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Shanghai, China



26-28 December 2009

Second International Symposium on
**Information
Science and
Engineering**

Edited by
Wen Chen
Fei Yu
Bo Hu
Jian Shu

Co-Sponsored by
Shanghai Institute of Electronics, China
Shanghai Jiaotong University, China
Fudan University, China
Peoples' Friendship University of Russia, Russia
National Chung Hsing University, Taiwan
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Guangdong University of Business Studies, China



PROCEEDINGS

**Second International Symposium
on Information Science
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— ISISE 2009 —

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/SISE 2009

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Message from the ISISE 2009 General Chairs

The 2009 International Symposium on Information Science and Engineering (ISISE 2009), held 26–28 December 2009, was the second in the annual series that started in Shanghai, China.

In today's globally competitive environment, advanced effective intelligent information technologies have provided users with new opportunities to be intensely connected. These new technologies interweave tightly into our private and public communications, interactions, and transactions, and inadvertently form an intricate infrastructure for critical social and institutional functions such as commerce, banking and finance, utilities, national defense, education, entertainment, and many more useful applications.

Welcome to ISISE 2009. Welcome to Shanghai, China. The 2009 International Symposium on Information Science and Engineering is co-sponsored by Shanghai Institute of Electronics, China; Shanghai Jiaotong University, China; Fudan University, China; Peoples' Friendship University of Russia, Russia; National Chung Hsing University, Taiwan; Jiaxing University, China; Nanchang Hangkong University, China; and Guangdong University of Business Studies, China. Much work went into preparing a high-quality program.

The goal of ISISE 2009 was 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 many areas of security for electronic commerce. Symposium participants heard from renowned keynote speakers including IEEE Fellow Prof. Jun Wang from Chinese University of Hong Kong, Hong Kong; IEEE and IET Fellow Prof. Chin-Chen Chang from National Chung Hsing University, Taiwan, and chair of the IEEE Shanghai Section; and Prof. Junfa Mao from Shanghai Jiaotong University, China.

We would like to thank the program chairs, organization staff, and members of the program committees for their hard work. We hope that ISISE 2009 was successful and enjoyable to all participants. We also thank Mr. Randall Bilof for his wonderful editorial service to this proceedings.

We hope each of you enjoyed successful deliberations, stimulating discussions, new friendships, and all the enjoyment Shanghai, China, offers. While this is a truly remarkable symposium, there is more yet to come. We look forward to seeing all of you next year at ISISE 2010.

Wen Chen, Martha Russell, Jian Shu
ISISE 2009 General Chairs