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Honghua Tan
Qi Luo
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Contents

xii *Conference Committee*
xv *Introduction*

PIAGENG 2009: INTELLIGENT INFORMATION, CONTROL, AND COMMUNICATION TECHNOLOGY FOR AGRICULTURAL ENGINEERING

7490 02 **An integrated ESDA-based simulation on spatial distribution of rural land conflicts at provincial scale** [7490-01]
Y. Liu, L. Wan, L. Sun, Nanchang Univ. (China)

7490 03 **Wireless intelligent alarm technology with pyroelectric infrared sensor** [7490-02]
X. Chen, Nanjing Univ. of Information Science & Technology (China)

7490 04 **Retrieval of land surface temperature in Yangtze Delta by using split-window algorithm and AVHRR data** [7490-03]
S. Zha, Nantong Univ. (China); Q. Wang, Hubei Univ. (China); M. Sheng, Nantong Univ. (China); Y. Ding, Nanjing Univ. of Information Science & Technology (China)

7490 05 **A land cover classification system for use in global change modeling and based on BISE algorithm** [7490-04]
Q. Wang, H. Zhang, H. Sun, Hubei Univ. (China); J. Li, Institute of Geographical Sciences & Natural Resources Research (China)

7490 06 **Evaluation on vegetation net primary productivity using MODIS data in Inner Mongolia** [7490-05]
Y. Bao, G. Bao, L. Guo, Inner Mongolia Normal Univ. (China); Q. Hai, Inner Mongolia Normal Univ. (China) and Bao Tou Normal Univ. (China)

7490 07 **Visualized modeling platform for virtual plant growth and monitoring on the internet** [7490-06]
D. Zhou, F. Tian, P. Ren, Suzhou Vocational Univ. (China)

7490 08 **Design and application of quick computation program on fractal dimension of land-use types** [7490-07]
X. Mei, Q. Wang, Q. Wang, Hubei Univ. (China); J. Liu, Wuhan Univ. (China)

7490 09 **The analysis on the changes of the consumption structure of rural residents in China** [7490-08]
F. Lu, M. Lu, Y. Fan, Zhengzhou Univ. (China)

7490 0A **A new type of LAN embedded NC system** [7490-09]
Z. Zhu, East China Institute of Technology (China); X. Feng, Guilin Univ. of Electronic Technology (China); R. Wang, East China Institute of Technology (China)

7490 0B **A novel dynamic mesh simplification algorithm based on error control** [7490-10]
Y. Wu, Shanghai Univ. (China) and East China Univ. of Technology (China); W. Wan, B. Cui, L. Jin, Shanghai Univ. (China)

7490 0C **Design of PID control system based on LabVIEW** [7490-11]
W. Jiang, East China Institute of Technology (China) and Anhui Univ. (China); F. Yuan, East China Institute of Technology (China)

7490 0D **Research of the measurement method of vortex flowmeter** [7490-12]
W. Jiang, East China Institute of Technology (China) and Anhui Univ. (China); F. Yuan, East China Institute of Technology (China); Y. Li, East China Institute of Technology (China) and Huazhong Univ. of Science and Technology (China)

7490 0E **Induction machine Direct Torque Control system based on fuzzy adaptive control** [7490-13]
S. Li, Northeastern Univ. (China); Y. Yu, Z. Jiao, Northeastern Univ. (China) and Air Force Aviation Univ. of PLA (China); S. Gu, Northeastern Univ. (China)

7490 0F **Design of precision measurement circuits for the relative humidity** [7490-15]
Y. Wang, G. Gao, Z. Sha, Hebei Univ. of Science and Technology (China)

7490 0G **A car theft deterrent system research based on ARM9** [7490-16]
K. Zhang, J. Liu, L. Fan, Shaanxi Univ. of Science & Technology (China)

7490 0H **Study on quality controlling of low-sugar preserved kiwi fruit** [7490-17]
K. Zhang, Q. Wang, Shaanxi Univ. of Science & Technology (China)

7490 0I **Research of pulse signal processing based on sleep-monitoring alarm system** [7490-18]
K. Zhang, Y. Zeng, Shaanxi Univ. of Science & Technology (China)

7490 0J **Research on application of modern household design and intellective household system** [7490-19]
K. Zhang, Y. Zeng, J. Fan, Shaanxi Univ. of Science & Technology (China)

