## Conference Schedule

### November 17\(^{th}\), 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>15:00</td>
<td><strong>Registration</strong></td>
<td>In front of the elevator, 7F</td>
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<tr>
<td>17:00</td>
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### November 18\(^{th}\), 2015

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>07:30</td>
<td><strong>Registration</strong></td>
<td>In front of the elevator, 7F</td>
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<tr>
<td>17:00</td>
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<tr>
<td>09:00</td>
<td><strong>Opening</strong></td>
<td>Golden Dragon Hall – I, 7F</td>
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<tr>
<td>09:15</td>
<td><strong>Keynote Speech (I): Thermal Imaging: Opportunities and Challenges</strong></td>
<td>Golden Dragon Hall - I, 7F</td>
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<tr>
<td></td>
<td>for Breast Cancer Detections</td>
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<tr>
<td></td>
<td>by Prof. Tarek Gaber</td>
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<tr>
<td>10:15</td>
<td><strong>Coffee Break</strong></td>
<td>Golden Dragon Hall - II, 7F</td>
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<tr>
<td>10:45</td>
<td><strong>Keynote Speech (II): Brain-computer Interfaces and Its Applications</strong></td>
<td>Golden Dragon Hall – I, 7F</td>
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<tr>
<td></td>
<td>by Prof. Bor-Shyh Lin</td>
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<tr>
<td>11:45</td>
<td><strong>Lunch</strong></td>
<td>Golden Dragon Hall – II, 7F</td>
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<tr>
<td>13:30</td>
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<tr>
<td>13:30</td>
<td><strong>Session A01</strong></td>
<td>Phoenix Room, 7F</td>
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<tr>
<td></td>
<td>Big Data and Applications</td>
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<tr>
<td>15:00</td>
<td><strong>Session A02</strong></td>
<td>Balsam Room, 7F</td>
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<tr>
<td></td>
<td>Computers and Educational Technology Applications</td>
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<tr>
<td>15:00</td>
<td><strong>Coffee Break</strong></td>
<td>Golden Dragon Hall – II, 7F</td>
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<td>15:30</td>
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<tr>
<td>15:30</td>
<td><strong>Session A03</strong></td>
<td>Phoenix Room, 7F</td>
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<tr>
<td></td>
<td>Cross-discipline Techniques in Signal Processing and Networking</td>
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<tr>
<td>17:00</td>
<td><strong>Session A04</strong></td>
<td>Balsam Room, 7F</td>
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<tr>
<td></td>
<td>Innovative Technology</td>
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<tr>
<td>17:20</td>
<td><strong>Reception</strong></td>
<td>Golden Dragon Hall – I, 7F</td>
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<tr>
<td>07:30</td>
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<tr>
<td>08:30</td>
<td><strong>Session B01</strong></td>
<td>Phoenix Room, 7F</td>
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<tr>
<td>08:30</td>
<td>Artificial Intelligence and Evolutionary Computing</td>
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<tr>
<td>08:30</td>
<td><strong>Session B02</strong></td>
<td>Balsam Room, 7F</td>
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<tr>
<td>08:30</td>
<td>Artificial Intelligence Applied in Business and Engineering Applications</td>
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<tr>
<td>08:30</td>
<td><strong>Coffee Break</strong></td>
<td>Golden Dragon Hall – II, 7F</td>
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<td><strong>Session B03</strong></td>
<td>Phoenix Room, 7F</td>
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<tr>
<td>10:00</td>
<td>Power, Signal Processing and Communication Technologies</td>
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<tr>
<td>10:00</td>
<td><strong>Session B04</strong></td>
<td>Balsam Room, 7F</td>
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<tr>
<td>10:00</td>
<td>Computer Vision and Machine Vision Applications</td>
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<tr>
<td>12:00</td>
<td><strong>Lunch</strong></td>
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<td>13:30</td>
<td><strong>Session B05</strong></td>
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<tr>
<td>13:30</td>
<td>Technologies for Next-Generation Network Environments</td>
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<td>13:30</td>
<td><strong>Session B06</strong></td>
<td>Balsam Room, 7F</td>
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<tr>
<td>13:30</td>
<td>Systems and Applications (I)</td>
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<tr>
<td>15:00</td>
<td><strong>Coffee Break</strong></td>
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<td>15:30</td>
<td><strong>Session B07</strong></td>
<td>Phoenix Room, 7F</td>
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<tr>
<td>15:30</td>
<td>Robot Vision, Robotics, and Signal Processing</td>
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<td>15:30</td>
<td><strong>Session B08</strong></td>
<td>Balsam Room, 7F</td>
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<tr>
<td>15:30</td>
<td>Systems and Applications (II)</td>
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<tr>
<td>17:30</td>
<td><strong>Banquet</strong></td>
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<td>09:00-10:00</td>
<td>Session C01</td>
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<tr>
<td></td>
<td>Information and Management Application (I)</td>
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<tr>
<td>10:00-10:20</td>
<td>Coffee Break</td>
<td>Golden Dragon Hall – II, 7F</td>
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<tr>
<td>10:20-11:20</td>
<td>Session C02</td>
<td>Phoenix Room, 7F</td>
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<tr>
<td></td>
<td>Information and Management Application (II)</td>
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<tr>
<td>11:30</td>
<td>Lunch</td>
<td>Champs Elysees, 5F</td>
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</table>
Session A01: Big Data and Applications
Session Chair: Yueh-Hong Chen, Far East University, Taiwan

