

2010 2nd International Conference on Signal Processing Systems

ICSPS 2010



Dalian Zhongshan Hotel, Dalian, China

5th-7th July, 2010

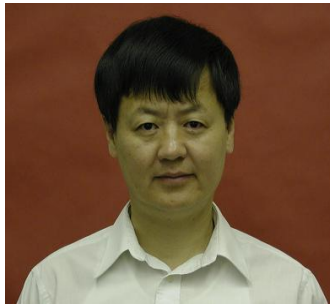
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Keynote Speaker I



IEEE Fellow, Prof. Wang Jun
The Chinese University of Hong Kong

- Professor, The Chinese University of Hong Kong, Hong Kong, 2002 to present.
- Associate Professor, The Chinese University of Hong Kong, Hong Kong, 1995 to 2001.
- Associate Professor, University of North Dakota, Grand Forks, North Dakota, USA, 1993-1997.
- Assistant Professor, University of North Dakota, Grand Forks, North Dakota, 1990-1993.

- Associate Editor, IEEE Transactions on Neural Networks, 1999 to present.
- Associate Editor, IEEE Transactions on Systems, Man, and Cybernetics - Part B: Cybernetics, 2003 to present.
- Associate Editor, IEEE Transactions on Systems, Man, and Cybernetics - Part C: Applications and reviews, 2001-2005.
- Member of Editorial Advisory Board, International Journal of Neural Systems, 2006-2008.
- Guest Co-editor, special issues in European Journal of Operational Research (vol. 93, no. 2, 1996), International Journal of Neural Systems (vol. 17, no. 6, 2007), and Neurocomputing (vol. 71, nos. 16-18., 2008).
- Various positions at numerous international conferences such as ISNN2004, ISNN2005, IROS2005, ISNN2006, WCCI2006, ICONIP2006, and WCCI2008.
- Past President of the Asia Pacific Neural Network Assembly (APNNA).

Keynote Speaker II



IEEE Fellow, Prof. Derong Liu
Department of Electrical and Computer Engineering
University of Illinois at Chicago, USA

Biography

Fellow of the IEEE (since January 2005). (2) CAREER Award from the National Science Foundation in 1999. (3) University Scholar Award from the University of Illinois for 2006–2009. (4) A total of \$1,324,233 research grants and funding from the National Science Foundation and industry since 1997. (5) A total of ten Ph.D. students graduated and a total of six M.S. students graduated. (6) Elected AdCom member of IEEE Computational Intelligence Society for 2006–2008. (7) Associate Editor and Past Letters Editor of IEEE Trans. on Neural Networks, Associate Editor of two IEEE Magazines and the IFAC's Automatica, Editor of IEEE Computational Intelligence Society's Electronic Letter, and past Associate Editor of two IEEE Transactions. (8) General Chair of two international conferences, and Program Chair of five IEEE international conferences. (9) Published four monographs and four edited books. (10) 61 refereed journal papers and 118 conference papers.

Keynote Speaker III



[Prof. Andrzej CICHOCKI](#)

Laboratory for Advanced Brain Signal Processing
Brain Science Institute, RIKEN, Japan

Biography

Andrzej CICHOCKI received the M.Sc. (with honors), Ph.D. and Dr.Sc. (Habilitation) degrees, all in electrical engineering, from [Warsaw University of Technology](#) (Poland).

Since 1972, he has been with the [Institute of Theory of Electrical Engineering, Measurement and Information Systems, Faculty of Electrical Engineering](#) at the Warsaw University of Technology, where he obtained a title of a full Professor in 1995. He spent several years at [University Erlangen-Nuerenberg](#) (Germany), at the Chair of Applied and Theoretical Electrical Engineering directed by Professor Rolf Unbehauen, as an Alexander-von-Humboldt Research Fellow and Guest Professor. In 1995-1997 he was a team leader of the laboratory for Artificial Brain Systems, at Frontier Research Program RIKEN (Japan), in the Brain Information Processing Group. He is currently the head of the laboratory for [Advanced Brain Signal Processing, at RIKEN Brain Science Institute](#) (JAPAN) in the Brain-Style Computing Group directed by Professor Shun-ichi Amari.

He is co-author of more than 100 technical papers and three internationally recognized monographs (two of them translated to Chinese).

Keynote Speaker IV



[Prof. Danilo P. Mandic](#)

Communication and Signal Processing Research Group
Department of Electrical and Electronic Engineering
Imperial College, UK

Biography

Dr. Mandic received the Ph.D. degree in nonlinear adaptive signal processing in 1999 from Imperial College, London, London, U.K. He is now a Reader with the Department of Electrical and Electronic Engineering, Imperial College London, London, U.K. He has previously taught at the Universities of East Anglia, Norwich, Norfolk, U.K., and Banja Luka, Bosnia Herzegovina.

He has written over 150 publications on a variety of aspects of signal processing and a research monograph on recurrent neural networks. He has been a Guest Professor at the Catholic University Leuven, Leuven, Belgium and Tokyo University of Agriculture and Technology (TUAT), and Frontier Researcher at the Brain Science Institute RIKEN, Tokyo, Japan. Dr. Mandic has been a Member of the IEEE Signal Processing Society Technical Committee on Machine Learning for Signal Processing, Associate Editor for IEEE Transactions on Circuits and Systems II, and Associate Editor for International Journal of Mathematical Modeling and Algorithms. He has won awards for his papers and for the products coming from his collaboration with industry.

