



**2017 7<sup>th</sup> IEEE International Conference On  
Electronics Information and  
Emergency Communication  
(IEEE ICEICE 2017 )**

**Great China International Trade Square  
Shenzhen&Macau, China  
July 21-23, 2017  
<http://www.iceiec.org>**





## International Conference on Electronics

### Information and Emergency Communication

IEEE ICEIEC is an annual event focusing on state of the art the various aspects of advances in Electronics Information and Emergency Communication, providing a forum for researchers, practitioners and educators to present and discuss some of the most recent innovations, trends, experiences and concerns in the fields of (1) Emergency Communication (2) satellite communications (3) Big Data and Intelligent Computing (4) Electronics Information and Communication Engineering and Application.

Topics: The conference is soliciting state-of-the-art research papers in the following areas of interest:

- **Emergency Communication**

Communication Engineering

Emergency communication

Computer Networks and Data Communication

Information Analysis and Infrastructure

Computer Networks and Data Communication

Wireless Sensor and Communication Networks

Mobile Computing and Communication

Cloud Computing and Internet of Thing

Network and Data Security

Virtual Reality and Simulation

- **Satellite communication**

FM/FDMTV Satellite

Satellite MODEM

Linear and Circular polarization of antennas on spectrum analyses

Heaven-Earth Emergency communication

- **Big Data and Intelligent Computing**

Big data and Cloud Computing

Distributed Computing and Cooperative Computing

Artificial Intelligence and Intelligent Computing

Semantic Analysis and Knowledge Engineering

Machine Learning and Pattern Recognition

Data Mining & Knowledge Discovery

Intelligence Algorithm

- **Electronics Information and Application**

Application of FPGA and DSP in Communication Devices and Networks

Deep web technology

Decision Support System

Collaborative Business System

Decision Making and Information Retrieval

Data Analysis, Prediction and Model Identification

Program Comprehension and Visualization Web Technologies and Information

Software Architectures for Real-time and Embedded Systems

Software Architectures for Cloud-based applications and Services

Functional validation and verification techniques for Software Components and Architectures

- **Communication, Network and Security**

Wireless Communication and Mobile Computing

Computer Networks and Data Communication

Data Encryption NGN, NGI, IPv6, Future Internet

Mobile Communication, WiMAX Wireless Communication, Satellite Communication

Network Security, Management, Operation, and Maintenance Optical Network, Packet Transport Network

Security & Cryptography System Security

Computer Networks Computer Security

- **System Engineering**

Robotics and Automation Engineering

System Engineering

Risk& Emergency Management System

Intelligence Algorithm and Simulation

Control Engineering and Algorithm

Decision Support System and Models

## **Conference Chairs**

Professor&IEEE Fellow Seng-Pan U,University of Macau,China  
Professor&IET Fellow Yejun He,Shenzhen University,China  
Professor Hongke Zhang,Beijing Jiaotong University,China  
Professor Tong Li, Shenzhen University,China  
Professor Wenzheng Li,Beijing University of Technology,China  
Professor Igor Bisio,University of Genoa, Italy  
Professor Rong Chang,IBM Academy of Technology, IBM Research, USA  
Professor Kay Chen Tan ,National University of Singapore, Singapore  
Professor Dongbin Zhao,Chinese Academy of Sciences, China  
Professor Lingkui Meng,Wuhan University, China  
Professor Hong Chen,China Earthquake Administration, China  
Professor Chao Gao,Vaasa University of Applied Sciences,Finland  
Professor Zhongliang Deng,Beijing University of Posts and Telecommunications, China  
Professor Shuyong Chen,China Electric Power Research Institute, China