7490 0K **Research and functional realization of marine environment information support system** [7490-20]
Y. Tang, Y. Hao, Harbin Engineering Univ. (China); X. Wei, Hunan Space Agency (China)

7490 0L **Energy measurement device wiring detection and examination training system design** [7490-21]
X. Zhang, Taiyuan Univ. of Technology (China); G. Liu, Lvliang Power Supply Branch (China)

7490 0M **A study on operation efficiency evaluation based on firm's financial indexes and benchmark selection: take China Unicom as an example** [7490-22]
Z. Wu, Z. Tian, H. Liu, R. Huang, G. Zhu, Xi'an Univ. of Technology (China)

7490 0N **The research on recognition methods of aphid objects in complex backgrounds** [7490-23]
H.-Y. Zhao, J.-H. Zhang, Northwest A&F Univ. (China)

7490 0O **An advanced LS algorithm for monitoring ground deformation over large area using ALOS PALSAR data** [7490-24]
H. Wu, Institute of Remote Sensing Applications (China), Ctr. for Earth Observation and Digital Earth (China), and Graduate Univ. of the Chinese Academy of Sciences (China); C. Wang, H. Zhang, Y. Tang, Ctr. for Earth Observation and Digital Earth (China)

7490 0P **Intelligent annunciator for solar water heater** [7490-25]
X. Chen, Nanjing Univ. of Information Science & Technology (China)

7490 0Q **A simulation method for the fruitage body** [7490-26]
L. Lu, W. Song, L. Wang, East China Institute of Technology (China)

7490 0R **Construction of the virtual architecture community environment with VRML and JavaScript** [7490-27]
X. Feng, P. Wang, Zhejiang Ocean Univ. (China)

7490 0S **An intelligent environment monitoring system based on wireless sensor networks** [7490-28]
M. Cao, H. Wang, D. Peng, K. Jia, Lanzhou Univ. of Technology (China)

7490 0T **Research and exploration of product innovative design for function** [7490-29]
D. Wang, Z. Wei, Y. Wang, R. Tan, Hebei Univ. of Technology (China)

7490 0U **An improved enhancement algorithm based on OTSU adaptive threshold and fuzzy set theory for robot digital roadmap** [7490-30]
Y. Luo, H. Yang, Chongqing Univ. of Posts and Telecommunications (China)

7490 0V **Study of R-group positively charged amino acids' UV** [7490-31]
T. Tian, Dezhou Univ. (China); G. Liu, Dezhou Univ. (China) and Shandong Univ. (China); X. Meng, X. Tan, Dezhou Univ. (China); Y. Liu, Dezhou Univ. (China) and Shandong Univ. (China)

7490 0W **Observations of cloud condensation nuclei in Mt. Huang: instrumentation and early observations** [7490-32]
K. Chen, Y. Yin, C. Chen, W. Yang, W. Deng, Z. Hu, F. Wu, Nanjing Univ. of Information Science & Technology (China)

7490 0X **Airborne measurements of the spatial and spectral distributions of aerosol particles over Hebei area, northern China** [7490-33]
Y. Yin, Nanjing Univ. of Information Science & Technology (China); Y. Duan, Hebei Provincial Office of Weather Modification (China); Y. Zhang, Nanjing Univ. of Information Science & Technology (China); L. Shi, Hebei Provincial Office of Weather Modification (China); Z. Yang, Nanjing Univ. of Information Science & Technology (China); Z. Wu, Y. Li, Hebei Provincial Office of Weather Modification (China)

7490 0Y **Stress analysis of bearings of main eccentric shaft for width mill** [7490-34]
X. Feng, Y. Liu, Y. Cui, Z. Jiang, Zhengzhou Institute of Aeronautical Industry Management (China)

7490 0Z **FE analysis of dynamic characteristics for mill's liners** [7490-35]
X. Feng, Y. Cui, Z. Jiang, T. Hou, Zhengzhou Institute of Aeronautical Industry Management (China)

7490 10 **FE analysis of drive process of piezoelectric motor** [7490-36]
Y. Cui, X. Feng, Z. Jiang, Zhengzhou Institute of Aeronautical Industry Management (China)