July 5, 2010 (Monday)

Dalian Zhongshan Hotel

| | |
|------------------------------------|--------------------------|
| 10: 00 – 12: 30 13: 30 - 17: 00 | Arrival and Registration |
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- Note:** (1) You can also register at any time during the conference.
 (2) Certificate of Participation can be collected at the registration counter.
 (3) Please copy PPT files of your presentation to the secretary when registration.
 (4) The free one day tour of Dalian on July 8 can be registered at the registration counter.
 (5) The organizer doesn't provide accommodation, and we suggest you make an early reservation.

Morning, July 6, 2010(Tuesday)

Venue: Multi-Function Hall of Dalian Zhongshan Hotel (on the 5th Floor)

| | |
|-------------|---|
| 8:50-9:00 | Opening Remarks |
| 9:00-9:40 | Keynote Speaker I IEEE Fellow, Prof. Wang Jun Chinese University of Hong Kong, Hong Kong |
| 9:40-10:00 | Taking Photo and Coffee Break |
| 10:00-10:40 | Keynote Speaker II IEEE Fellow, Prof. Derong Liu University of Illinois at Chicago, USA |
| 10:40-11:20 | Keynote Speaker III Prof. Andrzej CICHOCKI Laboratory for Advanced Brain Signal Processing Brain Science Institute, RIKEN, Japan |
| 11:20-12:00 | Keynote Speaker IV Prof. Danilo P. Mandic Communication and Signal Processing Research Group Imperial College, UK |

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| 12: 10 - 13: 30 | Lunch Break (on the 38 th Floor) |
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Afternoon, July 6, 2010(Tuesday)

SESSION – 1 (ICSPS)—Signal Processing Systems

Venue: Conference room 1(on the 3th Floor)

Session Chair:

Time: 13:30 – 15:30

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| ID | Session 1 |
|------|---|
| P008 | Kinematics Characteristic Analysis of the Jumping Robot Chen Yong |
| P011 | Compressive Sensing Radar Imaging Based on Smoothed l0 Norm Xie Xiaochun |
| P014 | Error Estimate of Quadrature Sampling System via Discrete Hilbert Transform Liu Kefei |
| P020 | Exploring Multiscale Interactions between Bivariate Time Series —A BEMD and DTW Approach Yu Zhaoyuan |
| P022 | 3D face recognition without variable facial expression Bornak Behzad |
| P024 | A Robust Space-Time Multiple-Beam STAP Algorithm Fan Xikun |
| P026 | Binary sequences with Large Family Size and High Linear Complexity for Spread Spectrum Communication Systems Fanxin Zeng |
| P027 | An Efficient Face Detection Method Wu Yun |
| P034 | New Threshold and Shrinkage Function for shipborne radar echo Signal Denoising Based on Wavelet Transforms Chen Xiaonan |
| P045 | Shipborne radar echo Signal Denoising Based on Improved Threshold and Shrinkage Function Chen Xiaonan |
| P037 | A Novel Multiple Exposure Merging Method for High Dynamic Range Image Generation Wu Xiaojun |
| P040 | A frame skipping transcoding method based on optimum frame allocation in sliding window Zhou Yiran |
| P041 | MBIST design and implementation of a H.264/AVC video decoder chip Hou Ligang |
| P043 | A Kind of Identification Method of Geometric Parameters for Forest Fire Yan fei |
| P047 | Vibration Measurement and Analysis of Marine Diesel Lubricating Oil Pump Pressure Tubing Ji Qingshan |
| P049 | Random Ambience Key Generation Live on Demand Abu Nur Azman |
| P053 | High-Performance Complex Event Processing for Large-Scale RFID Applications Wang Yongheng |
| P056 | A Cross-Layer key management scheme in Ad hoc network |

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|-------|--|
| | Zeng Ping |
| P057 | Analysis of Fluctuation Mechanics for Excited Vibration System by Pressing Transient flow Wei Xiuye |
| P059 | The Design of LNA Based on BJT Working on 2.2-2.6GHz Lu Yongguang |
| p067 | Study of AIS Communication Protocol in VTS Liu Chang |
| p 098 | Study of Shore-based AIS Network Link Capacity Liu Chang |

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| 15: 30 - 15: 50 | Coffee Break |
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Afternoon, July 6, 2010(Tuesday)

SESSION – 2 (ICSPS)—Signal Processing Systems

Venue: Conference room 1(on the 3th Floor)

Session Chair:

Time: 15:50 – 17:50

| ID | Session 2 |
|-----------|--|
| P070 | AE Signal Extraction under the Noise Ji Changpeng |
| P071 | An Audio Scrambling Degree Measure Based on Information Criteria Chen Gang |
| P077 | Compressed Sensing and Reconstruction with Semi-Hadamard Matrices Geseng Zhang |
| P080 | Cooperation in Delay Tolerant Networks Yin Lei |
| P081 | Prediction of O-Linked Glycosylation Sites in Protein by Independent Component Analysis Wang Chuzheng |
| P086 | Hardware Implementation of Lifting Based Wavelet Transform Morteza Gholipour Geshnyani |
| P091 | Model-Driven Data Cleaning for Signal Processing System in Sensor Networks Nan Jiang |
| P096 | Quantized Analysis for Heart Valve Disease based on Cardiac Sound Characteristic Waveform Method Hu Yuliang |
| P108 | Multi-cycle Signal Processing Based on Keystone Transform in LFM CW Radar Lu Jianwu |
| P110 | Removal of Specular Reflections in Tooth Color Image by Perceptron Neural Nets Seong-Taek Lee |
| P113 | Improved Syndrome-based Ordered Statistic Decoding Algorithm for LDPC Codes |

