

Mobile web information systems (MobiWIS 2013)

Best papers special issue editorial

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This issue of Computing contains the revised and extended versions of a selection of the best papers from the 10th International Conference on Mobile Web Information Systems, MobiWIS 2013, held in Paphos, Cyprus, in August 2013. MobiWIS proposes itself as the premier venue to present and discuss all aspects related to issues and solutions of mobile technologies when it comes to the engineering of mobile and web-based information systems. The topics covered by the conference were Mobile Web and Social Applications, Middleware/SOA, Mobile Web Searching, Context- and Location-Aware Services, Data Management, Mobile Cloud Services, Mobile Internet of Things, Mobile Web Security, Trust and Privacy, Mobile Networks, Protocols and Applications, Mobile Commerce and Business Services, HCI. The wide range of topics shows that the field is complex and dynamic and that it is called to respond to the new challenges posed by a rapid evolution of use and technology.

The best papers of MobiWIS 2013 were selected by the MobiWIS PC chairs based on their quality. Their authors were invited to submit revised and significantly extended versions. All invited papers were reviewed again by selected members of the Program Committee of the conference and checked for quality.

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The selection of articles included in this issue comprises three contributions that, together, provide an excellent overview of the problems and research questions in the domain of Mobile Web Information Systems. Specifically:

- The paper “Towards NFC Payments using a Lightweight Architecture for the Web of Things” by Tor-Morten Grnli, Pardis Pourghomi and Gheorghita Ghinea proposes a new lightweight architecture for contactless interactions between mobile devices, based on the REST architectural style. The approach relies on the NFC technology and provides for NFC-enabled mobile payments.
- The paper “Software Assurance Practices for Mobile Applications. A Survey of the State of the Art” by Luis Corral, Alberto Sillitti and Giancarlo Succi studies software assurance practices for mobiles applications. The different practices are classified in three levels: software development processes, software product assurance practices, and software implementation practices. The authors analyze the evolution of these practices and their possible application in real production settings.
- The paper “Is Node.js a viable option for building modern web applications? A performance evaluation study” by Ioannis K. Chaniotis, Kyriakos-Ioannis D. Kyriakou and Nikolaos D. Tselikas evaluates the potential of client-server programming integration by using JavaScript as the same end-to-end language. In particular, it compares and evaluates the performance of Node.js against the most popular Web languages.

We would like to thank all the authors for submitting an extended and revised version of their work and all the members of the Program Committee of MobiWIS 2013 who accepted to participate in reviewing the papers considered for this special issue. We would also like to thank the EiC of Computing for hosting this special issue and the editorial assistant for the timely help throughout the preparation of the special issue.

Trento, Nicosia, Namur
August 2014