

Predicting the Acceptance of Healthcare Information Technology : the case of Morocco

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What is the problem?

The resistance to Information technology (IT) usage by healthcare professionals is a well-known matter.*

* Physicians, Nurses and Administrative staff

Why did we decide to study ?

Morocco initiated a national healthcare Information System (HIS) project in order:

- To support healthcare professionals
- To improve the quality and efficiency of the promulgated care services

But healthcare professionals resisted using this HIS...

Why did we decide to study ?

- To identify significant factors predicting the acceptance of HIS by these professionals
- To conceive and propose a robust model that considers the Moroccan cultural context

What is the research question ?

*which model could predict the
acceptance of
Healthcare information
Technology/Healthcare
Information System
by healthcare professionals in
Morocco?*

The literature Review...

- Unified Theory of Acceptance and Use of Technology (UTAUT) (Venkatesh et al., 2003).
- Researches based on UTAUT model to study IT acceptation in healthcare context (Hennington and Janz, 2007; Wills et al., 2008; Kijisanayotin et al. 2009; Venkatesh et al. 2011);
- Etc.

How did we study the problem?

The hypotheses related to **Technology context** and to **Implementation one...**

H1: Performance expectancy (PE) influences positively the Moroccan healthcare professionals' intention to use IT

H2: Effort expectancy (EE) influences positively the Moroccan healthcare professionals' intention to use IT.

H3: Social influence (SI) impacts positively the Moroccan healthcare professionals' intention to use IT

H4: Facilitating conditions (FC) influences positively the Moroccan healthcare professionals' intention to use IT

How did we study the problem?

- **Data were collected from ten public healthcare centers and one regional hospital**
- **The concerned population 469 individuals and involved**
 - **99 physicians,**
 - **332 nurses,**
 - **38 administrative staff.**

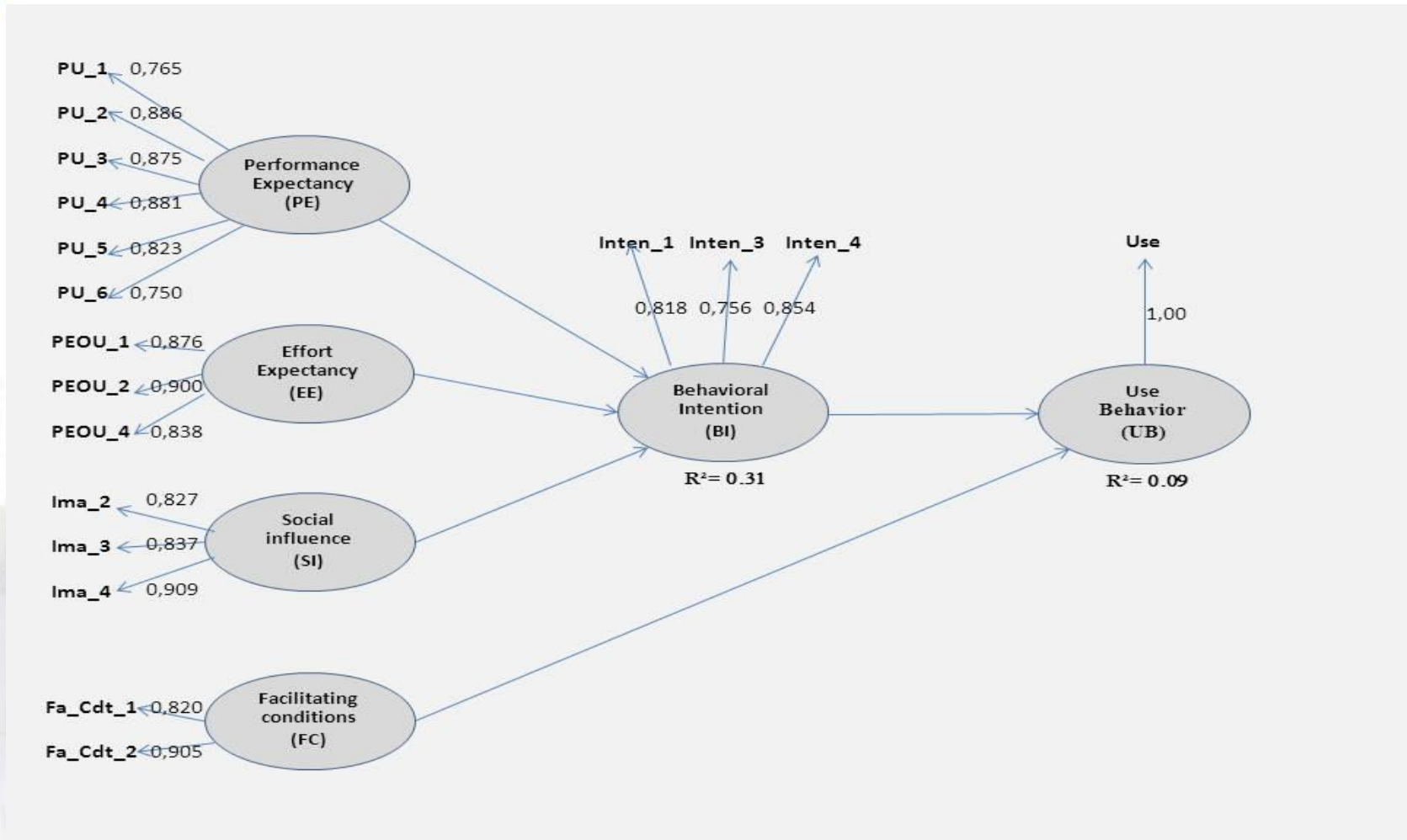
How did we study the problem?

