Abstract

In this paper, the new paradigm of the second screen in interactive digital television (iDTV) is discussed and analyzed through a systematic literature review. An architecture is proposed for the use of mobile devices as a second screen, so interactivity sent via broadcast can be also used in mobile devices, in a contextualized and synchronized fashion. A prototype was implemented in two modules: the first one to primary screen (TV) with the remote control and the other for second screen in order to compare their use.

References

- Belimpasakis, P. ; Walsh, E R. "A combined mixed reality and networked home

- LI, L. ; Yi, R. "MEMS-based digital TV interaction innovation research. " 
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- Lin, C.; Hung, Y.; Chen, H.; Chu, S. &quot;Content-aware Smart Remote Control for Android-based TV. &quot; Consumer Electronics (ICCE), 2012
- Stumm, J. &quot;Sistema Inteligente de Monitoração Alimentar via Web Baseado em Lógica Fuzzy. &quot; In: Dissertação, for Master-Degree in Computer Science, Univerisidade Federal de Santa Catarina - UFSC, Florianópolis, Brazil. Dez. de 2005.

Index Terms

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Keywords
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iDTV

DVB-MHP

Smartphone

Tablet

Android

Remote Control

Home Network