## **Program Committee**

Li Wenzheng, Professor, Beijing University of Technology,China  
Wang Ying,Professor, Beijing University of Posts and Telecommunications, China  
Vincent Tam, Honorary Associate Professor, The University of Hong Kong,China  
Alvin Kwan, Honorary Associate Professor of Education, HKU,China  
Dongbin Zhao, Professor, Chinese Academy of Sciences, China  
Song Fei, Professor, Beijing Jiaotong University, China  
Shi Guang, Director of Academy of China Institute of Communications,China  
Li Yan, Professor, Nanjing University,China  
Hongwei Wang, Professor, Head of Control System Department, Huazhong University of Science and Technology,China  
XaoJuan Ban, Professor, The University of Science and Technology Beijing  
Wang Qun,Professor,China University of Geosciences,China  
Bingyong Tang, Professor, DongHua University  
Song Fei, professor ,eijing Jiaotong University ,China  
Lu Wei, professor , Beijing Jiaotong University ,China  
Wei ZHu Professor,Beijing Research Center of Urban System Engineering,China  
Gang,Wang Professor, Beijing Municipal Committee of Commucation,China

Niu Wenliang, Professor, Beijing Union University, China  
Liu Lianguang, Professor, North China Electric Power University, China  
Lv Ke, Professor, Graduate University Of the Chinese Academy of Sciences, China, China  
Liu Hongzhi, Professor, Beijing Technology and Business, China  
Zhao Guofeng, Professor, Chongqing University of Posts and Telecommunications, China  
Yan Jinxiao, Professor, Communication University of China, China  
Lv Weifeng, Professor, Beijing University of Aeronautics and Astronautics, China  
Luo senlin, Professor, Beijing Institute of Technology, China  
Chen Yuanzhi, Professor, Communication University of China, China  
Jin Dongbin, Professor, China Telecommunication Corporation, China  
Liu Jianmin, Professor, China Unicom Corporation, China  
Padmavathamma Mokkalala, Professor, Sri Venkateswara University, India  
Wu Qishi, Professor, University of Memphis, USA  
Junyi Shu, Professor, University of Science and Technology Beijing, China  
Van Balen Ronald, Professor, VU university of Amsterdam, Netherlands  
Uzowulu Beluolisa Williams Professor, National Emergency Management Agency  
Troelstra Simon, Professor, Paleoclimatology and Geomorphology VU University  
Amsterdam, Netherlands  
Dong Huang, Professor, Chongqing University, China

**Registration: July 21, 2016**

**Lobby of FORTUNE HOTEL LOBBY**

<b>08:30-11:30</b>	<b>Onsite Registration Arrival, Registration and Conference materials collection</b>
<b>11:50-13:30</b>	<b>Lunch 11 F, Great China International Trade Square</b>

**July 21, 2017**

**Venue: 11 Floor Conference Hall**

**Shenzhen Urban Public Security Technology Research Institute**

**Great China International Trade Square**

<b>13: 50 - 14: 00</b>	<b>Opening Remarks Prof Shaowen Ni Shenzhen Urban Public Security Technology Research Institute</b>	<b>Chair Prof Song Fei</b>
<b>14: 00 - 14: 10</b>	<b>Program Committee Report Prof Li Wenzheng Beijing University of Technology</b>	
<b>14:10- 15:00</b>	<b>Plenary Speech 1 Urban Public Safety Science and Technology Prof Shaowen Ni Shenzhen Urban Public Security Technology Research Institute</b>	
<b>15:00- 15:30</b>	<b>Photo Session Coffee Break Q&amp;A</b>	
<b>15:30-16: 20</b>	<b>Plenary Speech 2 The Design Principle of Smart Collaborative Network Prof Zhang Hongke Beijing Jiaotong University</b>	<b>Chair Prof Li Wenzheng</b>
<b>16:20-18:00</b>	<b>Oral Session</b>	
<b>18: 00 - 19: 00</b>	<b>Dinner 11 floor, Great China International Trade Square</b>	