RVSP-2015-IS03-01
Fast 3D-Object Modeling with Kinect and Rotation Platform
Huarong Xu, Xiaoming Wang, and Limin Shi

RVSP-2015-IS03-02
An Improved A* Algorithm for Traffic Navigation in Real-time Environment
Chen Wang, Jeng-Shyang Pan, Hua-Rong Xu, Jie Jia, and Zhen-Yu Meng

RVSP-2015-012
Waterworks Flocculants System Based on Machine Vision and Fuzzy Control
Fei Yuan, Ya-Qiong Cai, Wei-Ling Chen, and En Cheng

RVSP-2015-024
Implementation of Automatic Control System: A Case Study of Rubber Mixing Machine
Chuan-Yu Chang, and Ji-Ming Lin

RVSP-2015-026
Wireless Protocol Secure Injection Testing Method Based on Time Selection
Chun-Rui Zhang, Yuan Liu, and Fan-Zhi Meng
Session A02: Computers and Educational Technology Applications

Session Chairs: Prof. Shi-Jer Lou, National Pingtung University of Science and Technology, Taiwan
Prof. Ru-Chu Shih, National Pingtung University of Science and Technology, Taiwan
Yuh-Ming Cheng, Shu-Te University, Taiwan

RVSP-2015-IS10-01
Use of Fuzzy Delphi Method to Develop iSTEM imagination Capacity Indicators
Huei-Yin Tsai, Chih-Chao Chung, Wei-Yuan Dzan, and Shi-Jer Lou

RVSP-2015-IS10-02
The Development of a Mobile APP for a Hospitality and Tourism Course at Technological Universities
Ru-Chu Shih, Hsin-Tien Hsin, Hsiu-Chu Huang, and Yuh-Ming Cheng

RVSP-2015-IS10-03
A Computer-aided Method to Evaluate Teamwork
Chin-Min Hsiung and Shi-Jer Lou

RVSP-2015-025
Parallel Firefly Algorithm for Localization Algorithm in Wireless Sensor Network
Van-Oanh Sai, Chin-Shiuh Shieh, Trong-The Nguyen, Yuh-Chung Lin, Mong-Fong Horng, and Quang-Duy Le

RVSP-2015-IS14-04
The Simulation Research and NIST Test of Binary Quantification Methods for the Typical Chaos
Juan Wang, Yihai Wang, Xin Wen, Taiheng Yang, and Qun Ding
Session A03: Cross-discipline Techniques in Signal Processing and Networking
Session Chair: Hsiang-Cheh Huang, National University of Kaohsiung, Taiwan

RVSP-2015-IS05-01
Design of Triple-Band Fork-Shaped CPW-fed Antenna
Yuh-Yih Lu, Sheng-Hung Wu, and Hsiang-Cheh Huang

RVSP-2015-IS05-02
Error Resilient Transmission for Compressed Sensing of Color Images with Multiple Description Coding
Hsiang-Cheh Huang, Po-Liang Chen, and Feng-Cheng Chang

RVSP-2015-IS05-03
The Analysis of Reconstruction Efficiency with Compressive Sensing in Different K-Spaces
Feng-Cheng Chang, and Hsiang-Cheh Huang

RVSP-2015-IS05-04
Enhancements of Reversible Data Hiding by Interpolation-Based Prediction with Difference Alteration
Hsiang-Cheh Huang, Chuan-Chang Lin, and Yueh-Hong Chen

RVSP-2015-IS05-05
Visual Secret Sharing for Copyright Protection and Authentication of Color Images
Hsiang-Cheh Huang, Jiun Lin, and Yuh-Yih Lu

RVSP-2015-IS05-06
Robust Watermarking for Wavelet-Based Stereoscopic Images with Genetic Algorithm
Yueh-Hong Chen and Hsiang-Cheh Huang
Session A04: Innovative Technology

Session Chair: Prof. Chang-Tzuoh Wu, National Kaohsiung Normal University, Taiwan

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A Numerical Study of the 3-Dimensional Turbulent Flow Past a Bladeless Fan
Te-Ming Chou, Song-Yih Lin, and Horng-Kai Jinn

RVSP-2015-IS06-03
Numerical Analysis of the Pennes Bioheat Transfer Equation on Skin Surface
Song-Yih Lin and Te-Ming Chou

RVSP-2015-IS06-04
A Usability-Based Innovative Design of Labor-Saving Mop
Chang-Tzuoh Wu and Song-Yih Lin

