

Volume Editors

Chang Su Chang, Chonnam National University, Korea

Dominik Slezak, Warsaw University & Infobright, Poland

George Wencai Du, Hainan University, China

Gi-Sung Lee, Howon University, Korea

Haengkon Kim, Catholic University of Daegu, Korea

Hamid R. Arabnia, University of Georgia, Athens, USA

Hyoungh-Keun Park, Namseoul University, Korea

Jemal Abawajy, Deakin University, Australia

Oswaldo Gervasi, University of Perugia, Italy

Sabah Mohammed, Lakehead University, Canada

Seong-Bo Ko, Jeju National University, Korea

Tai-Hoon Kim, Sungshin W. University, Korea

Wai-chi Fang, National Chiao Tung University, Taiwan

Copyright © Science and Engineering Research Support soCietY (SERSC)

All rights reserved

Copyright and Reprint Permissions: Abstracting is permitted with the credit to the source. Other copying, reprint request should be addressed to: SERSC Copyrights Manager, Head Office: 20 Virginia Court, Sandy Bay, Tasmania, Australia, Phone no.: +61 3 9016 9027, Fax no.: +82-70-7614-3027.

ISSN 2287-1233