7490 11 **Design of an intelligent inquiry system for agriculture information** [7490-37]
B. Cui, Shandong Univ. of Science and Technology (China)

7490 12 **Building service oriented applications for agricultural production: a flood forecast and control example** [7490-38]
Y. Su, Institute of Scientific and Technical Information (China) and Tsinghua Univ. (China); Z. Jin, Tsinghua Univ. (China); G. Peng, X. Li, Institute of Scientific and Technical Information (China)

7490 13 **The applications of mobile telecommunications in new rural areas** [7490-39]
X. Chen, T. Lu, Beijing Univ. of Posts and Telecommunications (China)

7490 14 **Multiresolution blind source separation method using sparsity for harmonic retrieval** [7490-40]
R. Li, Henan Univ. of Technology (China); F. Wang, China Electronics Technology Group Corp. (China)

7490 15 **Information extraction from semi-structured webpage based on DOM tree** [7490-41]
W.-D. Li, Y. Dong, Hebei Univ. of Economics & Business (China)

7490 16 **Analysis on some factors affecting MIMO in tunnel** [7490-42]
H. Zheng, X. Nie, Z. Xu, China Univ. of Mining and Technology (China)

7490 17 **A mixed approach for nonlinear equations based on simple smooth penalty function and filled function** [7490-43]
W. Wang, Shanghai Second Polytechnic Univ. (China); Y. Shang, Henan Univ. of Science and Technology (China); L. Zhang, Shanghai Univ. (China)

7490 18 **Multi-mobile-robot network control system based on wireless distribution system** [7490-44]
S. Guo, Y. Li, Y. He, Shanghai Univ. (China)

7490 19 **Architecture based service development for service reuse of varying levels of granularity** [7490-45]
C. Wang, Weifang Univ. (China)

7490 1A **Study on supply chain management in tourism e-commerce** [7490-46]
Y. Hu, Henan Institute of Engineering (China); S. Wu, H. Ma, Zhengzhou College of Animal Husbandry (China)

7490 1B **The hermitian positive definite solution of matrix equations and its application** [7490-47]
X. Liu, H. Li, Shandong Univ. of Technology (China)

7490 1C **An anisotropic diffusion equation based on multi-structural elements morphology** [7490-48]
J.-P. Huang, Taizhou Univ. (China)

7490 1D **Measurement of grain moisture with a coplanar electrode capacitance probe** [7490-49]
L. Yang, Y. Tan, L. Dong, Z. Mao, China Agricultural Univ. (China)

7490 1E **Study on the idity fuzzy neural network controller based on improved genetic algorithm of intelligent temperature control system in vegetable greenhouse** [7490-50]
S. Zhang, H. Yuan, Y. Zhou, N. Wang, Agricultural Univ. of Hebei (China)

7490 1F **A shot gradual changes detection algorithm based on adjacent scale wavelet transform** [7490-51]
M. Huang, J. Jiang, S. Liang, Y. Zhang, Zhengzhou Univ. of Light Industry (China)

7490 1G **Design of the fertilization expert system based on plug-in technology** [7490-52]
Y. Xu, Southwest Univ. (China); S. Yang, Chongqing Institute of Meteorological Science (China)

7490 1H **The governance mechanism of industrial clusters based on the analysis of the demand shock** [7490-53]
S. Wang, Zhejiang Gongshang Univ. (China)

7490 1I **An optimized item-based collaborative filtering recommendation algorithm based on item genre prediction** [7490-54]
D.-J. Zhang, Wenzhou Vocational and Technical College (China)

7490 1J **Application of XML in real-time data warehouse** [7490-55]
Y. Zhao, B. Wang, L. Liu, S. Ye, Xiamen Univ. (China)

7490 1K **A novel filled function for unconstrained global optimization** [7490-56]
W. Wang, Shanghai Second Polytechnic Univ. (China); Y. Shang, Henan Univ. of Science and Technology (China); L. Zhang, Shanghai Univ. (China)

7490 1L **The intelligent management and control technology for enterprise based on electrical characteristics** [7490-57]
P. Dong, F. Dai, T. Zhao, T. Li, Zhengzhou Information Science and Technology Institute (China)