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| | Dong Zijian |
| P114 | Two-dimensional Diffraction Tomography Algorithm of Underground Objects Located in Planar Multilayer Medium Lei Wentai |
| P115 | Novel Hardware Architecture of Sparse Recovery Based on FPGAs Jicheng Lu |
| P118 | A Pairwise Clustering Based Biclustering Method Zhang Yanjie |
| P119 | Artifacts Reduction in Low Bitrate Video on a Mobile Platform ZORAN IVANOVSKI |
| P121 | Near-field Beamformer Design for Circular MRI Antenna Arrays Based on MinMax Optimization Liao Yanping |
| P123 | Pulse Compression Technique for Multi Carrier Phase-Coded Radar Deng Bin |
| P603 | Image Fusion based on Regional Energy and Standard Deviation Xing Suxia |
| P611 | Improvement for the automatic Part-of-speech Tagging Based on Hidden Markov Model Yuan Lichi |
| P615 | Face Detection base on wavelet and fuzzy adjustment Javad haddadnia |
| P619 | A Study On The Implementation of Lifting Scheme Yang Hansheng |
| P624 | A New Block-Based Stochastic Adaptive Algorithm for Sparse Echo Cancellation Chen Desheng |
| P627 | Robust Cooperative Node Localization in Wireless Sensor Network Wang Jie |

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| 19: 00 - 21: 00 | Dinner (on the 5th Floor) |
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Afternoon, July 6, 2010(Tuesday)

SESSION – 3 (ICSPS)—Signal Processing Systems

Venue: Conference room 2(on the 3th Floor)

Session Chair:

Time: 13:30 – 15:30

| ID | Session 3 |
|-----------|--|
| P631 | Frequency Broadband Signal MVDR Adaptive Beamforming Method and Application Yang Jian |
| P632 | Restoring Of The Watermarking Image In Arnold Scrambling Liu Fang |
| P633 | A Design of Efficient Transport Layer Protocol for Wireless Sensor Network Gateway |

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| | Meng Lisha |
| P634 | CRLB of Initial State Estimation for Boost Phase Object Based on 8-State Gravity Turn Model Using Space-Based Observations Zhao Yan |
| P636 | A Novel Node-Disjoint Multipath Routing Protocol for Wireless Multimedia Sensor Networks Gao Teng |
| P639 | A Survey of Some Classic Self-organizing Maps with Incremental Learning Qiang Xinjian |
| P650 | A Two-Step Positioning Algorithm for an ITS Based on RFID Zhao Taiyang |
| P654 | Applications of RP-based Biomedical Simulation in Clinical Orthopaedics and Its Medical Practical Education Xing Ma |
| P021 | A Novel Wavelet Based ICA Techniques Using Kurtosis Ali Pourmohammad |
| P124 | Bearing-only Target Tracking with Improved Particle Filter Wang Fasheng |
| P127 | Automated road pavement marking detection from high resolution aerial images based on Multi-resolution image analysis and anisotropic Gaussian filtering Hang Jin |
| P134, | Fabric Defect Detection Based on Open Source Computer Vision Library OpenCV Jia Xiaojun |
| P164 | A Novel Segmentation method Using Improved PCNN for Fabric Defect Image Jia Xiaojun |
| P142 | Research of Hand Gesture Identification of sEMG based on SCICA Guo Yina |
| P165 | A Modulation with Higher Bandwidth Efficiency than OFDM He Mingyan |
| P166 | Feature parameters selection based on rough set theory for target recognition Xiu Zhihong |
| P170 | On the role of local variance in image fidelity assessment Shi Yunyu |
| P183 | A Demosaicing Algorithm Based on Adaptive Edge Sensitive and Fuzzy Assignment in CMOS Image Sensor Ge Zhiwei |
| P188 | Research on Nonlinearity Correction Imaging Algorithm of FMCW SAR Wang Ying |
| P190 | Relation of Impact Factors and Propagation Parameter of Stress Wave in non-defect Poplar and Larch Logs Luo Juying |
| P195 | Crowd Event Detection in Computer Vision Muhammad Husni |

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| 15: 30 - 15: 50 | Coffee Break |
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Afternoon, July 6, 2010(Tuesday)

SESSION – 4 (ICSPS)—Signal Processing Systems

Venue: Conference room 2(on the 3th Floor)

Session Chair:

Time: 15:50 – 17:50

| ID | Session 4 |
|-----------|--|
| P198 | Modified Input Estimation with Interacting Fading Memory for Maneuvering Target Tracking Song Liping |
| P201 | A Biomimetic Model for Bats' Echolocation Signal Processing and It's Implementation on FPGA Cheng Binbin |
| P204 | Travel Time Prediction for Bus Rapid Transit using a Statistics-Based Probabilistic Method Huang Guojun |
| P227 | High-Efficiency and Well-Integrity Method for Dynamic Acquisition of GNSS Location Information Huang Guojun |
| P487 | Least Transfer Cost Model for Optimizing Public Transport Travel Routes Huang Guojun |
| P207 | Human Visual System based Processing for High Resolution Remote Sensing Image Segmentation Wang Guizhou |
| P212 | Ionosphere Interference Suppression for HFSSR using L-Shape Array Tian Wenlong |
| P217 | Low Power Implementation of a Wavelet Based Noise Reduction System Siamak Rasoolzadeh |
| P219 | Coupling Degree Seeking Based Routing Strategy for Delay Tolerant Mobile Networks Ma Xuebin |
| P221 | Design of Three-order Cubic Non-Uniform B-Spline Curve with Multi-parameters Wang Shuxun |
| p223 | A new waveform for range-velocity decoupling in Automotive Radar Xin Bi |
| P225 | Fusion of Qualitative Beliefs Based on Linguistic Labels Gao Jian |
| P230 | Kalman Filtering Approach for Human Gene Finding Ma Baoshan |

