Special Issue: Recent Advances in Electronic Commerce and Security & Web Information Systems and Applications


Track on Networks

Editorial

This special issue comprises of nine selected papers from the International Symposium on Electronic Commerce Security (ISECS 2009), Nanchang, China, 22-24 May 2009. The conference received 1050 paper submissions from 19 countries and regions, of which 487 were selected for presentation after a rigorous review process. From these 487 research papers, through two rounds of reviewing, the guest editors selected twelve as the best papers on the Computers track of the Conference. The candidates of the Special Issue are all the authors, whose papers have been accepted and presented at the ISECS 2009 and WISA 2009, with the contents not been published elsewhere before.

The ISECS 2009 and WISA 2009 are sponsored by Nanchang HangKong University, China, Peoples' Friendship University of Russia, Nanchang University (China), Jiangxi Normal University (China), Wuhan University (China), National Chung Hsing University (Taiwan), Institute of Software, Chinese Academy of Sciences, Sichuan University (China), and Jiaxing University (China). Technical Co-Sponsors of the conference are IEEE, IEEE Computer Society, and IEEE Computer Society Technical Committee on E-Commerce.

“Dynamic Pricing Strategy of Provider with Different QoS Levels in Web Service”, by Lean Yu, Shouyang Wang, Guowei Hua, Gang Xie, and Jinlong Zhang, proposes a new dynamic pricing model to consider order cancellation ration and different QoS levels for maximizing provider revenue.

“Model of Controlling the Hubs in P2P Networks”, by Yuhua Liu, Chun Yang, Kaixiu Xu, Naixue Xiong, proposes a new method to avoid generating the hubs in the networks by controlling the logical topology structure of P2P networks, and this controlling method can enhance the anti-vulnerability of P2P networks and ensure the networks develop continually and healthily.

“Interior Link Delay Reference of Ad Hoc Networks Based on End-to-End Measurement: Linear Analysis Model of Delay”, by Yao Ye, Cai Wandong, proposes a interior link delay reference algorithm of Ad Hoc network on the basis of End-to-End measurement method. And resolved the problem of interior link delay inference through computing the solution space for the non-homogenous linear equations based on linear analysis model of delay.

“Model-based Vulnerability Analysis of IMS Network”, by Dong Wang, Chen Liu, proposes a comprehensive vulnerability analysis model of IMS network, and makes a systematic analysis about the security objectives, assets, weaknesses, threats and other attributes of IMS network by using this model.

“Cryptanalysis of Some Client-to-Client Password-Authenticated Key Exchange Protocols”, by Tianjie Cao, Tao Quan, Bo Zhang, proposes that Kwon and Lee’s protocols and Zhu et al.’s protocol are still vulnerable to server-compromise impersonation attacks and a malicious server can eavesdrop the communication between the two clients.

“Ubiquitous Commerce: Theories, technologies, and applications” by Liyi Zhang, Qihua Liu and Xinjian Li, proposes a suitable framework and organize the u-commerce research under the proposed classification scheme. The current situation outlined by the scheme has been addressed by exploratory and early phase studies.

“A United Access Control Model for Systems in Collaborative Commerce”, by Han Ruo-Fei, Wang Hou-Xiang, Xiao Qian, Jing Xiao-Pei, and Li Hui, proposes the existing access control models and propose a united access control model, adopting some useable ideas into it. The proposed model is aimed to control privileges of internal functions and integrate them into service, establish rules for external invoking.

“SWSCF: A Semantic-based Web Service Composition Framework”, by Jianqiang Hu,Juanzi Li,Zhiyong Zeng, proposes a semantic-based Web services composition framework SWSCF which exhibits flexibility to integrate services in terms of application domain semantics and dynamic business requirements.

“The Social Network Mining of BBS”, by Lixin Zhou, Jichang Ding, Yi Wang, Bowen Cheng, Fei Cao, analyze every useful message during their interaction through BBS to mine what kinds of attitudes they show to others, and also get some personal information using data mining technology, to establish the social network, to find out the key figures who are the more active or important BBS users than others.

We are particularly grateful to Guangnan Ni, Chin-Chen Chang, Jen-Yao Chung, Ben M. Chen, and Dongfen Yuan for accepting our invitation to deliver invited talks at this year’s conference. We wish to thank the Nanchang HangKong University, China for providing the venue to host the conference. In particular, we would like to acknowledge School of Computing, Nanchang HangKong University, China, who has worked throughout the year in preparation for this conference. We would like to take this opportunity to thank the authors for the efforts they put in the preparation of the manuscripts and for their valuable contributions. We wish to express our deepest gratitude to the program committee.
members for their help in selecting papers for this issue and especially the referees of the extended versions of the selected papers for their thorough reviews under a tight time schedule. Last, but not least, our thanks go to the Editorial Board of the Journal of Networks for the exceptional effort they did throughout this process.

In closing, we sincerely hope that you will enjoy reading this special issue.

**Guest Editors:**

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**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, ISIP’08, ISECS’08 ISIP’09,ISCECS’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.

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Guangxue Yue was born in 1963, Guizhou, China. He obtained his master in Hunan University. Professor, the College of Mathematics & Information Engineering, Jiaxing University, China. His main research interests include Distributed Computing & Network, Network Security, and Hybrid & Embedded Systems. In these areas he has published above 30 papers in leading journals or conference proceedings, above 20 papers are indexed by SCIE, EI. He served as many workshop chairs, advisory committee or program committee member of various international IEEE conferences, and chaired a number of international conferences such as ISECS’08, ISIP’09, ISECS’09 and ISISE’08. He have taken as a guest researcher in Jiangxi University of Science and Technology, Jiangsu Polytechnic University, State Key Laboratory for Novel Software Technology at Nanjing University, Graduate School of Chinese Academy of Sciences, Guangdong Province Key Lab of Electronic Commerce Market Application Technology.