## Oral Session

**Session Chair: Professor Li Wenzheng**

**Time: P.M.16:20-18:00, July 21, 2017**

**Venue: 11 Floor Conference Hall**

**Great China International Trade Square**

- 16:20-16:32 Fuzzy Tuning for Network Selection Mechanism in Wireless Handover Decision**  
*Thanachai Thumthawatworn, Pawut Satitsuksano, Kwankamol Nongpong,*  
Suparwat Charoenvikrom
- 16:32-16:45 Profiling and SW/HW Co-design for Efficient SDN/OpenFlow Data Plane Realization**  
*Ching-Che Wang, Yi-Ta Chen, Ding-Yuan Lee, Sheng-Chun Kao, An-Yeu Wu*
- 16:45-17:00 Applying Shuffled Frog Leaping Algorithm and Bottom Left Fill Algorithm in Rectangular Packing Problem**  
*Kanchana Daoden, Trasapong Thaiupathump*
- 17:00-17:12 A Cluster-based Geographical Routing Protocol for Multimedia Cognitive Radio Sensor Networks**  
*Sepideh Abbasi, Ghasem Mirjalily*
- 17:12-17:24 Fiber Effective Core Area Impact on Reducing Nonlinear Distortion and Raman Noise of 42.7 Gb/s RZ-DPSK over 360 Km Bidirectional Raman Span**  
*Ibrahim Syuaib, Muhamad Asvial, Eko Tjipto Rahardjo*
- 17:24-17:36 Cryptographic Key Management Methods for Mission-Critical Wireless Networks**  
*Celia Li, Cungang Yang*
- 17:36-17:48 A Multi Band Injection Lock Frequency Divider by 3 for Wireless Communication Applications**  
*Wen-Cheng Lai, Sheng-Lyang Jang, Meng-Yen Fang*
- 17:48-18:00 Breathing Analog to Digital Converter of Modulator for Wireless Sensor and Communication Applications**  
*Wen-Cheng Lai*

**July 22, 2017**  
**Venue: 11 Floor Conference Hall**  
**Great China International Trade Square**

<b>8: 00 - 8: 40</b>	<b>Plenary Speech3</b> <b>Internet of Things &amp; Fog Computing</b> <b>Prof Li Wenzheng</b> <b>Beijing University of Technology</b>	<b>Chair</b> <b>Prof Li Tong</b>
<b>8:40- 9:00</b>	<b>Coffee Break</b> <b>Q&amp;A</b>	
<b>9:00-12: 00</b>	<b>Oral Session</b>	<b>Chair</b> <b>Prof Li</b> <b>Wenzheng</b>
<b>12: 00 - 13: 00</b>	<b>Lunch</b> <b>11 floor, Great China International Trade Square</b>	
<b>18: 00 - 19: 00</b>	<b>Dinner</b> <b>11 floor, Great China International Trade Square</b>	



