
FOREWORD

Special Section on Emerging Technologies for Practical Ubiquitous and Sensor Networks

In these several years, there have been remarkable progress on research and development of ubiquitous and sensor networks. Smaller sensing devices show more sophisticated sensing capabilities and also several promising wireless access technologies have emerged for supporting sensor networks. At the same time, those networks potentially have issues; for example, how to successfully identify targeting objects or their locations with small number of sensors while using minimum accessing resources (e.g., route, spectrum or batteries). In many practical fields of ubiquitous and sensor networks, technical challenges are required to make them work. Therefore, the Technical Committee on Ubiquitous Sensor Network (USN) of Communication Society in IEICE organized a special section to discuss recent results on those practical USN technologies.

We received 61 paper submissions and 10 letter submissions from 6 countries including Korea, China, Taiwan as well as Japan. After the fair reviews and assessment of submitted papers by the editorial committee, 17 papers and one letter have been selected for publication.

The editor-in-chief expresses his sincere thanks to all authors who submitted papers on this special section. Guest editors took many administrative jobs to support the committee. He also appreciates guest associate editors and all reviewers for their huge efforts to complete this publication.

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Masayoshi Ohashi, Guest Editor-in-Chief

Masayoshi Ohashi (*Member*) received B.S., M.S. and Dr. of E. degrees from Kyoto University in 1981, 1983 and 1994, respectively. He joined KDD in 1983 and started research activity on mobile satellite communications in KDD R&D Labs. from 1985. He was involved mainly in error correcting coding technologies. In late 1990s, he was engaged in the standardization and development of IMT-2000 (3G) systems. His contributions were observed in initial IMT-2000 standards in ITU-T SG11, 3GPP2 TSG-S and N. From 2001–2004, he was a vice chair of TSG-S WG4 (Security) in 3GPP2. His current interests are mobile and ubiquitous networking technology. From 2003–2008, he coordinated one of the national ubiquitous networking projects “Ubila”. From April 2008, he is a Director of Media Information Science Laboratories, Advanced Telecommunications Research Institute International (ATR). He is a member of IEEE, IPSJ and SITA.

