
FOREWORD

Special Section on Sensing, Wireless Networking, Data Collection, Analysis and Processing Technologies for Ambient Intelligence with Internet of Things

In the Internet of Things (IoT) era, sensor networks gather ambient information from peoples, products, and sensing devices for real space. The sensed data is processed, analyzed, and applied for enhancement or assistance for human activities, which is called ambient intelligence. Sophisticated social environments such as efficient electric power usage in smart grids, effective transportation systems, smart agriculture and big data analytics based on sensed data will be established through the ambient intelligence. Ambient intelligence can offer the convenience that before does not have and a radical cost cut by fusing the technologies of various fields. Fundamental researches have been promoted in the field of technologies supporting the ambient intelligence. Toward future generation, it is important to develop such sensing, wireless networking, data collection, analysis and progressing technologies for ambient intelligence. From the above points of view, this special section was planned to publish papers on the related fields.

We received 17 paper submissions for this special section. After a very careful and fair peer-review process, a total of 10 papers were accepted. In addition, we invited two papers. One introduces an information dissemination scheme for disaster evacuation supports. The other proposes a novel radio resource optimization scheme in closed access femtocell networks, which was based on the invited talk at Indonesia-Japan Joint Workshop on Ambient Intelligence and Sensor Networks in 2017. The editorial committee members believe that these papers attract much attentions in the research and development related to ambient intelligence with IoT.

Finally, as the guest editor-in-chief, I would like to express my sincere appreciation to all the authors for their contributions and to all the editors and reviewers for their voluntary activities.

Special Section Editorial Committee Members

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Hiraku Okada, Guest Editor-in-Chief

Hiraku Okada (*Senior Member*) received the B.S., M.S. and Ph.D. degrees in Information Electronics Engineering from Nagoya University, Japan in 1995, 1997 and 1999, respectively. From 1997 to 2000, he was a Research Fellow of the Japan Society for the Promotion of Science. He was an Assistant Professor at Nagoya University from 2000 to 2006, an Associate Professor at Niigata University from 2006 to 2009, and an Associate Professor at Saitama University from 2009 to 2011. Since 2011, he has been an Associate Professor at Nagoya University. His current research interests include wireless communication systems, wireless networks, inter-vehicle communications, and visible light communication systems. He received the Inose Science Award in 1996, the IEICE Young Engineer Award in 1998, and the IEICE Communications Society ComEX Best Letter Award in 2014. Dr. Okada is a member of IEEE and ACM.

