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SPECIAL ISSUE ON ADVANCES ON COMPUTATIONAL INTELLIGENCE AND INFORMATION SECURITY

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With the rapid growth of communication through Internet, information processing and management are becoming more and more challenging. One critical issue is how to find effective ways to protect information systems, networks and sensitive data within our communication systems. Traditional techniques such as well-selected passwords and change of file permission are far from being enough to meet today's security requirement. Additional effort is deemed to be necessary and new techniques are highly demanded to ensure a safe and secure information environment.

Computational intelligence has emerged as powerful tools for information processing, decision making, and knowledge management. The techniques of computational intelligence have been successfully developed in areas such as neurocomputing, fuzzy systems, evolutionary algorithms, data minding, Web service and multi-agent systems. It is predictable that in the near future computational intelligence will play a more and more important role in tackling various issues of information security.

This special issue focuses on the topics in computational intelligence and information security. The intention for this special issue is (i) to present the state-of-art methodology in the field of computational intelligence; (ii) to promote the research in dealing with information security problems by using various computational intelligence techniques. We have received 59 contributions. After peer reviews, 8 papers have been accepted for publication in this special issue. These papers address a broad spectrum of issues on computational intelligence and information security, such as privacy preservation in data minding, remote user authentication, fairness and accuracy in sensing progress, Web service, evolutionary algorithms, fuzzy systems, and neural network.

I would like to express my sincere thanks to Professor Yan Shi, Executive Editor of IJICIC for his great help to make this special issue become possible. I am also very thankful for the hard-working guest editors of this special issue: Prof. Hailin Liu (Guangdong University of Technology, China), Prof. Yiu-ming Cheng (Hong Kong Baptist University, Hong Kong), and Prof. Yuping Wang (Xidian University, China). All of them have devoted significant time and effort during the review process in order to maintain a high quality of publications. Finally, I am indebted to Professor Peng Shi, Editor-in-Chief of IJICIC, for his considerable support for this special issue.

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