7490 1M **Research on prediction of agricultural machinery total power based on grey model optimized by genetic algorithm** [7490-58]
Y. Xie, Wuhan Polytechnic Univ. (China); M. Li, State Grid Electric Power Research Institute (China); J. Zhou, C. Zheng, Wuhan Polytechnic Univ. (China)

7490 1N **An analysis of the early-warning system in emerging markets for reducing the financial crisis** [7490-59]
X. Shen, X. Song, Yanshan Univ. (China)

7490 1O **Time-frequency analysis of dynamic light scattering signals of particles** [7490-60]
Z. Li, Shandong Univ. of Technology (China); W. Li, Yiyang Bureau of Land and Resources (China); J. Shen, B. Tan, Shandong Univ. of Technology (China)

7490 1P **The application of stepwise regression method in discussing the relation between interest rate and inflation rate** [7490-61]
X. Xu, Y. Chen, H. Jia, South China Agricultural Univ. (China)

7490 1Q **Study of filtering algorithm for agile projectile's attitude determination** [7490-62]
Y. Wang, Z. Liu, J. Chen, C. Song, Beijing Institute of Technology (China)

7490 1R **UMA/GAN network architecture analysis** [7490-63]
L. Yang, W. Li, C. Deng, Y. Lv, Univ. of Electronic Science and Technology of China (China)

7490 1S **Research of rural power grids harmonics monitoring system based on technology of LabVIEW** [7490-64]
Y. Zhou, Y. Xie, S. Zhang, Agricultural Univ. of Hebei (China)

7490 1T **An uncertainty algorithm for multivariate decision tree construction** [7490-65]
Y. Qiu, Liaoning Technical Univ. (China); X. E, Liaoning Univ. of Technology (China); L. Shao, S. Sun, Liaoning Technical Univ. (China)

7490 1U **Elliptic numerical ranges of 4 × 4 reducible companion matrices** [7490-66]
X. Liu, Z. Meng, Y. Zhou, H. Li, Shandong Univ. of Technology (China)

7490 1V **The judgment of the nonsingularity on scaled factor circulant matrices** [7490-67]
X. Liu, Shandong Univ. of Technology (China); X. Ba, Shandong Drug and Food Vocational College (China); P. Wei, H. Li, Shandong Univ. of Technology (China)

7490 1W **Research of negotiation in network trade system based on multi-agent** [7490-68]
J. Cai, Hang Zhou Institute of Commerce (China); G. Wang, H. Wu, Zhejiang Gongshang Univ. (China)

7490 1X **A novel MD video coding scheme for ROI based on H.264** [7490-69]
M. M. Zhang, W. K. Liu, North China Univ. of Technology (China); R. B. Wang, North China Univ. of Technology (China) and Beijing Jiaotong Univ. (China); H. H. Bai, Y. X. Chen, Beijing Institute of Technology (China)

7490 1Y **Research on some issues of software testing technology** [7490-70]
H. Zhou, Huaiyin Teachers College (China)

7490 1Z **A methodology for the simulation of digital-to-analog converters** [7490-71]
L. Liu, Changsha Univ. of Science and Technology (China); W. Li, Hunan Univ. (China)

7490 20 **Controlling the producer-consumer problem using constant-time epistemologies** [7490-72]
L. Liu, Changsha Univ. of Science and Technology (China); W. Li, Hunan Univ. (China)

7490 21 **Decoupling erasure coding from massive multiplayer online role-playing games in model checking** [7490-73]
L. Liu, Changsha Univ. of Science and Technology (China); W. Li, Hunan Univ. (China)

7490 22 **Pseudorandom reliable algorithms and their applications to amphibious communication** [7490-74]
W. Huang, Hunan Univ. of Science and Technology (China); J. Li, Hunan Univ. (China)

7490 23 **The influence of omniscient technology on cryptography** [7490-75]
W. Huang, Hunan Univ. of Science and Technology (China); J. Li, Hunan Univ. (China)

7490 24 **A development of the lookaside buffer with Dido** [7490-76]
Y. Huang, Changsha Univ. of Science and Technology (China); L. Gan, Hunan Univ. (China)

7490 25 **A methodology for the refinement of information retrieval systems** [7490-77]
Y. Huang, Changsha Univ. of Science and Technology (China); L. Gan, Hunan Univ. (China)

7490 26 **The effect of virtual modalities on e-voting technology** [7490-78]
Y. Huang, Changsha Univ. of Science and Technology (China); L. Gan, Hunan Univ. (China)