		Ten urban health public centers		Regional hospital Hassan II	
		Frequency	%	Frequency	%
Gender	Man	39	35	96	68
	Women	72	65	45	32
Age	Under 25 years	13	12	6	4
	Between 25 and 40	47	42	62	44
	Over 40 years	51	46	73	52
Healthcare professionals	Physicians	30	27	21	15
	Nurses	81	73	94	67
	Administrative staff	N/A	N/A	26	18
	Total	111	100	141	100

Table 5 : Summary of the respondents sample used for data analysis (N=252).

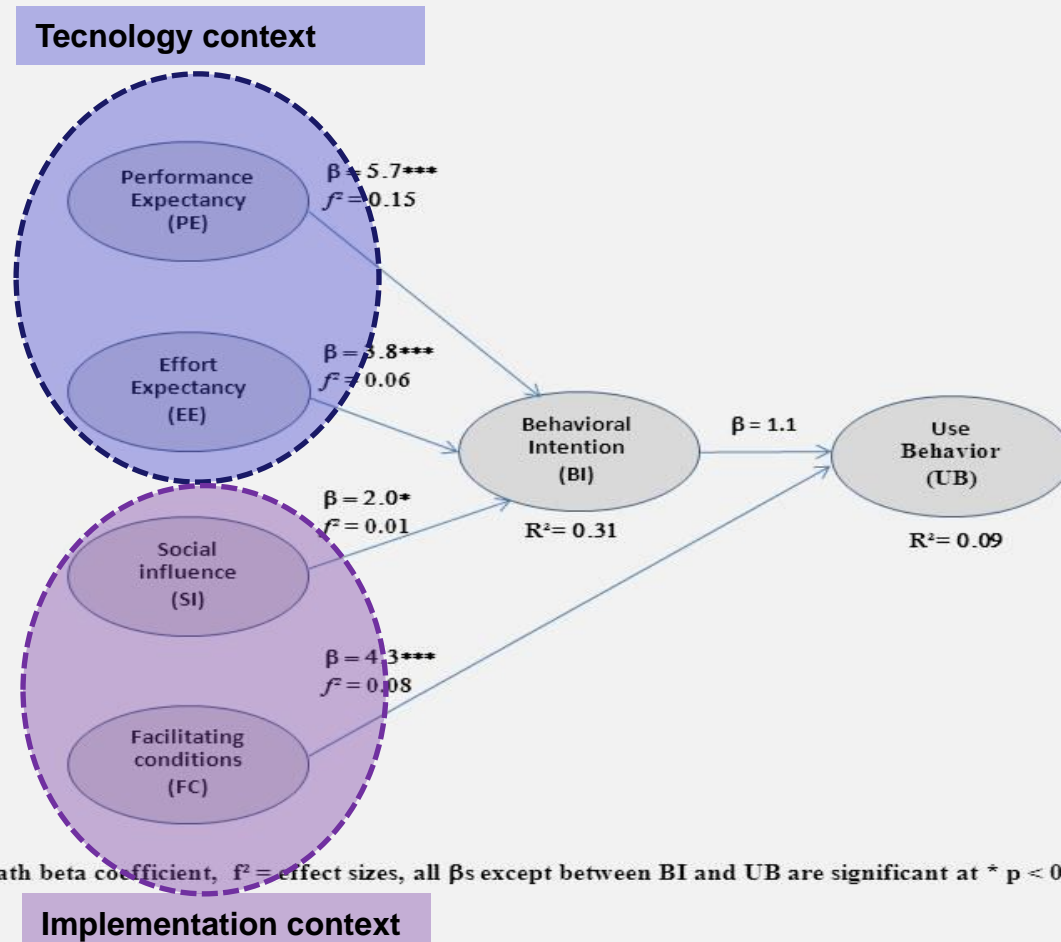
What did we find after data analysis ?

Figure 2 Measurement model.



What did we find after data analysis ?

Figure 3 Structural model



How our findings are useful to peers and/or practitioners ?

- **They provide...**
 - **Additional knowledge to researchers in the area of HIT acceptance**
 - **A tool (model) to decision makers and managers in healthcare hospitals to understand the most influencing factors for HIT acceptance**
 - **Valuable information to CIO and Information System Managers to consider while conceiving and developing HIS**

Conclusion

- **This work contributes significantly to both, healthcare IT and UTAUT applied research to develop knowledge concerning developing countries such as Morocco.**
- **It can help health information technology producers and health information systems designers to produce acceptable systems in these countries.**

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