

---

## FOREWORD

---

### Special Section on Management for the Era of Internet of Things and Big Data

Smart devices like networked appliance and sensor, together with smartphones and tablets, are paving the way for the new era of Internet of Things (IoT) and big data. New value-added applications and services would emerge by means of huge amount of data sourced from everything connected to the Internet, stored in networks and also analyzed by new and advanced analytics. This unprecedented era, demanding to cope with the huge amount of data as well as emerging devices and still ever-increasing networks and systems, will pose yet another challenge for management and operations arena. From the above-mentioned background, this special section was planned to muster and expedite research and development of management for the era of Internet of things and big data.

Call for Papers attracted 16 full papers, which were submitted from seven countries (Brazil, China, Egypt, Japan, Korea, Taiwan and U.S.). Through the careful and rigorous review process, the editorial committee has selected three papers. In addition, this special section includes one invited paper discussing management of the synchronization in the Lambda architecture for optimized big data analysis. As the Guest Editor-in-Chief, I would like to express my sincere appreciation to all the authors for their excellent contributions, and to all the reviewers and the members of the editorial committee for their great efforts to this special section.

Special Section Editorial Committee Members

Guest Editor: Kazuhiko Kinoshita (The University of Tokushima)

Guest Associate Editors: Takuya Asaka (Tokyo Metropolitan University), Shingo Ata (Osaka City University), Nao Kawanishi (ATR), Mitsuho Tahara (NTT), Toshio Tonouchi (NEC), Katsuhiko Naito (Aichi Institute of Technology), Yuji Nomura (Fujitsu Laboratories), Eiichi Horiuchi (Mitsubishi Electric), Masao Murata (Fujitsu), Kyoko Yamori (Asahi University).

---

Kiyohito Yoshihara, Guest Editor-in-Chief

---

**Kiyohito Yoshihara** (*Senior Member*) is the senior manager of the Green and M2M Application Laboratory, KDDI R&D Laboratories Inc. Since joining the laboratories in 1995, he has been engaged in research on network algorithm, distributed processing, network operations and management, home networking and M2M/IoT applications. He received the B.E., M.E. and Ph.D. degrees from Tokyo Institute of Technology in 1993, 1995 and 2004, respectively. He has been serving as an organization committee member of several prestigious international conferences on network operations and management.