7490 27 **Grassland dynamics and its driving forces in western Northeast China** [7490-79]
L. Chang, Northeast Institute of Geography and AgroEcology (China); J. Yang, Northeast Institute of Geography and Agroecology (China) and Graduate Univ. of the Chinese Academy of Sciences (China); S. Zhang, Y. Zhang, Northeast Institute of Geography and AgroEcology (China)

7490 28 **The application of element-free Galerkin method in the problem of the cantilever beam** [7490-80]
W. Ji, M. Xia, W. Guan, H. Zeng, Yanshan Univ. (China)

7490 29 **Application of neural network to qualitatively analyze Raman spectra of mixtures** [7490-81]
G. Li, China Univ. of Geosciences (China)

7490 2A **Parallel association rule mining for image data** [7490-82]
J. Sun, W. Pan, Liaoning Technical Univ. (China)

7490 2B **Organizational coevolutionary classifiers with fuzzy logic used in intrusion detection** [7490-83]
Z. Chen, North China Institute of Science and Technology (China)

7490 2C **Safe drinking water projects integrated information system for rural areas** [7490-84]
X. Song, Y. Zhao, C. Liu, Z. Song, Hebei Univ. of Science and Technology (China)

7490 2D **Using an improved association rules mining optimization algorithm in web-based mobile-learning system** [7490-85]
Y. Huang, J. Chen, Wuhan Univ. (China); S. Xiong, Huazhong Normal Univ. (China)

7490 2E **Research on a piezoelectric mechanism with inertial movement** [7490-86]
X. Li, J. Liu, Jilin Univ. (China)

7490 2F **Actuarial models of life insurance with stochastic interest rate** [7490-87]
X. Wei, P. Hu, Wuhan Univ. of Science and Engineering (China)

7490 2G **Simulation of temporal and spatial distribution of required irrigation water by crop models and the pan evaporation coefficient method** [7490-88]
Y. Yang, Y. Yang, S. Han, Institute of Genetics and Developmental Biology (China); Y. Hu, Hebei Provincial Academy of Water Resources (China)

7490 2H **Study on regional innovation system of agricultural science technology park: from a perspective of complex adaptive systems theory** [7490-89]
X. Li, Wuhan Univ. (China) and Wuhan Polytechnic Univ. (China); X. Wang, Wuhan Univ. (China)

7490 2I **Financial risk early-warning based on RS-SVM hybrid model** [7490-90]
D. Niu, S. Hou, Y. Zhang, X. Sun, North China Electric Power Univ. (China)

7490 2J **Biological nitrification process simulation in groundwater with dissolved oxygen controller** [7490-91]
J. Zuo, Harbin Univ. of Commerce (China)

7490 2K **Address maintenance method of Ethernet routing bridge based on hash algorithm** [7490-92]
A. Fang, A. Chen, X. Zhang, L. Luo, Nanchang Univ. (China)

7490 2L **Research on suppliers selection for e-commerce alliance** [7490-93]
C. Ju, B. Sun, D. Liu, Zhejiang Gongshang Univ. (China)

7490 2M **Routing in double layered satellite network** [7490-94]
X. Fan, G. Fei, Beijing Institute of Technology (China)

7490 2N **Application of grey relational analysis to agricultural management decision-making** [7490-95]
Y. Xie, Wuhan Polytechnic Univ. (China); M. Li, NARI Group Corp. (China); J. Sun, F. Wang, Wuhan Polytechnic Univ. (China)

7490 2O **Noise robust speech recognition based on wavelet-RBF neural network** [7490-96]
X. Hou, Xi'an Institute of Posts and Telecommunications (China)

7490 2P **A new wireless communication system based on ZigBee technology** [7490-98]
Z. Qi, Y. Zhang, L. Zhao, Q. Bai, E. Shi, Northeastern Univ. (China)

7490 2Q **Application of a one-wire digital temperature sensor in the monitoring system of a granary's temperature** [7490-99]
H. Ma, X. Wang, X. Zhang, Hebei Univ. of Science and Technology (China)

7490 2R **Establishing an integrated urban-rural monitoring system against natural disasters** [7490-100]
X. Xu, J. Wang, Wuhan Univ. (China)

