 2008). Not surprisingly, sociability is one of the most valued features of these platforms (Metcalf et al., 2008, Shin, 2013). Shin (2013) concludes that users are mainly attracted to social television because of the social aspects.

Network operators, such as cable television, are investigating multiprofile architecture to deliver a social media television experience to viewers. As explained by Carlucci (2010), social television explores the contributions of television, web-personal computer, and mobile components to the overall experience.

The hybridizing of television and computer offers new possibilities to enhance the enjoyment of viewing while forging a greater affinity between group members based on shared viewing experiences. One of the first articles published on this issue was related to one specific group: the elderly. Sokoler and Sánchez-Svensson (2008) reported on an early experience with the design of a social television system for senior citizens that used the concept of “presence remote” making it possible for elderly people to notice others and be noticed by peers within their local neighborhood as they watched television. Another more recent article by Mu et al. (2013) proposed a web-based video storytelling system for members of a large community to edit, broadcast, and report their own stories, similar to what a professional television broadcaster does.

Above all social television is seen as a tool to keep in contact with relatives and other loved ones (Harboe et al., 2008).

4.2. The role of social media in social television

Social television researchers have focused much of their attention on social media as a second screen where the television consumption experience is expanded. Social conversation and interaction, implying television consumption, does not only take place in specific television systems, but also through conventional social media and social networking sites. Diakopoulos and Shamma (2010) explained the transformation of media events into “social video experiences” through a case study of conversation on Twitter about the first U.S. presidential television debate in 2008 between Barack Obama and John McCain. Highfield, Harrington and Bruns (2013) also explored Twitter as a backchannel of a Eurovision contest in Australia. Regarding methodology, the method more frequently applied for analyzing and tracking the conversation on social media are discourse and content analysis (Norman, 2012; Anstead, O’Loughlin, 2011) and data analysis of social network maps (Larsson, 2013), level of interaction between users (Larsson, 2013; Anstead, O’Loughlin, 2014), frequency of messages (Anstead, O’Loughlin, 2011) or type of device used to tweet (Lochrie; Coulton, 2011). Others authors opted to employ complementary methods like virtual ethnographic techniques (Norman, 2012).

These studies have found how the confluence of social media and television has established a new television consumption logic where the “viewer can use social media to publish and learn new information, and engage in discussion” (Anstead; O’Loughlin, 2011: p. 457). Social media has turned into a channel which “may offer a forum for public commentary on and symbolic resistance” to certain issues (Norman, 2012: p. 316). Future studies should investigate to what extent social media comments about television programs reinforce or undermine the dominant discourses in traditional media.
4.3. Relationship between social television and reality TV

The correlation between reality television consumption and the use of social media has been tested through various studies (Stefanone; Lackaff, 2009; Stefano; Lackaff; Rosen, 2010). According to these studies reality television consumption is positively related to: time spent in social networking site profiles, the number of connections a user has on social networking sites, the proportion of users’ connections in online social networks who they have never met face-to-face, and the tendency to share their photographs on social networking sites (Stefanone; Lackaff; Rosen, 2010). Yet, this correlation does not imply causation between exposure to reality television and the use of social media. As the authors of these studies remark, these studies do not consider other factors such as personality (voyeuristic trends, for instance) or different preferences toward subgenres of reality television (Stefanone; Lackaff; Rosen, 2010).

4.4. Social networks as a promotional tool for TV content

Scientific literature shows how social networks have not only changed television consumption patterns, but they have also affected the way in which television channels promote their content through these new tools as they seek a higher level of engagement from their audience. It is possible to test the effect of social media promotion by analyzing Twitter users to determine what these viewers-followers liked the most about their favorite sites and their motivations for following local television on microblogging networks. Their study concluded that Twitter could be useful to understand the preferences of the audiences. Nevertheless, not all the viewers of a show use social networks actively.

The use of second-screen strategies via the internet increases audience involvement and contributes to the success of television shows. Future studies should investigate to what extent social media comments about TV programs reinforce or undermine the dominant discourses in traditional media.

4.5. New expressions on TV fandom as a mainstream activity

Social television has changed the way fandom feels and expresses itself through new media. Fandom is still a self-awareness and self-determination of fans as fans. But one of the new characteristics is the “mainstreaming of fandom”, quite different from the previous understanding of the term based on cult status and unique elite. Leora Hadas and Limor Shifman studied the fan-producer relationship with a case study of the TV series Doctor Who, a cult series revived by a fan turned producer. This case study demonstrates how fans do not present resistance to the mainstream. In their view, fandom must acknowledge that even if web 2.0 platforms make it easy for fans to get organized and express their opinions, their position is no more privileged than it has ever been (2013).

5. Conclusions

This review highlights the increasing importance of social television within high-profile academic research, especially within communication and computer science fields. The main conclusions highlight how viewers are attracted to social television because of its social aspects (connection to their peers, conversation, and second-screen activities). This review also found a lack of studies about the routines and habits of television viewers on social platforms to explain why television viewers comment and interact with others through instant messaging services such as Telegram, Line, or WhatsApp. Regarding methods, very few studies employed user-centered methodologies, such as surveys or focus groups, or in-depth interviews. Social television research should combine quantitative and qualitative methodologies to explain the motivations and reasons which drive users to comment, who users expect to read their comments, and what kind of information they expect to find on social media. Also, studies should expand and cover more cases and scenarios. Most papers analyzed are reduced to comments on a unique case (one show) and one cultural scenario (users from only one country). A cross-cultural approach on social television should be undertaken, along with a wider perspective of the phenomenon taking into account the multiphase consumption of television within a transmedia scenario.

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