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| P240 | Some Applications of Fault Isolation and Diagnosis Based on Labview Yan Hongwei |
| P246 | A Single-carrier Modulation System Based on the Fractional Fourier Domain Equalization in Aeronautical Channels Zheng Jing |
| :P248 | A Generalized Matrix Based Algorithm for Routing in Acyclic Unidirectional Networks Gao Yan |
| p249 | A Lung Cancer Lesions Dectection Scheme Based on CT Image Jia Tong |
| P255 | How to get navigation information within patches of sky as insects do? A primitive orientation by skylight polarization maps Wu Lianghai |
| P257 | Sigma Point H-infinity Filter for Initial Alignment in Marine Strapdown Inertial Navigation System Wang Junhou |
| P258 | Real-Time Object Detection System on PAC Duo Platform Chao-Yi Cho |
| P259 | Information Re-use and Edge Detection In Intra Mode Prediction Yu-Min Wu |
| P264 | The Analysis of Mood Taxonomy Comparision between Chinese and Western Music Liu Jing |
| P266 | Keyframe Extraction Based On Kmeas Results To Adjacent DC Images Similarity Guo Xiaojun |

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| 19: 00 - 21: 00 | Dinner (on the 5th Floor) |
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Morning, July 7, 2010(Wednesday)

SESSION – 5 (ICSPS)—Signal Processing Systems

Venue: Conference room 1(on the 3th Floor)

Session Chair:

Time: 8:30 – 10:20

| ID | Session 5 |
|-----------|---|
| P275 | Research on Power Control Algorithm Based on Game Theory in Cognitive Radio System Hou Yanli |
| P279 | Analysis Of Fluid-Structure Interaction Vibration Response For Vibration System Excited By Wave Exciter Kou Ziming |
| P287 | Novel pitch extraction methods using average magnitude difference function (AMDF) for LPC Speech Coders in Noisy Environments Suma Aswatha |
| P288 | EVALUATING THE CURRENT MARKET TRENDS OF DSP PROCESSORS FOR |

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| | SPEECH PROCESSING APPLICATIONS Suma Aswatha |
| P289 | The Study of Tibetan Prosodic Structure Prediction Model Yu Hongzhi |
| p291 | Optimization Techniques for A DSP Based H.264 Decoder Hu Honghua |
| P293 | Fast Regulate Motion Estimation Algorithm based on 9-PB Search For H.264/AVC Shih-Chang Hsia |
| P295 | CAMERA DIGITAL SIGNAL PROCESSING FOR DOCUMENT PROJECTION SYSTEM Shih-Chang Hsia |
| P301 | An Approach for Extracting the Transmitted Waveforms Based on Compound Filter for MIMO Radar Zhang Yu |
| P310 | Automatic Floor Segmentation for Indoor Robot Navigation Ma Ling |
| P462 | PRFFT: A Fast Algorithm of Sliding-window DFT with Parallel Structure Wang Jianming |
| P315 | Study on Engine Test Real-time Monitoring and Early-warning System Zhao Leigang |
| P316 | The Security of Cloud Computing System enabled by Trusted Computing Technology Zhidong Shen |
| P324 | Improved BP-OSD Cascade Decoding Algorithm Using Limited Likelihood Information Qiao Guolei |
| p326 | A Robust Voice Activity Detector Based on Weibull and Gaussian Mixture Distribution Liang Yuan |
| P327 | Improving Image Luminance Appearance through Recurrent Local Intensity Adaptation Chengho Hsin |
| P333 | An Image Zooming Technique Based on the Relative Color Difference of Pixels Wang Jiechao |
| P334 | The Influence of Video Quality on Auditory Masking Effect Experiment Pan Yang |
| P337 | Architecture Exploration and Performance Analysis of A Hardware Backprojector at Transaction Level Xue Guowei |
| P338 | A High Performance Current-Mode Instrumentation Amplifier For Biomedical Applications Hwang-Cherng CHOW |
| P340 | A CMOS Fully Differential Operational Transconductance Amplifier Operating in Sub-threshold Region and Its Application Miss Kanchana Daoden |
| P346 | A New Semi-Blind Channel Estimation In Mimo Using Second Order Statistics Dinh-Thuan Do |
| P348 | A Fast Combined Fault Diagnosis Approach Based on LWSVM |

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| Wu Dongsheng |
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| 10: 20 - 10: 40 | Coffee Break |
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Morning, July 7, 2010(Wednesday)

SESSION – 6 (ICSPS)—Signal Processing Systems

Venue: Conference room 1(on the 3th Floor)

Session Chair:

Time: 10:40 – 12:30

| ID | Session 6 |
|-----------|---|
| P349 | The Study of an Improved FCM Clustering Algorithm Wang Zebing |
| P352 | The method of Scale - energy fuzzy clustering based on series wavelet analysis in Studying fault diagnosis of Gearbox Cao Baozhen |
| P354 | TCP/UDP Network Performance Analysis of Windows Operating Systems with IPv4 and IPv6 Shaneel Narayan |
| P394 | IPv4-v6 Configured Tunnel and 6to4 Transition Mechanisms Network Performance Evaluation on Linux Operating Systems Shaneel Narayan |
| P359 | Study on Topic Tracking System Based on KNN Li Shengdong |
| P370 | System for Gear online Fault Diagnosis Based on DSP and Envelope Demodulation Method Pan Hongxia |
| P376 | Design of Network Action Surveillance System Based on Internet Real-name System Hou Libo |
| P382 | A Novel Half-toning Dithering Technique Based on Hexagon Grids Zhan Yongsong |
| P663 | Channel Estimation Using Orthogonal Superimposed Pilot for MIMO Systems Xing Huiling |
| P668 | Research on the Missing Attribute Value Data-Oriented for Decision Tree Li Xue |
| P671 | Calculation and Analysis of ACPW and UWB ACPW-Slotline Transition Chen Peng |
| P672 | Cramer-Rao Bounds of SNR Estimation for BPSK and QPSK Signals over SIMO Channels Shen Caiyao |
| P678 | Implementation of Different FIR High pass Filters using Fractional Kaiser Window P.V.Muralidhar |
| P703 | Directional Pattern Modeling And Simulation Of Triangular Grid Circular Planar Array |

