1. Introduction

Mobile payment research started soon after the first payment transaction was conducted with a mobile device in 1997. In Finland, Coca Cola experimented with vending machines that accepted SMS payments. After a decade of research, a literature review written by Dahlberg et al. (2008b) was published in the Electronic Commerce Research and Applications journal. The review reflected the authors’ cumulative understanding of mobile payments, which they had independently investigated in several countries and continents for several years. After producing a fair part of the literature on this topic themselves, the authors felt that there was a need to provide guidance for future research. Their main motivation was that mobile payment issues were not fully explored by the academic community.

In fact, a considerable number of the publications focused mainly on two issues: technology and consumer adoption. Interestingly, at the time, few consumers were able to experience mobile payments. And a great number of mobile payment initiatives failed before they even reached their intended end-users. Due to the complexity of the phenomenon, it was clear that the investigation of consumer adoption in isolation would only provide a limited understanding of mobile payments.

In their article, Dahlberg et al. (2008b, p. 165) also proposed a definition for mobile payments to clarify the concept, which had been subject to different interpretations. Mobile payments were defined as “payments for goods, services, and bills with a mobile device by taking advantage of wireless and other communication technologies”. Furthermore, they stated that “a mobile payment is carried out with a mobile payment instrument such a mobile credit card or a mobile wallet”. Mobile payments were thus distinguished from any specific type of electronic or mobile money, the use of mobile devices to access electronic payment services, and electronic banking (unless there was a separate mobile payment “instrument”, or an account reserved for mobile payments). With this definition in mind, Dahlberg et al. (2008b) also crafted a multi-dimensional framework to describe mobile payment markets (and the literature). Their framework consisted mainly of two parts: i) the mobile payment service market based on Porter’s Five-Forces model, and ii) the contingent factors impacting markets based on general contingency theory.

Today, the accumulation of articles on mobile payments published after 2006 motivates a new critical review of the literature. We performed a systematic literature search and identified 188 articles published during the last eight years (2007–2014), of which 87 were in major conferences or in journals with an impact factor greater than 1.0.

After carefully reading the recent articles, we found that researchers have often been “re-inventing the wheel”. Several studies showed by 2006 that “security” and “trust” are important pre-requisites for the adoption and use of mobile payments. In more recent literature, the same findings were put forward as principal theoretical contributions, which awarded publication in respectable outlets. We admit that confirming earlier findings could be sometimes justified. Yet, this practice led us to wonder why past research findings were ignored.
Dahlberg et al. (2008b) outlined 22 research proposals for future research. Interestingly, their well-cited article has had limited impact on the kind of research that has been conducted after its publication. Overly-researched topics have continued to attract researchers. In 2008, Dahlberg et al. (2008b) already considered that there is little need for additional studies on consumer adoption of mobile payments (i.e., with TAM and UTAUT models), especially since we knew – and still know – so little about merchant adoption. Yet, consumer adoption (based on the mentioned models) has remained one of the most investigated research topics, providing few new insights.

But why is there so much eagerness to conduct consumer adoption studies for mobile payments? We speculate that empirical data from consumers on their attitude and intentions could be easier and more convenient to collect. Another reason may be that journals are still keen to accept such studies, even though the relevance and the contributions are clearly limited. If these reasons can be confirmed, we are curious to know what signals this practice sends to the industry and the academic communities. Overall, we fear that the limited progress made over the years has created a gap between practice and academia.

The purpose of this article is to critically analyze mobile payment research carried out after the publication of the previous literature review (Dahlberg et al. 2008b). We aim at comparing the volume, research methods, research themes, and other statistics about mobile payment research between the two periods (1998–2006 versus 2007–2014). We also examine which recommendations of the previous literature review have impacted mobile payment research. In order to improve future mobile payment research, we also provide an updated list of recommendations. As a whole, our article aims at answering the following two research questions:

- Why have we seen limited progress in several mobile payment research themes during the last eight years?
- What should researchers do in order to improve their research on mobile payments?

