Editor’s Message to Special issue of Pervasive Systems and Intelligent Transport Systems for Smart Society

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With recent developments and pervading of connected devices, valuable knowledge can be extracted from data gathered from real world. By utilizing the knowledge, we can make our society more efficient and sustainable. Towards the realization, a lot of efforts are ongoing in research areas of IoT and M2M, wireless communication technology such as LTE and 5G and sensor network technologies and ad-hoc network technologies.

These research topics related to pervasive systems and advanced transportation systems have been studied in Mobile Computing and Pervasive System (MBL) special interest group and Intelligent Transportation Systems and Smart Community (ITS) special interest group of Information Processing Society, Japan. More than 100 research papers per year have been published within these SIGs. Also, in DICOMO2016 symposium that has been held since 1997 and 20th anniversary this year, 64 papers out of 262 ones are related to these areas; this shows the research activities are very diligent and agile. In fact, most of the published papers have been matured by discussion through the SIG meetings and symposiums, so that we are sure that to collect such papers and publish within a special issue would be vital to promote these research areas and meaningful for Information Processing Society, Japan. This special issue has been jointly planned by SIG-MBL and SIG-ITS to implement above purport with the following schedule:

CPF: November 25, 2015,
CFP deadline: April 7, 2016,
Editorial Board Meeting: April 15, June 17, September 23.

In this special issue, 22 papers are submitted and we have accepted 12 papers, so the final acceptance ratio is 55%. The research topics in the accepted papers include activity recognition, smartphone applications, the estimation of the location, mobile ad-hoc network including vehicle-to-vehicle communications.

We have invited two papers. The first paper is a survey on Internet-of-Things including standardization and research activities, prepared by Dr. Katsuhiro Naito of Aichi Institute of Technology. The second paper is discussing autonomous intelligent driving technologies, jointly authored by Dr. Hideo Inoue of Kanagawa Institute of Technology, Dr. Pongsathorn Raksincharoensak of Tokyo University of Agriculture and Technology, Mr. Shintaro Inoue of Toyota Motor Corporation. We believe our readers are interested in the both papers.

Finally, we would like to thank all those who made this special issue possible, including the authors, reviewers, editors, the parties concerned in IPSJ. Without their effort, it is not possible to publish this special issue on time.

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