
FOREWORD

Special Section on Information Centric Networking: Paradigms, Technologies, and Applications

Information (or Content) Centric Networking (ICN/CCN), which uses information or content itself as an identifier of communication instead of IP addresses, is being actively and globally studied. It is urgently necessary to establish the basic technology of ICN systematically to overcome difficult problems existing on academic and scientific base of the current information network, such as accommodation for a huge number of different devices, diversification, complication, mobility, virtualization, energy saving, safety, and trustworthy.

This special section aims to publish articles to facilitate further ICN/CCN research and development. The section contains two invited papers and 8 technical papers selected from 20 submissions through the careful review process. The first invited paper provides the research results given by a joint Japan-Europe research project named GreenICN project, which focused on two application scenarios, a disaster scenario and a video delivery scenario. The second one provides an approach to introducing ICN in the real world by positioning an ICN-based solution as a routing-as-a-service offering for existing IP-based solutions. All the accepted papers include a variety of topics in the field of ICN/CCN and provide useful information to readers who are interested in this field and stimulate the future ICN/CCN research and deployment activities.

We would like to sincerely appreciate all people who significantly contributed to this special section, including the authors, reviewers, and publication staff.

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Hitoshi Asaeda (*Senior Member*) is a research manager at Network System Research Institute, NICT. Prior to joining NICT, he was with IBM Japan, Ltd., and from 2001 to 2004, he was a research engineer specialist at INRIA, France. He was a project associate professor at Keio University, where he worked from 2005 to 2012. He has been engaged in research in the area of routing, network coding, and large-scale testbed, and actively working on the IETF standards body. He holds a Ph.D. from Keio University. He is a chair of ICN WG at AsiaFI and a vice-chair of IEICE technical committee on ICN. He is a senior member of IEEE and a member of ACM.

