The Second International Conference on Networking and Computing (ICNC’12) has been held in Osaka, Japan, from November 30-December 2. It is my pleasure to publish the special issue on invited talks of ICNC’12.

The ICNC’12 organizing committee asked speakers of keynote and tutorials of ICNC’12 to submit papers based on their talks. Submitted papers have been reviewed by experts in the same filed, and authors have revised papers according to their comments. Finally, we have accepted following four papers:

- Probabilistic Self-Stabilization and Biased Random Walks on Dynamic Graphs by Masafumi Yamasita
- Visualized Development and Testing for Embedded Cluster Computing by Ian Vince McLaughlin, Timo Rolf Bretschneider, and Chen Zheming
- Invitation to a Standard Programming Interface for Massively Parallel Computing Environment: Open CL by Shinichi Yamagiwa
- All about RICC: RIKEN Integrated Cluster of Clusters by Nakata Maho

On behalf of the ICNC’12 organizing committee, I would like to thank authors for giving excellent talks at ICNC’12 conference site and for submitting their outstanding manuscripts to this special issue. Likewise, I would like to express our appreciation for the large efforts of reviewers who reviewed papers submitted to the special issue. This special issue would not be possible without their support.