To address the first research question, we present in Section 2 the methodology of the literature review and compare the statistics between the two periods studied. In Section 3, we review and comment on the progress of the three dominant themes of mobile payment research: strategy and ecosystems, technology, and adoption. In Section 4, we provide critical comments and recommendations for future research. We conclude in Section 5.

2. Literature reviews that were conducted

Since Dahlberg et al. (2008b), several literature reviews about mobile payments have been written. In 2013, Slade et al. (2013) exclusively reviewed mobile payment adoption papers. More recently, Dennehy and Sammon (2015) reviewed the 20 mobile payment articles most cited in Google Scholar. Moreover, de Albuquerque et al. (2014) performed an exhaustive review by including articles addressing mobile payment issues in developing countries. We believe that mixing articles focusing on developing and developed markets could cause confusion about the progress of mobile payment research. In fact, mobile payment services from developing markets are unlikely to penetrate developed economies with their advanced financial markets and sophisticated telecom, merchant and consumer infrastructures. Consequently, we prefer to avoid the inclusion of both type of markets into our review and solely focus on developed economies.

While the three above-mentioned reviews have their own merits, there is still a need to perform an inclusive literature review and provide recommendations for future research on developed countries.

To ensure consistency with the previous literature review of Dahlberg et al. (2008b), we used the same method to search and classify articles. This approach facilitates reliable statistical comparisons between the two periods. Unless indicated otherwise, we use the same framework and definitions of concepts as those presented in (Dahlberg et al. 2008b). Beyond providing consistency between the two literature reviews, we also demonstrate that the framework and concepts are still valid to classify literature and to structure research on mobile payments.

The framework shown in Fig. 1 consists of two parts. The inner part represents (the actors and forces) of a mobile payment service market with concepts taken from Porter’s Five-Forces model. The outer part describes contingent factors impacting the market with concepts derived from the contingency theory. As a result, the framework describes both the actors and factors of a market, as well as the competitive forces and environment.

Mobile payment service providers have a key role in the ecosystem. However, the actions of other market actors (regulators, financial institutions, device manufacturers, merchants) as well as the influence of market factors (available network, banking, merchant and consumer technology, legislation, payment instrument use habits) could impact the service providers and other market actors. Therefore, this framework enables to study how different strategic options could influence the competitive position of an actor or the performance of the entire market. Contingent factors impact in systematic ways the actors and the market itself but are outside the direct influence and control of any market actor. Contingency theory is essential to capture differences between mobile payment service markets (especially different countries). In recent studies, these issues have mainly been embedded into strategy and ecosystem studies. We will use the term ecosystem in the next sections as a synonym to “m-payment market & providers”.

For more details and explanations about the framework used, we invite the readers to refer to (Dahlberg et al. 2008b)).

2.1. Literature search

We reviewed the literature with a systematic scan of online academic journal and conference databases, similarly to Dahlberg et al. (2008b). Table 1 depicts the databases that were used for the two reviews. Note that we were not able to use the M-Lit database, as it has been discontinued for several years now.

To search the literature, we used the following descriptors: “mobile payment(s)”, “m-payment(s)”, “proximity payment(s)”, “contactless payment(s)”, and “NFC payment(s)”, and searched them from the titles and abstracts of the articles. We excluded articles where mobile payments were just a minor section of the article on, for example, mobile commerce or electronic payments. Moreover, from the articles identified, we went backwards by reviewing other work of the authors as well as citations in the articles (Webster and Watson 2002).

Similarly to Dahlberg et al. (2008b), we included articles from a few established conferences in the fields of IS, electronic commerce and mobile business to include conference articles with sufficient quality. Again, this selection was done to ensure consistency between the statistics of the two reviews. Table 2 lists conferences included in the two reviews. The Mobility Roundtable Conference merged in 2010 with the International Conference on Mobile Business (ICMB). After 2006, we did not come across any proceedings.

2.2. Descriptive statistics

Our systematic literature search identified 188 articles published during the last 8 years (2007–2014), of which 87 were in major...
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