FOREWORD

Special Section on Fundamental Issues on Deployment of Ubiquitous Sensor Networks

We have seen many research reports on the deployment of ubiquitous sensor networks. In the real deployment, many issues that are difficult to model and simulate in the laboratory settings can arise. These issues stem from the results of complicated factors ranging from the wireless properties and the natural environment conditions, thus necessitating novel and fundamental approaches towards the ubiquitous sensor networks. Based on this background, this special section was planned to focus on the research activity along the above direction ranging from the fundamental theories and the component technologies to the deployment of ubiquitous sensor networks. All the papers in this special section are expected to further promote the research in this field.

In this special section, two distinguished invited papers are included. Prof. Tian He has proposed some fundamental algorithms for localization. He presents his recent work in this area. Prof. Masatoshi Ishikawa has been exploring the intersection of sensing and networks. In his invited papers, many important issues are addressed. In addition to these invited papers, we received 24 papers and 13 letters submissions. The editorial committee has selected 9 papers and 6 letters for publication after fair reviews and assessment of the submitted papers.

Finally, as the guest editor-in-chief, I gratefully acknowledge the submissions by the authors, the tremendous amount of work done by the guest editors, Dr. Hiraku Okada and Dr. Jin Nakazawa, and the contributions by the editorial committee members.

Members of the Editorial Committee:
Guest Editors: Hiraku Okada (Saitama Univ.), Jin Nakazawa (Keio Univ.)
Guest Associate Editors: Miyuki Imada (NTT), Hideyuki Uehara (Toyohashi Univ. of Tech.), Masateru Minami (The Univ. of Tokyo), Hidekata Hontani (Nagoya Institute of Tech.), Hideyuki Kawashima (Univ. of Tsukuba), Masugi Inoue (NICT), Kaori Fujinami (Tokyo Univ. of Agriculture and Tech.), Masayuki Hirafuji (NARO), Narito Kurata (Kajima Corp.), Takumi Miyoshi (Shibaura Institute of Tech.), Katsuhiro Naito (Mie Univ.), Yasushi Fuwa (Shinshu Univ.), Bing Zhang (NICT), Hiroyuki Shinoda (The Univ. of Tokyo), Nao Kawanishi (ATR), Takuya Asaka (Kyoto Univ.), Kazuhiko Shinozawa (ATR)

Yoshito Tobe, Guest Editor-in-Chief

Yoshito Tobe (Member) received his B.E. and M.E. degrees in electrical engineering from the University of Tokyo in 1984 and 1986, respectively. He also received his M.S. degree in computer engineering from Carnegie Mellon University in 1992 and his Ph.D. from Keio University in 2000. After he joined Toshiba Corp. in 1986, he was engaged in the development of real-time process control local area networks. Since 2003, he has been a professor at Tokyo Denki University. His research includes ubiquitous computing and wireless sensor networks. He is a member of IEEE, ACM, IPSJ, and SICE.