## Oral Session

**Session Chair: Professor Li Wenzheng**

**Time: A.M.09:00- A.M 12:00, July 22, 2017**

**Venue: 11 Floor Conference Hall**

**Great China International Trade Square**

- 002-L008**      **Simultaneous Wireless Information and Power Transfer With Energy-preserving Relaying**  
*Suye Fang, Shaoshuai Gao*
- 003-L012**      **An Improved Block CFO Estimation Algorithm Based on Zadoff-Chu Pilot Sequence for LDACS in UAV Channel**  
*Yang Ding, Tao Zhang*
- 004-L032**      **Filtered Bank Based Implementation for Filtered OFDM**  
*Yu Qiu, Ze Liu, Daiming Qu*
- 005-L030**      **Transmission Opportunity and Capacity Analysis for Cellular Based Clustered VANET**  
*Yuansong Peng, Tao Luo, Hang Zhang*
- 006-L145**      **Complex Network Construction Method to Extract the Nature Disaster Chain Based on Data Mining**  
*Liang Zheng, Fei Wang, Xiaocui Zheng*
- 010-L087**      **Compact Tri-Band Bandpass Filter Designed Using Stub-Loaded Stepped-Impedance Resonator**  
*Hongshu Lu, Tao Xie, Naichang Yuan, Qian Li*
- 011-L035**      **An Irregular Row Weight Problem Resolution for DVB-S2 LDPC Short Frame**  
*Han Hao, Jinshu Chen, Ying Zhou*
- 013-L036**      **CrackDex:Universal and Automatic DEX Extraction Method**  
*Zhongqing Jiang, Anmin Zhou, Liang Liu, Peng Jia, Luping Liu, Zheng Zuo*
- 014-L044**      **Contention Window Adaptation of Listen-Before-Talk Scheme for LTE and Wi-Fi Coexistence in Unlicensed Spectrum**  
*Hengheng Hu, Chong Tan, Min Zheng, Fujing Xie*
- 015-L050**      **Security of Full-Duplex Jamming SWIPT System with Multiple Non-colluding Eavesdroppers**  
*Xuanxuan Tang, Wendong Yang, Yueming Cai, Weiwei Yang, Yuzhen Huang*
- 016-L102**      **The Influence of Temporal Factors to Frequency of NVIS Communication**  
*Zhigang Zhang, Mengwen Li, Xiaona Sun*
- 017-L065**      **Improved Object Tracking Algorithm Based on Tracking-Learning-Detection Framework**  
*Wu Runze, Wei Yuxing, Zhang Jianlin*
- 019-L124**      **A High-Parallelism Detection Algorithm for Massive MIMO Systems**

*Huan Li, Xuying Zhao, Chen Guo, Donglin Wang*

- 025-L078**    **An Improved TDOA Localization Algorithm Based on Wavelet Transform**  
*Yuan Yuan, Shujuan Hou, Qingqing Zhao*
- 026-L092**    **Random Access Delay Optimization of PDT Digital Trunking System**  
*Shengnan Gao, Gang Chen, Hai Li, Ling Zhuo*
- 027-L129**    **An Improved Method for Separation of Garbled Secondary Surveillance Radar Replies**  
*Cheng Li, Yu Zhang, Bo Tang*
- 028-L136**    **A Image Denoising Algorithm Based on Sparse Dictionary**  
*Chen Shen, Min Zhang*
- 029-L143**    **A Study on Security Framework Against Advanced Persistent Threat**  
*Qingyun Zhang, Huan Li, Jinsong Hu*
- 030-M130**    **Communication Transmitter Individual Feature Extraction Method Based on Stacked Denoising Autoencoders Under Small Sample Prerequisite**  
*Jianhang Huang, Yingke Lei, Xichang Liao*
- 032-L150**    **Security and Privacy on Internet of Things**  
*Zejun Ren, Xiangang Liu, Runguo Ye, Tao Zhang*
- 033-L135**    **Research and Improvement of Parallelization of FP-Growth Algorithm Based on Spark**  
*Fan Zhang, Youan Xiao, Yihong Long*
- 034-L137**    **Research on Database Ciphertext Retrieval Based on Homomorphic Encryption**  
*Zhibin Gong, Youan Xiao, Yihong Long, Yanli Yang*
- 035-L138**    **Research of Intrusion Detection Algorithm Based on Parallel SVM on Spark**  
*Hongbing Wang, Youan Xiao, Yihong Long*
- 036-L106**    **Lead User Identification in Online User Innovation Communities: A Method Based on Random Forest Classification**  
*Xinwei Yuan, Shaohua Yang, Chaochao Wang*
- 037-L029**    **Secure and Flexible Data Sharing via Ciphertext Retrieval for Cloud Computing**  
*Wenqing Tian, Heng Xu, Messan Komi, Junxing Zhang*
- 038-L055**    **A Video Encryption Service Based on Cloud Computing**  
*Dong Pei, Xu Guo, Junxing Zhang*
- 039-L062**    **An Activeness-based Data Forwarding Protocol for Named Data DTN**  
*Bo Cui, Ru Li*
- 040-L103**    **Improved Algorithm Identifying Spam Message of Pseudo Base Station Based on Digital Signature**  
*Sun Xumin, Liu Caixia*
- 041-L081**    **RIF:A Forwarding Strategy for Named Data Delay Tolerant Networking**