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|------|---|
| | Antennas Yang Yun |
| P704 | Feature Extraction Using Wavelet Entropy and Band Powers in Brain-Computer Interface Liu Haibin |
| P718 | A Research on an Error Control Coding Method in Complicated Channel Chen Shaohua |
| P719 | The Research on the Orthogonal Modulation Multiplexing in the Narrowband Wireless Data Transmission System Chen Shaohua |
| P726 | Low Complexity User Selection for MU-MIMO Downlink based on SMMSE Transceiver Wang Li |
| P734 | Moving Object Segmentation in H.264/AVC Compressed Domain Using Ant Colony Algorithm Wang Pei |
| P737 | Research on TDOA/AOA Hybrid Positioning System Based on Kalman filtering Chu Guangqian |
| P741 | Joint Carrier Synchronization for PSK Signals From Multiple Independent Antennas and Cramer-Rao Bounds Yang ke |
| P742 | Comparative Analysis of Fuzzy Logic and Neural Network Based Controllers for Line Tracking Task in Mobile Robots Muhammad Amar |
| P743 | Design and Low Cost Implementation of a Fuzzy Logic Controller for Wall Following Behavior of a Mobile Robot Muhammad Amar |

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| 12: 30 - 13: 40 | Lunch Break (on the 38th Floor) |
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Morning, July 7, 2010(Wednesday)

SESSION – 7 (ICSPS)—Signal Processing Systems

Venue: Conference room 2(on the 3th Floor)

Session Chair:

Time: 8:30 – 10: 20

| ID | Session 7 |
|-----------|---|
| P747 | Comparative Study of Project Management Models from the Perspective of Property Owner Song Zhenhua |
| P748 | A Fuzzy Adaptive Tracking AlgorithmBased on Current Statistical ProbabilisticData Association |

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| | Jiang Li |
| P757 | A New Phase Unwrapping Method of Interferogram Wang Pei |
| P759 | MLE-IMM Algorithm of Maneuvering Target Location by Single Station with FM Radio Signal Wang Jiegui |
| P760 | The Pulse Sequence Pattern and Signal Processing of Complex Radars Wang Jiegui |
| P769 | Gravity Anomalies Signal in Sulu District And Its Wavelet Analysis Hou Zunze |
| P770 | A New Digital Anti-counterfeiting Passport Hou Zunze |
| P773 | The application of RFID technology in the inventory management Zhang Xiaocui |
| P1650 | Transmit-Receive Beamforming for MIMO Radar Zhang Yu |
| p213 | Three-dimensional Micro-Doppler Signature Extraction in MIMO Radar; Luo Ying |
| p454 | Analysis of Micro-Doppler Effect in SIMO Radar Luo Ying |
| p299 | Inverse Synthetic Aperture 3-D Imaging Laser Radar He Jin |
| P367 | Jamming Research to SAR based on Frequency Characteristic Huang Hongxu |
| P397 | The applicaiton of Calculus on Runtime Verification Xie Ruiyun |
| P398 | Underwater Target Localization Based on DOAs of Sensor Array Network Wang Biao |
| P413 | Surveillance video summarization based on moving object detection and trajectory extraction Ji Zhong |
| P424 | Tracking Ground Targets with Road Constraint Using Multiple Hypotheses Tracking Li Cuiping |
| P428 | Research on Identification of Coal and Waste Rock based on GLCM and BP Neural Network He Jingfeng |
| P435 | 3-D Imaging Algorithm for Targets with Micro-Motion Based on HRRP Sequence Yang Dong |
| P437 | A segmentation-based CFAR algorithm for subsurface targets detection in FLGPSAR Shi Yunfei |
| P441 | An intermediary method used in Direction-finding Location System Huang Weiping |
| P442 | Detection of Foreign Fibers in Cotton on the Basis of Wavelet |

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| Zhang Chengliang |
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| 10: 20 - 10: 40 | Coffee Break |
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Morning, July 7, 2010(Wednesday)

SESSION – 8 (ICSPS)—Signal Processing Systems

Venue: Conference room 2(on the 3th Floor)

Session Chair:

Time: 10:40 – 12:30

| ID | Session 8 |
|-------|---|
| P448 | A Fast Image Encryption Scheme Based on a Nonlinear Chaotic Map Xu Shujiang |
| P452 | Joint FDOA and TDOA Location Algorithm and Performance Analysis of Dual-Satellite Formations Wu Shilong |
| P457 | Blind Detection and Estimation of OFDM Signals in Cognitive Radio Contexts Liu Weiguang |
| P460 | A geometric approach for polymer applications and processing Yin Yanfang |
| P464 | The Adaptive Beamforming Method Based on post-Multistage Filter Wang Dongxia |
| P465 | A Microphone Array Speech Enhancement Method Based on Broadband Beamforming Wang Dongxia |
| P467 | Cognitive Partners in Wireless Networks Hu Wenhao |
| P469 | Capability-Centric Attack Model for Network Security Analysis Song Shunhong |
| P 472 | The Quest for Optimal Spacecraft Attitude Determination Filtering Algorithm Using GNSS Phase Measurements: An Overview Najam Abbas Naqvi |
| P475 | A Real Time Hand Gesture Recognition System Using Motion History Image Chen-Chiung Hsieh |
| P478 | The Design of the Exclusive-OR Frequency Multiplier Circuit for the Underwater Acoustic Signal Zhao Guoku |
| P480 | Optimal Pilot Design for MIMO OFDM Channel Estimation Geng Xin |
| P482 | Modeling and Application of Data Correlations among Heterogeneous Data Sources Cui Licheng |
| P483 | An Image Segmentation Algorithm Based on Kernel Estimation and Moment-preserving Wang Lei |

