

JITTA



JOURNAL OF INFORMATION TECHNOLOGY THEORY AND APPLICATION

A Publication of the Association for Information Systems

Editorial: Critical Applications of Information Systems

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NEW OWNERSHIP AND EDITORIAL CHANGES

We are delighted to announce that starting with this first issue of volume 10, JITTA is an official publication of the Association for Information Systems (AIS). Since its inaugural issue in 1999, JITTA has been a unique journal for the Information Systems community in that it encourages submissions using all methodologies and research approaches that exist in our discipline; among others, we encourage the submission of positivist research, interpretive or exploratory studies, design science papers, research agenda articles, speculative research, research essays, normative papers, and case studies. During the last decade, JITTA has become the outlet of choice for many important contributions to our field. Being part of the select group of AIS journals will ensure that JITTA is going to continue its success story. The journal is listed in Cabell's Directory and accessible through ABI/Inform. As an AIS Journal, all new issues will be published on the AIS Electronic Library and the back issues will soon be available on the AIS Electronic Library. Further, the journal has switched to a new review system that is closely integrated with the AIS Electronic library as well. Access to the journal's issues and the submission and review system is on one integrated web site hosted by the AIS at <http://jitta.aisnet.org>.

With the beginning of Volume 10, there also have been changes to the editorial board of the journal. The Editors-in-Chief Ken Peffers and Rajiv Kishore have completed their terms and have passed on the leadership of the journal to Marcus Rothenberger (University of Nevada Las Vegas), Mark Srite (University of Wisconsin – Milwaukee), and Tuure Tuunanen (The University of Auckland). Ken Peffers is the founding Editor-in-Chief of JITTA and has led the journal since its inception; Rajiv Kishore has joined JITTA as a Co-Editor-in-Chief in 2005. As the new Editors-in-Chief, we would like to thank Ken and Rajiv for their dedicated work and for making JITTA the well regarded journal that it is today. We are happy that Ken and Rajiv will continue serving the journal with their advice and experience as Emeritus Editors-in-Chief.

With the transition of JITTA to the Association for Information Systems (AIS) and the AIS Electronic Library, the journal has changed the publication layout to be consistent with the other AIS journals. The new layout is in a single column format, which is particularly appropriate for an online journal, as it improves the on-screen readability of the articles. Other JITTA-specific features, such as the contribution section, as well as the citation and reference styles will be continued in the new layout. This is the first issue that appears in the new format.

THE CURRENT ISSUE

This issue includes three papers that discuss and investigate critical applications of information systems. The research of the first two papers in this issue was motivated by recent incidents that illustrated the need for an effective emergency response, such as Hurricane Katrina, the Virginia Tech shooting, and the SARS outbreak in Asia. Both papers contribute to different aspects of the design of emergency response systems.

Yang, Prasanna, and King (2009) discuss design requirements for emergency first responders. They investigate how an array of specific technologies may aid in the retrieval of and access to on-site information in case of emergencies. The paper focuses on requirements specifications for fire emergency responses. A prototype system for emergency first responders is used to discuss and illustrate the requirements presented in the paper. The study provides detailed design insights into an emergency response system that utilizes RFID and wireless sensor networks for information retrieval and wireless communication technologies for on-site information sharing.

Thomas, Andoh-Baidoo, Redmond, and Yoon (2009) investigate how to facilitate Emergency Response Notifications with VoiceXML. Their paper presents a Geographic Information System (GIS)-based emergency response management architecture that uses a web-based voice translation technology. An implementation of the described architecture is being discussed and the benefits of the proposed architecture are evaluated in the context of a toxic chemical agent leak reported to the Environmental Protection Agency (EPA).

The third paper by Djasasbi, Fruhling, and Loiacono (2009) investigates a different kind of critical application; the study examines the acceptance of telemedicine systems. Based on the Technology Acceptance Model (Davis 1989), the paper introduces affect as a measure of a user's affective state. The authors conduct a laboratory experiment showing that user attitude is important for the acceptance behavior and supporting affect as an antecedent of attitude in the healthcare domain.

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Marcus A. Rothenberger is an Associate Professor in the Department of Management Information Systems at the University of Nevada Las Vegas (UNLV). He holds a Ph.D. in Information Systems from Arizona State University. Dr. Rothenberger uses qualitative, quantitative, and design science paradigms to research software process improvement issues, software reusability, performance measurement, service-oriented architectures, and the adoption of enterprise resource planning systems. His work has appeared in major academic journals, such as the *Journal of Management Information Systems*, the *Decision Sciences Journal*, *IEEE Transactions on Software Engineering*, *IEEE Transactions on Engineering Management*, *Communications of the ACM*, *Information & Management*, and the *Journal of Information Technology Theory and Application (JITTA)*. Dr. Rothenberger is a Co-Editor-in-Chief of *JITTA* and an Associate Editor of the *AIS Transactions on Enterprise Systems*. He is a member of the Association for Information Systems.



Mark Srite is an Associate Professor in the Management Information Systems area of the Sheldon B. Lubar School of Business at the University of Wisconsin – Milwaukee. He received his Ph.D. from Florida State University in 2000. Dr. Srite's research focuses on the adoption and diffusion information technologies across cultures, enterprise system issues, and technology's influence on decision making. He has published in *Management Information Systems Quarterly*, the *Journal of Management Information Systems*, *Decision Support Systems*, *Information & Management*, the *Journal of Information Technology Theory and Application (JITTA)* and elsewhere. He is Co-Editor-in-Chief *JITTA* and is a member of the Association for Information Systems.



Tuure Tuunanen is a Senior Lecturer in the Department of Information Systems and Operations Management at The University of Auckland. He holds a D.Sc. (Econ) from Helsinki School of Economics. His current research interests lie in the areas of IS development methods and processes, requirements engineering, risk management, and convergence of IS and marketing disciplines, specifically in design of interactive consumer services and products. His research has been published in *Information & Management*, *Journal of the Association for Information Systems*, *Journal of Database Management*, *Journal of Information Technology Theory and Application (JITTA)*, *Journal of Management Information Systems*, and *Technology Analysis and Strategic Management*. Dr. Tuunanen is Co-Editor-in-Chief of *JITTA* and he is a member of Association of Computing Machinery, Association of Information Systems, and Institute of Electrical and Electronics Engineers.

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