*Li Wang, Ru Li*

**042-L069 Incentive Mechanisms in Mobile Delay Tolerant Network**

*Yanqing Zhai, Xiangyu Bai, Qi Liu*

**043-L075 Optimal Fault Tolerant Service Provisioning for Cloud Application**

*Jing Liu, Na Yang*

**044-L144 A Caching Strategy Based on Content Popularity and Router Level for NDN**

*Meiju Yu, Ru Li, Yingqi Liu, Yingqi Li*

**047-L153 The Maximal Mission Efficiency for Missioned Mobile Robot Charger in Wireless Rechargeable Sensor Networks**

*Yinan Zhu*

**049-L133 A Signaling Compression Method for MCPTT Trunking Communication System Based on Carrier Aggregated Broadband System**

*Ziguang Niu, Hai Li*

**050-L125 Performance Analysis of Sliding Window Network Coding for Energy Efficient in MANETs**

*Wanyi Feng, Hongwei Luo, Baolin Sun, Chao Gui*

**051-M070 Structural Optimization of Measurement Matrix in Image Reconstruction Based on Compressed Sensing**

*Wei Ziran, Wang Huachun, Zhang Jianlin*

**140-L123 Underground Wireless Attendance Realized by Wireless Sensor Network and Radio Frequency Identification**

*Zhou Ling-ling, Liang Liang, Li Meng, Du Yu-xin, Tong Min-ming*

**012-L048 Chirp FSK based on FRFT for Underwater Acoustic Communication**

*Zhang Kaihan, Chen Keyu, Yuan Fei, Yi Jinwang*

## Oral Session

**Session Chair: Professor Wang Ying**

**Time: P.M.13:00- P.M 18:00, July 22, 2017**

**Venue: 11 Floor Conference Hall**

**Great China International Trade Square**

- 052-L066 Research on Sound Separation and Identification of Trapped Miners Based on FastICA Algorithm**  
*Shangmeng He, ZiyuanTong, Minming Tong, Shoufeng Tang, Meng Li, Liang Liang*
- 053-L068 Application of Chain-Type Multi-hop Networks for Unmanned Aerial Vehicle in the Mine**  
*Mingyuan Fan, Ziyuan Tong, Guobing Ma, Minming Tong, Shoufeng Tang*
- 054-L101 Application of Bluetooth Communication in Mine Environment Detection Vehicle**  
*Rongyan Wen, Minming Tong,shoufeng Tang*
- 055-M058 Boundary Exploration Algorithm of Disaster Environment of Coal Mine Based on Multi-UAVs**  
*Dong Liu, Ziyuan Tong, Minming Tong, Shoufeng Tang*
- 056-L100 A New Algorithm for Preserving Global and Local Structures in Supervised Dimensionality Reduction**  
*Yinglei Song, Junbu Wang, Liang Qi, Wei Yuan, Junfeng Qu*
- 061-L126 Adaptive SRCKF Algorithm For Near-space Hypersonic Target**  
*Xuemin Hao, Jiegui Wang*
- 062-L121 2-D DOA Estimation of LFM Signal Based on Sub-Nyquist Sampling**  
*Haoran Feng, Huailin Ruan, Xingyu Yang*
- 063-L120 A Recognition Algorithm of Deception Jamming Based on Image of Time-Frequency Distribution**  
*Yang Xingyu, Ruan Huailin, Feng Haoran*
- 064-L122 WiFi Indoor Positioning Algorithm Based on Machine Learning**  
*Jianguo Zhao, Jiegui Wang*
- 071-L003 The Adaptive Step Size NLMS and FBLMS Algorithms**  
*Peng Wang, Kun Liu, Xiangzhao Guo, Qijun Zhou, Wei Jiang*
- 072-L004 Analysis of The Effect of Channel on Data Sequence Reception**  
*Zhengqian Lu, Jie Gao, Fang Wang, Yuhuai Liu*
- 073-L005 A Yield-Driven Near-Threshold 8-T SRAM Design with Transient Negative Bit-Line Scheme**  
*Chengzhi Jiang, Dayu Zhang, Song Zhang, He Wang, Zhong Zhuang, Faming Yang*
- 075-L009 Application of Improved K-medoids Algorithm in Charging Station Planning for Mobile Robot**  
*Qingdan Yuan, Jun Liu*

