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Editorial

The mission of the *IJISPM - International Journal of Information Systems and Project Management* is the dissemination of new scientific knowledge on information systems management and project management, encouraging further progress in theory and practice.

It is our great pleasure to bring you the fourth number of the fifth volume of IJISPM. In this issue readers will find important contributions on assessment of business intelligence (BI) in public hospitals, virtual teamwork, Business Process Model and Notation (BPMN) to model Internet of Things (IoT) behavior, and cloud sourcing.

The first article, “An assessment of business intelligence in public hospitals”, is authored by Rikke Gaardboe, Niels Sandalgaard and Tom Nyvang. In this paper, DeLone and McLean's information systems success model is empirically tested on 12 public hospitals in Denmark. The study aims to investigate the factors that contribute to BI success. 1,352 BI end-users answered a questionnaire. A partial least square structural equation model was used to empirically test the model. The authors find that system quality is positively and significantly associated with use and user satisfaction, and that information quality is positively and significantly associated with user satisfaction. User satisfaction is positively and significantly related to individual impact. The other paths in the model are insignificant. The findings also provide empirical support for the role of user satisfaction as a mechanism that mediates the relationship between information quality or system quality and individual impact. User satisfaction is not only a critical construct in the information systems success model but it also serves as a mediator. Generally, the model finds empirical support, as it has a good fit and predictive value.

As Birgit Großer and Ulrike Baumöl state in the second article “Virtual teamwork in the context of technological and cultural transformation”, megatrends affect all individuals and organizations in our society. Mobility and flexibility are examples of megatrends that influence our everyday lives and also intensely alter the ways we work. The deployment of virtual teams meets the new chances emerging with these trends. Employees aspire to work virtually due to benefits, such as flexibility regarding the locations and hours for working. Organizations deploy virtual teams to remain competitive regarding new technological opportunities, employee retention and cost efficiency in an increasingly digital environment. Organizations can guide their change towards virtuality by building on the knowledge of practice as well as scientific insights regarding the deployment of virtual teams. In order to provide a holistic view on the structures and processes affected by such a change and thus provide guidance, a framework for analyzing and planning organizational change is adapted to virtual teamwork and presented in this paper. The framework shows that the deployment of virtual teams affects the whole organization. This comprehensive view on the implementation of virtual teamwork allows an integration of virtual teams and focusses on their performance. The adapted framework furthermore provides links for further in-depth research in this field.

The third article “Using BPMN to model Internet of Things behavior within business process” is authored by Dulce Domingos and Francisco Martins. Whereas, traditionally, business processes use the IoT as a distributed source of information, the increase of computational capabilities of IoT devices provides them with the means to also execute parts of the business logic, reducing the amount of exchanged data and central processing. Current approaches based on BPMN already support modelers to define both business processes and IoT devices behavior at the same level of abstraction. However, they are not restricted to standard BPMN elements and they generate IoT device specific low-level code. The work presented in this paper exclusively uses standard BPMN to define central as well as IoT behavior of business processes. In addition, the BPMN that defines the IoT behavior is translated to a neutral-platform programming code. The deployment and execution environments use Web services to support the communication between the process execution engine and IoT devices.



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As Björn Johansson and Mirella Muhic state in the fourth article “Relativism in the Cloud: Cloud Sourcing in virtue of IS Development Outsourcing - A literature review”, Cloud Computing and Cloud Sourcing is on the agenda in many organizations. Many Chief Information Officers (CIOs) that urge for alternatives to traditional outsourcing are interested in how they can take advantage from Cloud Computing, by sourcing IT from the cloud. This paper provides an overview of the research direction of Cloud Sourcing in the Information Systems (IS) field. A literature review based on selected papers from top IS journals and conferences was conducted. Findings from the review indicate that the attention of Cloud Sourcing in IS literature has mainly been directed towards security and risk as well as adoption issues, and that Cloud Sourcing is claimed to be the next generation of outsourcing. Unfortunately, this is where this strong claim ends without any further evidence, which indicate that there is a need for more research on Cloud Sourcing, especially in the direction of investigating relationships and implications when organizations start using Cloud Sourcing.

We would like to take this opportunity to express our gratitude to the distinguished members of the Editorial Board, for their commitment and for sharing their knowledge and experience in supporting the IJISPM.

Finally, we would like to express our gratitude to all the authors who submitted their work, for their insightful visions and valuable contributions.

We hope that you, the readers, find the International Journal of Information Systems and Project Management an interesting and valuable source of information for your continued work.

The Editor-in-Chief,

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João Varajão is currently professor of information systems and project management at the *University of Minho*. He is also a researcher of the *Centro Algoritmi* at the *University of Minho*. Born and raised in Portugal, he attended the *University of Minho*, earning his Undergraduate (1995), Masters (1997) and Doctorate (2003) degrees in Technologies and Information Systems. In 2012, he received his Habilitation degree from the *University of Trás-os-Montes e Alto Douro*. His current main research interests are in Information Systems Management and Information Systems Project Management. Before joining academia, he worked as an IT/IS consultant, project manager, information systems analyst and software developer, for private companies and public institutions. He has supervised more than 80 Masters and Doctoral dissertations in the Information Systems field. He has published over 300 works, including refereed publications, authored books, edited books, as well as book chapters and communications at international conferences. He serves as editor-in-chief, associate editor and member of the editorial board for international journals and has served in numerous committees of international conferences and workshops. He is co-founder of CENTERIS – Conference on ENTERprise Information Systems and of ProjMAN – International Conference on Project MANAGEMENT.

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