

Special Issue: Selected Best Papers of  
International Symposium on Electronic Commerce and Security 2008 (ISECS 2008)  
Track on Software

## Editorial

E-commerce creates many opportunities for many people from all walks of life, but also faces many challenges. E-commerce uses information technology to transmit commercial information. Computer networks and commerce security both supplement and complement each other. Without computer network security as the foundation, commercial business is at risk. Security is one of the huge challenges confronting E-commerce. Commercial businesses cannot thrive in an environment where there are great risks to communication, etc. Security is an important guarantee of E-commerce, and the ultimate success of all business.

The International 2008 International Symposium on Electronic Commerce Security (ISECS 2008) is sponsored by Guangdong University of Business Studies, China, Peoples' Friendship University of Russia, Russia, Central South University, China, and Southwestern University of Finance & Economics, China, University of Amsterdam, Netherlands. It is also co-sponsored IEEE Computer Society, IEEE System, Man, & Cybernetics Society. Much work went into preparing a program of high quality. We received 643 submissions. Every paper was reviewed by three program committee members and 227 were selected as regular papers, representing a 35% acceptance rate for regular papers. To encourage the author presentation at ISECS 2008, we have chosen 10 outstanding papers to be published in this special issue. The candidates of the Special Issue are all the authors, whose papers have been accepted and presented at the ISECS 2008, with the contents not been published elsewhere before.

The purpose of ISECS 2008 is to bring together researchers and practitioners from academia, industry, and government to exchange their research ideas and results and to discuss the state of the art in the areas of the symposium. In addition, the participants of the Symposium will hear from renowned keynote speakers IEEE & IET Fellow Prof. Chin-Chen Chang from National Chung Hsing University, Taiwan, IEEE Fellow Prof. Ben M. Chen from National University of Singapore, Singapore and Associate Editor, IEEE Transactions on Systems, Man & Cybernetics, Part C, and Prof. Ben K.M. Sim from Chinese University of Hong Kong, Hong Kong.

We are particularly grateful to for Chin-Chen Chang, Ben M. Chen and Ben K.M. Sim accepting our invitation to deliver invited talks at this year's conference. We wish to thank the Guangdong University of Business Studies, China for providing the space to hold the conference. And I would like to mention Guangdong Key lab of Electronic Commerce Market Application Technology who have worked throughout the year in preparation for this conference. It is the joint contribution of many different participants that makes the conference a success.

We would like to acknowledge the exceptional effort by the Editorial Board of the Journal of Software throughout this process.

Lastly, we wish to express our deepest thanks to the members of the Program Committee, who gave their personal free time to perform the often thankless job of reviewing many papers under extremely short deadlines, and to the volunteers and local assistants who made this program a success.

The ISECS 2009 will be held in Nanchang HangKong University, China, 22-24, May 2009, the website for ISECS 2009 is <http://www.isecs.cn/>.

We are looking forward to seeing you in Nanchang HangKong University, China.

### Guest Editors:

#### Fei Yu

Peoples' Friendship University of Russia, Russia. Email: [hunanyufei@126.com](mailto:hunanyufei@126.com)

#### Chin-Chen Chang

National Chung Hsing University, Taiwan. Email: [ccc@cs.ccu.edu.tw](mailto:ccc@cs.ccu.edu.tw)

#### Ben M. Chen

National University of Singapore, Singapore. Email: [bmchen@nus.edu.sg](mailto:bmchen@nus.edu.sg)

#### Yongjun Chen

Guangdong University of Business Studies, China. Email: [mikechen@gdcc.edu.cn](mailto:mikechen@gdcc.edu.cn)

#### Zhigang Chen

Central South University, China. Email: [czg@mail.csu.edu.cn](mailto:czg@mail.csu.edu.cn)



**Fei Yu** was born in Ningxiang, China, on February 06, 1973. Before Studying in Peoples' Friendship University of Russia, Russia, He joined and worked in Hunan University, Zhejiang University, Hunan Agricultural University, China. He has wide research interests, mainly information technology. In these areas he has published above 50 papers in journals or conference proceedings and a book has published by Science Press, China (Fei Yu, Miaoliang Zhu, Cheng Xu, et al. Computer Network Security, 2003). Above 30 papers are indexed by SCI, EI. He has won various awards in the past. He served as many workshop chair, advisory committee or program committee member of various international ACM/IEEE conferences, and chaired a number of international conferences such as IITA'07, WKDD'2008, ISIP'08, ISECS'08 ISIP'09, ISECS'09 and ISISE'08. He have taken as a guest researcher in State Key Laboratory of Information Security, Graduate School of Chinese Academy of Sciences, Guangdong Province Key Lab of Electronic Commerce Market Application Technology, Jiangsu Provincial Key Lab of Image Processing and

Jiangsu Provincial Key Laboratory of Computer Information Processing Technology.



**Chin-Chen Chang** was born in Taichung, Taiwan on Nov. 12th, 1954. He obtained his Ph.D. degree in computer engineering from National Chiao Tung University. He's first degree is Bachelor of Science in Applied Mathematics and master degree is Master of Science in computer and decision sciences. Both were awarded in National Tsing Hua University. Dr. Chang served in National Chung Cheng University from 1989 to 2005. His current title is Chair Professor in Department of Information Engineering and Computer Science, Feng Chia University, from Feb. 2005.

Prior to joining Feng Chia University, Professor Chang was an associate professor in Chiao Tung University, professor in National Chung Hsing University, chair professor in National Chung Cheng University. He had also been Visiting Researcher and Visiting Scientist to Tokyo University and Kyoto University, Japan. During his service in Chung Cheng, Professor Chang served as Chairman of the Institute

of Computer Science and Information Engineering, Dean of College of Engineering, Provost and then Acting President of Chung Cheng University and Director of Advisory Office in Ministry of Education, Taiwan.

Professor Chang has won many research awards and honorary positions by and in prestigious organizations both nationally and internationally. He is currently a Fellow of IEEE and a Fellow of IEE, UK.



**Ben M. Chen** was born in Fujian, China, on November 25, 1963, received his B.S. degree in mathematics and computer science from Xiamen University, Xiamen, China, in 1983, M.S. degree in electrical engineering from Gonzaga University, Spokane, Washington, USA, in 1988, and Ph.D. degree in electrical & computer engineering from Washington State University, Pullman, Washington, USA, in 1991.

He was a software engineer in South-China Computer Corporation, Guangzhou, China, from 1983 to 1986, and was an assistant professor from 1992 to 1993 in Department of Electrical Engineering, State University of New York at Stony Brook, USA. Since August 1993, he has been with Department of Electrical and Computer Engineering, National University of Singapore, where he is currently a full professor. His current research interests are in robust control, systems theory, control applications and the development of UAV

helicopter systems, and the modeling of financial markets.

He served as the chairman of IEEE Singapore Control Systems Chapter in 2002 and 2003, and the general chair of the 5th IEEE International Conference on Control and Automation held in Budapest, Hungary, 2005. He is currently serving as a member of Technical Committee on Control Theory, Chinese Association of Automation, China (2008-). He was the recipient of the Best Poster Paper Award at the 2nd Asian Control Conference, Seoul, Korea (1997); University Researcher Award, National University of Singapore (2000); Prestigious Engineering Achievement Award, Institution of Engineers, Singapore (2001); Temasek Young Investigator Award, Defence Science & Technology Agency, Singapore (2003); Best Industrial Control Application Prize at the 5th Asian Control Conference, Melbourne, Australia (2004); and elected to IEEE Fellow, Institute of Electrical & Electronics Engineers (IEEE), USA (2007).