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| P485 | Research of the Noise Characteristic on the Upstream Channel for HFC Network Kaihua Liu |
| P486 | Web Information Classifying and Navigation based on Neural Network Meng Qingjie |
| P489 | Face Features Extraction Based on Multi-scale LBP Liu Xiaoshan |
| P493 | Shape Context with Bilinear Interpolation Yan Bin |
| P496 | On the Security of a Certificateless Signature Scheme Liao Songqin |
| P498 | Research on a Coupled Shock-Diffusion Filter for Passive Millimeter-wave Image Enhancement Jintao Xiong |
| P499 | Research on Millimeter-wave Image Denoising Method Based on Contourlet and Compressed Sensing Jintao Xiong |
| P500 | A New Multi-view Image Coding Scheme Based on Fusion and BEMD He Peisi |
| P501 | A Novel Synchronization Feature Template Scheme Based on Coordinates of Feature Point Set Jiangao Luo |

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| 12: 30 - 13: 40 | Lunch Break (on the 38 th Floor) |
|-----------------|---|

Afternoon, July 7, 2010(Wednesday)

SESSION – 9 (ICSPS)—Signal Processing Systems

Venue: Conference room 1(on the 3th Floor)

Session Chair:

Time: 13:40 – 15:40

| ID | Session 9 |
|-----------|---|
| P504 | Spectrum Occupancy Measurement:Focus on the TV Frequency Han Yanfeng |
| P505 | Radar Echo Signal Detection with Sparse Representations Gao Dahua |
| P509 | Improve Image Annotation by Using Markov Model Weng Jinshu |
| P510 | A Fuzzy Cellular Automaton Model Based On NaSchH Model Gong Yonggang |
| P511 | Healthcare Information Integration and Shared Platform Based on Service-Oriented Architectures Gong Yonggang |

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| P513 | A Loose Time Synchronization Regime for Wireless Sensor Network Hua Xiang |
| P516 | Automatic Segmentation of Nasopharyngeal Carcinoma from CT Images: Region Growing Based Technique Chanon Tatanun |
| P520 | A High-Speed ACS Design Based on 4:2 Compression Array Zhou Meng |
| P522 | The research of modified solid supported bilayer lipid membrane electrode characteristics Lv Yingchun |
| P527 | Research Online Automatic Measure Method on Seals Parameters and Ring Light Source Design Yan Keding |
| P531 | Heart Sound Analysis based on Autoregressive Power Spectral Density Wang Haibin |
| P533 | A New Measuring Method Of Wool Diameter Based On Image Processing He Wei and Zheng Zhongmin |
| P534 | Word Boundary Detection in Continuous Speech based on Suprasegmental Features for Hindi Language ARCHANA AGARWAL |
| P539 | Blind Adaptive Decision Feedback Equalization Algorithm Correct by Instantaneous Error Xiao Ying |
| P542 | RC-Cache: Soft Error Mitigation Techniques for Low-Leakage On-Chip Caches Sun Yan |
| P551 | A new HR-tree index based on hash address Li Guobin |
| P560 | Improve Numerical Efficiency of Three-Dimensional Seismic Migration by Compressing Traveltime Table Wang Jun |
| P798 | A Radar Emitter Identification Method Based on Pulse Match Template Sequence Cai Liangliang |
| P811 | A New Framework of Biometric Encryption with Filter-bank based Fingerprint Feature Wang Zhongwei |
| P818 | The improved phase-difference algorithm of 24GHz FMCW radar for fast level tracing of bulk solid material Chen Xianzhong |
| P828 | Research on Multi-Perspective Communication Management of Software Development Project Based on Theory of Project Management Song Zhenhua |
| P829 | Vibration Diagnosis Study about the Marine Diesel Engine based on BSS Chang Yong and Hu Yihuai |
| P830 | A method for extracting the characteristic spectral line from the ship-radiated noises Wang Panpan |

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|------------------------|---------------------|
| 15: 40 - 16: 00 | Coffee Break |
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Afternoon, July 7, 2010(Wednesday)

SESSION – 10 (ICSPS)—Signal Processing Systems

Venue: Conference room 1(on the 3th Floor)

Session Chair:

Time: 16:00 – 18:00

| ID | Session 10 |
|-----------|---|
| P832 | Design of snail canal differential inductance sensor and its signal processing Pan Xiaobin |
| P833 | Feature extraction of underwater target based on the time-frequency analysis Zhang Guojun |
| P841 | High-Performance Floating Output Bandgap Circuit Ge Tao |
| P846 | A Novel Strategy for Allocation Cost of Automatic Generation Control in Electricity Market Environment Wang Juanjuan |
| P857 | COMPARATIVE STUDY OF CENTRALIZED COOPERATIVE SPECTRUM SENSING IN COGNITIVE RADIO NETWORKS MUHAMMAD EHSAN UL HAQ |
| P858 | Improved Method for Deinterleaving Radar Pulse Trains with Stagger PRI from Dense Pulse Series Fan Puhua |
| P859 | A Vision-Based Walking Posture Analysis System without Markers Yu-Ren Li |
| P862 | Application Research of Intelligent Magnetic Antenna in Loran-C Signal Receiving and Processing Wang Jie |
| P868 | SIMULATION AND CHARACTER RECOGNITION FOR PLATE MARKING MACHINE Liu Dong |
| P374 | Blind Watermarking Scheme Based on Remainder of Distance Vector of Wavelet Coefficients Mohammad Javad Dehghani |
| P577 | A Novel Single-channel SAR-GMTI Method based on Defocusing Shifted Difference Xu Ruipeng |
| P580 | Application Of Cross-Layer Design In Satellite Communication Networks Lv Rong |