7490 2S **A novel edge detection method based on adaptive neuro-fuzzy inference system** [7490-101]
L. Zhang, M. Xiao, J. Ma, H. Song, Chang'an Univ. (China)

7490 2T **Research on L-system based plant simulation platform** [7490-102]
L. Yao, F. Yan, S. Wang, Beijing Forestry Univ. (China)

7490 2U **Design and analysis of a switching power with high power factor** [7490-103]
S. Ma, Y. Xue, Wuhan Univ. of Science and Engineering (China)

7490 2V **Ecological restoration strategy for Yuanmou dry-hot valley based on immune defensive structure** [7490-104]
B. Zhang, F. Qin, China West Normal Univ. (China); G. Liu, Institute of Hazards and Environment (China); N. Ai, B. Di, Sichuan Univ. (China)

7490 2W **Experimental study on microscopic evolving process of boiling overheat liquid in boiler under microcracking condition** [7490-105]
S. Chen, China Academy of Safety Sciences and Technology (China); X. He, J. Sun, Univ. of Science and Technology of China (China)

7490 2X **Research on flexible customization of MIS process based on workflow management** [7490-106]
B. Wang, Zhejiang Gongshang Univ. (China)

7490 2Y **Bayesian of inductive cognition algorithm for adaptive classification** [7490-107]
L. Jin, W. Wan, B. Cui, Y. Wu, Shanghai Univ. (China)

7490 2Z **An improved algorithm based on multi-weighted and mathematical morphology for rural road extraction** [7490-109]
G. Xu, D. Zhang, North China Electric Power Univ. (China)

7490 30 **The effect of embedded epistemologies on complexity theory** [7490-110]
W. Huang, Hunan Univ. of Science and Technology (China); J. Li, Hunan Univ. (China)

7490 31 **Design of a real-time tax-data monitoring intelligent card system** [7490-111]
Y. Gu, G. Bi, L. Chen, Southwest Univ. of Science and Technology (China); Z. Wang, Anqing Normal College (China)

7490 32 **Research of a class of wireless communication systems in agricultural engineering** [7490-113]
J. Zhao, Beijing Union Univ. (China)

7490 33 **Global asymptotic stability of a class of wireless communication systems in agricultural engineering** [7490-114]
J. Zhao, Beijing Union Univ. (China)

7490 34 **Analysis of a class of information systems in agricultural engineering** [7490-115]
J. Zhao, Beijing Union Univ. (China)

Author Index

Conference Committee

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Honghua Tan, Wuhan Institute of Technology (China)

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Weitao Zheng, Wuhan University of Technology (China)

8 Other Related Information Technology in Agricultural Engineering
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Introduction

Information technologies such as image processing, photonics, GIS, and so on are becoming more and more important for rural development. All commercial crop and animal production systems are potential users for intelligent Information technology products. Many intelligent information technology systems have been developed to help farmers, extension workers, and administrators. Intelligent information technology will provide powerful means for the transformation of agriculture. Many countries have established associations or research centers for information technology in agriculture. It is necessary for experts from developed and developing countries to exchange ideas.

Welcome to the PIAGENG 2009 conference, held 11–12 July 2009, in Zhangjiajie, China. The 2009 International Conference on Photonics and Image in Agriculture Engineering is cosponsored by the Intelligent Information Technology Application Research Association (IITA Association), IEEE SMC TC on Education Technology and Training (USA), the Wuhan Institute of Technology (China), and Asia Pacific Human-Computer Interaction Research Center of Hong Kong. PIAGENG 2009 has seven sessions: Image Processing in Agricultural Engineering; Photonics in Agricultural Engineering; GIS, GPS, RS in Agricultural Engineering; Wireless and Optical Communications in Agricultural Engineering; Agricultural Decision Support and Simulation Systems; Intelligent Monitoring and Control/ICT Applications in Rural Areas; Sensor Technology in Agricultural Engineering; and Other related information technology in Agricultural Engineering.

The purpose of PIAGENG 2009 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 conference.

We thank the SPIE staff for their enthusiastic support our conference, and for their editorial work on these proceedings. We would also like to thank the program chairs, organization staff, and the members of the program committees for their hard work.

We hope that PIAGENG 2009 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at the PIAGENG 2010.

Honghua Tan