- 077-L015**      **Cycle Slip Detection base on Common Reference Clock GNSS Dual Antenna Receiver**  
*Pengwei Yu, Lei Zhang, Wen Chen, Chao Yu, Danan Dong*
- 078-L018**      **Survey on Certificateless Key Management Schemes in Mobile Ad Hoc Networks**  
*Qi Liu, Xiangyu Bai*
- 080-L071**      **An Anti-destroying Routing Method for Distributed Satellite Networks Based on Standby Nodes**  
*Qingli Liu, Zijing Zhang, Zhiguo Liu*
- 081-L013**      **Focusing of the FMCW Synthetic Aperture Ladar Data**  
*Guangzuo Li, Zenghui Zhang, Yifei Zhang, Di Mo, Ning Wang, Ran Wang, Keshu Zhang*
- 082-L023**      **An Event-Driven High-Precision Data Fusion Algorithm based on Double-Layer Clustering**  
*Yu Xiuwu, Fan Feisheng, Zhang Feng, Zhou Lixing*
- 085-L082**      **An Improved Non-cooperative Signal Detection and Extraction Method Based on Template Matching**  
*Qingqing Zhao, Qin Zhang, Yuan Yuan*
- 086-M085**      **A Smart Collaborative Structure for Information Centric Retail Electricity Market**  
*Zhaorui Zhang, Zhonghai Liu, Jinghong Guo, Jinzhu Chen, Fei Song, Hongke Zhang*
- 088-L025**      **Data Fusion in Deep Mine Safety Monitor Based on Markov Optimized Unbiased Gray System**  
*Yu xiuwu, Zhang ke, Zhou lixing, Zhang feng, Liu qin, Hu mufang*
- 092-L010**      **Radial Increment WSN Routing Algorithm in Deep Mine**  
*Yu Xiuwu, Liu Qin, Zhang Feng, Zhou Lixing, Hu Mufang, Zhang Ke*
- 093-L021**      **Research of Cluster Routing Algorithm in Cellular Grid by Tracking Radionuclide Contamination of Uranium Trailings Impoundment**  
*Yu Xiuwu, Hu Mufang, Zhang Feng, Zhou Lixing, Liu Qin, Zhang Ke*
- 094-L094**      **Load Balancing Researches in SDN: A Survey**  
*Lin Li, Qiaozhi Xu*
- 095-M063**      **Analysis of Correlation Between Vehicle Density and Network Congestion in VANETs**  
*Zhanxu Cao, Kai Shi, Qingfeng Song, Jinsong Wang*
- 096-M042**      **Dynamic Spectrum Allocation Algorithm for Resolving Channel Conflict in Cognitive Vehicular Networks**  
*Jinyuan Gu*
- 100-L027**      **Hybrid Recommendation Algorithm Based on Trust Relationship and User Preference**  
*Wu Dong, Cai Yi, Yang Kai*
- 105-L163**      **Reasearch on Feature Mapping Based on Labels Information in Multi-label Text Classification**  
*Tao Wang, Tao Luo, Jianfeng Li, Cong Wang*
- 106-L167**      **Research on Topics Trends Based on Weighted K-means**  
*Hongzhi Tao, Jianfeng Li, Tao Luo, Cong Wang*