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|------|--|
| P584 | A High Level Security Mechanism for Internet Polls Hossein Abbasimehr |
| P586 | Spectral Analysis of Human Sleep EEG Signal Md. Shahedul Amin |
| P587 | A Cavity Detection Method Based on Machine Vision Zhao Yuhong |
| P592 | Study of Camera Calibration Algorithm Based on Spatial Perpendicular Intersect Lu Liping |
| P593 | Design and Implementation of a Dual-Interface Radar Data Recorder Jiang Hai |
| P595 | A New MAC Mechanism to Resolve 802.11b Performance Anomaly Liu Yumei |
| P882 | A modified dynamic antenna selection algorithm for MIMO system Gu Chaozhi |
| P884 | Implementation of Motor Electromagnetic Noise Detection by Mutual Induction Long Jianxiang |
| P885 | ESB-Based Architecture for Data Integration and Sharing of Crop Germplasm Resources Investigation Si Haiping |
| P886 | A Digital Watermarking Algorithm against Dithering Attack Based on Watson Perceptual Pattern Mao Ming |
| P888 | AUTOMATIC MARKING OF PUNJABI SYLLABLE BOUNDARIES IN A SOUND FILE AMANPREET KAUR |

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|-----------------|---|
| 12: 30 - 13: 40 | Lunch Break (on the 38 th Floor) |
|-----------------|---|

Afternoon, July 7, 2010(Wednesday)

SESSION – 11 (ICSPS)—Signal Processing Systems

Venue: Conference room 2(on the 3th Floor)

Session Chair:

Time: 13:40 – 15:40

| ID | Session 11 |
|-----------|---|
| P891 | A Binarization Method of Quick Response Code Image Zou Xiong |
| P899 | Research and Implement of Distributed Model of Network Management System Based on J2EE Architecture and Web Techniques Huang Yuanming |
| P900 | The research and application of the Chinese machinery word segmentation algorithm based on improved PATRICIA tree dictionary |

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| | Yimamu'aishan.Abudoulikemu |
| P904 | A Scalable Intelligent Service Model for Video Surveillance System Based on RTCP Yimamu'aishan.Abudoulikemu |
| P911 | A ZigBee Based Embedded Remote Control System Cui Chengyi |
| P918 | A Novel Low Voltage and High Speed CMOS Charge Pump Circuit Fan Qiang |
| P919 | Study on Seismic Dynamic Response Rules of Tunnel Portal Jia Jiabin |
| P922 | A novel CMOS Current-Steering Amplifier based Ring Oscillator with the Waveform Shaping Circuit Liu Yili |
| P923 | Selection of The Optimal Wavelet Bases for Wavelet De-noising of Partial Discharge Signal Du ZhaoHeng |
| P925 | Analysis On Electromagnetic Model of Electronic System Based on BLT equation Zhou Xing |
| P935 | Research on Calculation of average temperature of friction plate surface of Mini car clutch Shi Qingping |
| P938 | Audio Information Hiding Based on Distance Metric Xu Anying |
| P939 | Motion Vector Coding With Decoder Selectable PMV Heechul Yang |
| P944 | The Characteristics and Identification of " Oil Bright Spot " in Chepaizi Wang Shuhua |
| P945 | Pilot-Induced Oscillations (PIO) susceptibility Evaluation Approach based on Sequential Quadratic Programming Yan Shiwei |
| P1604 | Performance of Distributed GLD Codes over Mobile-to-Mobile Fading Channels Han Changcai |
| P1605 | Design and Analysis of a 2-DOF Hybrid-driven Planar Parallel Manipulator Based on Virtual Prototype Technology Zi Bin |
| P1607 | Millimeterwave Radar High-Resolution Imaging via OFDM Waveforms Wang Wenxin |
| P1613 | A Robust Time Synchronization Scheme for MB-OFDM UWB System Wang Xiaoyan |
| P1614 | The Effects of Input Signal-to-Noise Ratio on Compressive Sensing SAR Imaging Tian Jihua |
| P1623 | Research and Application of Correlation Analysis Method in Sky-screen Velocity Measure System Li Hanshan |
| P1628 | Power Harmonic Analysis Based on All-phase FFT |

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| | Zhang Yonghui |
| P1629 | Phase measurement of three-phase power based on all-phase FFT Zhang Yonghui |
| P1630 | Lifting Wavelet Packet Transform Based Damage Detection Of Composite Plate Structures Jinshou Jiang |

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| 15: 40 - 16: 00 | Coffee Break |
|------------------------|---------------------|

Afternoon, July 7, 2010(Wednesday)

SESSION – 12 (ICSPS)—Signal Processing Systems

Venue: Conference room 2(on the 3th Floor)

Session Chair:

