
FOREWORD

Special Section on Implementation, Experiments, and Practice for Ad Hoc and Mesh Networks

With the increasing needs of impromptu and wireless network infrastructure and strenuous efforts of researchers and developers, ad hoc and mesh networks are now becoming a reality. Along with theoretical research activities, several attempts have been made on building, operating, and testing an ad hoc network in these years. So that we can bring ad hoc and mesh networks from theory to practice, we need to derive and collect much know-how, observation, and findings from practical experiments on ad hoc and mesh networks operating in an actual environment and develop devices, algorithms, mechanisms, protocols, applications, and systems based on lessons learned from these activities. This special section will present the latest R&D activities in implementation, experiments, and practice for ad hoc and mesh networks to foster development of practical ad hoc networks, which would bring great benefits to our social life.

This special section is intended to discuss recent advantage in ad hoc and mesh network technologies and includes the following topics of interest.

- Constructing, operating, and experimenting a test-bed
- Ad hoc and mesh network protocols considering actual environments
- Practical experiments on prototypes
- Issues and solutions specific for practical ad hoc and mesh networks
- Design of practical application systems

In reply to call for papers, 21 papers and 7 letters were received. After fair and square review, 9 papers and 2 letters are accepted for the publication in this section.

Here I would like to express my sincere thanks to all authors for their excellent papers, and editorial committee members for their great efforts that significantly contributed to outstanding quality of this special section.

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Susumu Matsui, Guest Editor-in-Chief

Susumu Matsui (*Member*) received M.E. degree from Osaka University, Japan in 1980, and D.E. degree from Shizuoka University, Japan in 2009. In April 1980, he joined Systems Development Laboratory, Hitachi, Ltd. and worked for R&D of LAN (Local Area Network) systems, mobile communication systems, multimedia communication systems, and ad hoc network systems. He is currently the chief researcher in Systems Development Laboratory, Hitachi. He is a member of IEEE.