- 107-M097 Similar User Set Based on SLIM for Top-N Recommendations**  
*Jindong Zhu, Yijie Shi*
- 111-L039 Transceiver Circuit Design Based on OFDM Technology for Well-logging Cable Telemetry System**  
*Jingfu Yan, Dejun Liu, Xing Cheng*
- 112-L045 A Reconfigurable ASIC-like Image Polyphase Interpolation Implementation Method**  
*Lei Yang, Ruoshan Guo, Shaolin Xie, Donglin Wang*
- 114-L104 Multi-chain Time Interval Measurement Method Utilizing the Dedicated Carry Chain of FPGA**  
*Shuai Guo, Yinan Wang, Nan Li, Jietao Diao, Luo Chen*
- 115-L147 Design of LDPC Decoder Based on Adaptive Code Length**  
*Bo Chen, Congcong Chen, Xiuli Du, Kangte Zhu, Shiming Li, Yuanyuan Guo*
- 116-L076 A Survey of FPGA Placement Algorithm Research**  
*Wuqi Wang, Qingsong Meng, Zhiwei Zhang*
- 118-L020 Simulation and Demonstration for the Thermoelectric Cooler to Improve Warm-up Time of OCXO**  
*Jian Xu, Zhiyi Li, Rui Yang, Lu Gao, Mingxiang Chen*
- 120-L073 An Improved Method for Determination of Parasitic Elements for Deep Submicron Multi-finger MOSFETs**  
*Jiali Cheng, Lu Hong, Panpan Yu*
- 123-L041 Large-capacity LSB Information Hiding Scheme Based on Two-dimensional Code**  
*Yushuang Liu, Junxing Zhang*
- 124-L054 Adaptive Micro Base Station Selection Algorithm with Limited Feedback for User-Centric Distributed Millimeter-Wave Cell**  
*Tao Wang, Zhigang Zhou, Mao Li, Zhenshan Xie, Shidong Li*
- 126-L060 Research on Interest Flooding Attack Analysis in Conspiracy with Content Providers**  
*Bin Pang, Ru Li, Xin Zhang, Jinshan Shi, Manxin Huang*
- 127-L134 A Method of Conflict Detection And Resolution for Security Policy Based on Matrix Description**  
*Ming Chen, Jianxun Hong, Youan Xiao, Yihong Long*
- 128-M061 Necessity Analysis of Adaptive Waveform Selection in Intelligent Radar**  
*Bin Wang, Fengming Xin, Fengliang Wang*
- 129-L064 A Regular Expression Grouping Algorithm Based on Artificial Fish School Algorithm**  
*Liangwei Cai, Qi Sun*
- 133-L170 Behavior Classification and Image Processing for Biorobot-rat Interaction**  
*Zirong Wang, Hong Qiao*

## **Conference Banquet:**

### **Lunch:**

**Time: 12:00PM-13:30PM, July 21, 22, Great China International Trade Square 11 floor**

### **Dinner:**

**Time: 17:30 PM-19:00 PM, July 21, 22, Great China International Trade Square 11 floor**

## **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 12-15 Minutes of Presentation 3-5 Minutes of Q&A  
Plenary Speech: 45 Minutes of Presentation 5 Minutes of Q&A

**Conference Venue: Great China International Trade Square**  
**大中华国际交易广场**  
**(Metro Line 1/Line 4,at Convention & Exhibition Center Station A exit)**  
**Fuhua Road 1,Futian District, Shenzhen,**



China





## Hotel & Arrival, Registration and Conference materials

collection Venue:  **财富酒店**  
FORTUNE HOTEL

The hotel is located in Shenzhen City, Futian District  
Metro Line 1, at Huaqiang Road station D exit  
Take Taxi From Shenzhen Baoan Airport:50Minutes,120RMB  
Tel: (+86)0755-88199999-7601  
Moble: (+86)136 0265



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