

## Preface

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**Biographical notes:** Rongbo Zhu is currently an Associate Professor in College of Computer Science of South-Central University for Nationalities. He received his PhD in Communication and Information Systems from Shanghai Jiao Tong University, China, in 2006. He has published over 50 papers in international journals and conferences in the areas of mobile computing, and wireless communications. He is Editor-in-Chief of *International Journal of Satellite Communications Policy and Management*. He has been actively involved in around ten international conferences, serving as General Co-chair of ICICA'10. He is a member of the ACM and IEEE.

Hui Wang received his PhD in Communication and Information Systems from Shanghai Jiao Tong University, China, in 2007. From 2008 to 2009, he was a post-doctoral researcher in University of Evry, Paris, France. Since September 2009, he has been a post-doctoral researcher in the division of ITCE at Pohang University of Science and Technology, Pohang, Korea. His research interests include wireless communication theory, cooperative communications, cross-layer design and optimisation for energy-constrained wireless networks. He has several patents and over 40 papers in international journals and conferences. He currently serves as an associate editor or guest editor for several international journals.

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This is the second part of special issue on 'Advances in RFID Technology', which includes five papers. The first part was published as *IJRFITA* 2011, Vol. 3, No. 4. We briefly summarise those papers as follows.

The sixth paper, 'Vulnerability analysis of lightweight secure search protocols for low-cost RFID systems', by Chao Lv, Hui Li, Jianfeng Ma and Ben Niu, shows that the basic protocol cannot resist the tracking attack and the synchronisation-based protocol is vulnerable to the tracking attack and a kind of desynchronisation attack.

The seventh paper, 'A rules based RFID-enabled supply chain process monitoring system', by Chiao-Tzu Huang, Shu-Jen Wang, Jen-Chieh Liao and Wei-Ling Wang,

proposes a quick response monitoring system with assistant of RFID information systems and a rule based supply chain process performance monitoring mechanism to monitor the real-time physical flows between nodes from time to time.

The eighth paper, ‘Approaches to fast sequential inventory and path following in RFID-enriched environments’, by Arne Bosien, Volker Turau and Franco Zambonelli, proposes a new method for storing the identifying masks of subsequent tag IDs on the tags, which can easily be used with query-tree anti-collision methods.

The ninth paper, ‘Thin film HF RFID tag deposited on paper by thermal evaporation’, by Camille Ramade, Sébastien Silvestre, Frédérique Pascal-Delannoy and Brice Sorli, investigates the fabrication and characterisation of an HF RFID transponder (tag) deposited on paper substrate using thermal evaporation, which can reduce the required amount of metal and the number of manufacturing stages in the realisation of RFID labels.

The last paper, ‘Cell phone-based mobile RFID: models, mechanisms and its security’, by Namje Park, presents a mobile RFID system anatomy, and investigates the components that make up a typical mobile RFID system framework and the underlying subsystems that make them work.

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