Time: 16:00 – 18:00

| ID | Session 12 |
|-----------|---|
| P1632 | Fiber-Optic Gyrocompass Performance Test and Combined Dead Reckoning (DR) Navigation Scheme Design Chen Muqing |
| P1640 | Position and Speed Fusion Algorithm in Underwater Towed System Chen Muqing |
| P1634 | Space-Time Adaptive Processing for Sea Clutter and Jamming Suppression in Radar Seekers Zhao Lei |
| P1638 | Entropy-based Action Features Selection Using Histogram Intersection Kernel Liu Shu |
| P1639 | Integrated Navigation System Underwater and Precision Analysis Used in Synthetic Aperture Sonar Motion Compensation Sun Zhenyu |
| P1641 | GOP-Level Parallelization of the H.264 Decoder without a Start-Code Scanner Ahmet Gürhanlı |
| P1642 | Cross-layer Design in Multiuser Diversity System Zhang Yuling |
| P1643 | Damage detection in moment frame building by using Hilbert-Huang transform Fardin Raufi |
| P1644 | Dynamic grooming algorithm in multi-domain mesh optical networks. Wu Jingjing |
| P1645 | Audio aggregation zero-watermark algorithm based on(k, n/k=n) Li Juan |
| P1646 | Differential Evolution Based on A Novel Double-Population Strategy Chen chen |
| P1648 | A Non-Coherent Receiving Solution for Near Field Pulse UWB Communication |

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| | Zhang Xuan |
| P1649 | A General Two-Dimensional Spectrum Based on Polynomial Range Model for Medium-Earth-Orbit Synthetic Aperture Radar Signal Processing Huang Lijia |
| P1652 | Application of CANopen and Modbus Protocol in Rotary Screen Printing Machine Control System Pengfei Li |
| P1655 | Robust Image Registration Using Phase Congruency Susu Yao |
| p1656 | Deconvolution of the Impulse Response of the Target by Modified Conjugate Gradient Method Yan yan |
| P1657 | Missile PID Controller Parameter Tuning Based on Iterative Learning Control Tang Jing |
| P1680 | Electronic Equipment Real-time Monitoring System Design based on Huffman compression principle Tang Jing |
| P1660 | Feature Extraction of Human Sleep EEG Signals using Wavelet Transform and Fourier Transform. Md. Riyasat Azim |
| P1669 | A Double-threshold Based Collaborative Spectrum Sensing Algorithm Ma Huizhu |
| P1676 | Calculation of Cisco Router Processing Power for a Large Network with Thousands of Nodes Alireza Sarikhani |
| P1681 | A New Approach for Intermediate View Synthesis Based On NSCT and Fusion Li Fangfang |
| P1685 | Ontology and database mapping enables interoperability of asynchronous systems Wu Youbo |
| P1692 | Optimal Reference Path Selection Method on Path-Dependent P2P Overlay Network Liu Qi |

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|------------------------|---|
| 19: 00 - 21: 00 | Dinner (on the 5th Floor) |
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July 8, 2010(Thursday)

Free One Day Tour Program (Dalian)



Dalian ([simplified Chinese](#): 大连; [traditional Chinese](#): 大連; [pinyin](#): Dàlián; [Japanese](#): Dairen; [Russian](#): Далянь, Dalian or Дальний, Dalny - also formerly known in English as **Dairen**) is the governing [sub-provincial city](#) in the eastern [Liaoning](#) Province of [Northeast China](#), facing [Shandong](#) to the south and the [Yellow Sea](#) to the east and the [Bohai Sea](#) to the west and south. Dalian is southernmost city of [Northeast China](#) and China's northernmost (still warm water) seaport.

More information please visit: <http://en.wikipedia.org/wiki/Dalian>

Instructions for Oral Presentations

Devices Provided by the Conference Organizer:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Laser Sticks

Materials Provided by the Presenters:

PowerPoint or PDF files

Duration of each Presentation (Tentatively):

Regular Oral Session: about 15 Minutes of Presentation 5 Minutes of Q&A

Keynote Speech: 45 Minutes of Presentation 5 Minutes of Q&A

DALIAN ZHOUSHAN HOTEL

大连中山大酒店

酒店坐拥大连市青泥洼黄金商圈全景商务至高点，百步之遥临身大连各大知名商场，毗邻大连火车站，距离大连国际机场仅需 20 分钟车程，使您的商旅生活倍感快捷和惬意，处处先人一步。1 分钟掌握城市的脉动；24 小时体验细致入微的星级服务。

The hotel is located in the business center, Qingniwa Bridge where there are many famous plazas and stores, with its convenient location next to the Dalian railway station and 20 minutes' to the Dalian International Airport by taxi. It'll supply you with the most convenient business trip and make you be a leader of others. Know the general aspect of the city within 1 minute; Experience the sensitive and careful star-grade service during 24 hours; Accompanied by the truehearted passion every day.

酒店外观(Appearance)



酒店大堂(Lobby)



俄罗斯旋转餐厅(Russian Revolving Restaurant)



会议室之一(Meeting room)



酒店拥有各式豪华客房 388 间, 其中包括 68 间充分体现国际商旅宾客需求理念的豪华行政客房。客房装饰典雅, 温馨舒适, 并为您提供完美细致的服务, 创造欣愉旅程新概念。行政楼层、女士楼层、日本楼层、印度楼层、悉听尊选!
The hotel has 388 various kinds of deluxe rooms, among which 68 rooms are on the Executive Floor in order to satisfy the international business-travel guests' requirement. Elegant and spacious rooms of this hotel give you tender feeling, attentive service make you feel like at home. Please choose as you like, Executive Floor \Lady's Floor \ Japanese Floor \ Indian Floor.

Map of the Hotel, you can also show it to the taxi driver



酒店联系方式(Contact Information):

地址: 中国辽宁省大连市中山区解放路 3-5 号

徐健(Mr Xu, Sales Manager)

电话(Mobile Phone): 15998696782

International Line: Mr Dou (Sales Manager)

Mobile Phone: +86-13904260303

The organizer doesn't provide accommodation, and we suggest you make an early reservation either to choose Bali Dynasty Resort or other neighboring ones

ICSPS 2010 Conference Secretariat Contact:

icsps@vip.163.com

IACSIT Chengdu Section: 4006-999-648 (中文咨询电话), +86-28-8652-8228 (International)