Introduction

**Donghwi Lee · Chia-Chu Chiang · Mal Rey Lee ·
Herbert Kuchen · Kenji Leibnitz**

Published online: 9 April 2011
© Springer Science+Business Media, LLC 2011

Authors of best papers from “The 1st International Conference on Information Science and Applications (ICISA 2010)” were invited to submit extended versions of their papers for Middleware, Operating, Systems and Applications.

The advances in telecommunication systems have enabled the realization of ubiquitous and intelligent environments for people to communicate with each other, interact with any computing devices, and receive a wide range of

wireless services through various types of networks and systems. One of the keys on brilliant development of telecommunication systems is the advancement of software technologies in various communication sectors.

This special issue is intended to focus on latest research of communication middleware, operating systems, applications and applied real world engineering for telecommunication systems.

D. Lee (✉)
Kyounggi University, Suwon, Republic of Korea
e-mail: dhclub@naver.com

C.-C. Chiang
University of Arkansas, Fayetteville, AR, USA

M.R. Lee
Chonbuk National University, Jeonju, Republic of Korea

H. Kuchen
University of Muenster, Münster, Germany

K. Leibnitz
Osaka University, Osaka, Japan