RVSP-2015-016
Resisting Dynamic Strategies in Gradually Evolving Worlds
Chia-Jung Lee, Chao-Kai Chiang, and Mu-En Wu

RVSP-2015-IS14-05
Investigation on the Simulation of One-dimensional Discrete Chaotic Digital Generation Circuit
Juan Wang, Yihai Wang, Chunyu Yin, Chenyang Lei, and Qun Ding
Session B01: Artificial Intelligence and Evolutionary Computing
Session Chairs: Prof. Pei-Wei Tsai, Fujian University of Technology, China
Prof. Anhong Wang, Taiyuan University of Science and Technology, China

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An Analysis Model for OFDMA-Based Inter-cell Interference
Meiling Li and Anhong Wang

RVSP-2015-IS08-02
Deceleration Convergence Strategy for Evolved Bat Algorithm
Pei-Wei Tsai, Jing Zhang, Sunmiao Zhang, Lyu-Chao Liao, Jeng-Shyang Pan, and Vaci Istanda

RVSP-2015-007
Stress analysis at trocar and endoscope interface using computational simulation - A preliminary study
Andrea Marin, Atul Kumar, Kai-Che Liu, Shih-Wei Wayne Huang, and Angelo Wang

RVSP-2015-011
An Intelligent Energy Management Scheme with Monitoring and Scheduling Approach for IoT Applications in Smart Home
Tui-Yi Yang, Chu-Sing Yang, and Tien-Wen Sung

RVSP-2015-021
Chicken Sound Recognition using Anti-noise Mel Frequency Cepstral Coefficients
Ming Lin, Shangping Zhong, and Lingli Lin
Session B02: Artificial Intelligence Applied in Business and Engineering Applications

Session Chairs: Prof. Jui-Fang Chang, National Kaohsiung University of Applied Sciences, Taiwan
Prof. Chyun-Chyi Chen, Far East University, Taiwan
Prof. Meng-Shu Chiang, Far East University, Taiwan
Prof. Ching-Hung Yeh, Far East University, Taiwan

RVSP-2015-IS11-01
Process Definition and Property Analysis in Workflow Systems Using Petri Nets and Software Component Technology
Chyun-Chyi Chen and Chun-Chi Lin

RVSP-2015-IS11-02
An Improved Fast Handover Control Scheme over the Wireless Networks
Meng-Shu Chiang and Yung-Lung Kuo

RVSP-2015-IS11-03
Flow Experience Research of Sensing-Intuitive Dimension Learning Styles base on Visual Programming Language
Ching-Hung Yeh and Hung Hsiu-Yen

RVSP-2015-IS11-04
Compared the Time Series Approach with Artificial Intelligent Method for Predication of Exchange Rate
Jui-Fang Chang and Po-Yang Lin

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Discrete chaos circuit random characteristic analysis
Wangshu Li, Bingbing Song, and Qun Ding
Session B03: Power, Signal Processing and Communication Technologies
Session Chairs: Prof. En-Chih Chang, I-Shou University, Taiwan
Prof. Rong-Ching Wu, I-Shou University, Taiwan

RVSP-2015-IS13-01
Energy Conservation for Lighting System in Metropolitan Government Building
Wen-Bin Lin, Huann-Keng Chiang, and Chia-Ching Lin

RVSP-2015-009
Direction Control Using Delaunay Triangulation for Coverage Improvement in Directional Sensor Networks
Tien-Wen Sung, You-Te Lu, Fu-Tian Lin, and Chu-Sing Yang

RVSP-2015-IS14-01
An Improved AES Encryption Algorithm Based on Chaos Theory in Wireless Communication Networks
Zi-Heng Yang, Ao-Han Li, Ling-Ling Yu, Shi-Jun Kang, Meng-Jiang Han, and Qun Ding

RVSP-2015-IS14-02
Discrete design of Lorenz chaotic system based on Euler method and image encryption
Qi Zhang, Wangshu Li, and Qun Ding

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Chrestenson Transform and its relations with Fourier Transform
Mingyong Zhou, Xiaole Shi, and Zhongkan Liu
Session B04: Computer Vision and Machine Vision Applications
Session Chairs: Prof. Mao-Hsiung Hung, Fujian University of Technology, China
Prof. Zuoxian Nie, Fujian University of Technology, China

RVSP-2015-IS02-01
Rebar Counting on Production Line Based on Machine Vision
Zuoxian Nie, Mao-Hsiung Hung, and Jing Huang

RVSP-2015-IS02-02
Adaptive Compressive Tracking Algorithm Based on SIFT Features
Haiyan Yang, Xinhua Jiang, and Sheng Gao

RVSP-2015-IS02-03
Image Retrieval by Effective Description of Macro- and Micro-Content of Images
Chang-Ming Kuo, Mao-Hsiung Hung, Nai-Chung Yang, Chung-Ming Kuo, and Chaur-Heh Hsieh

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Stereoscopic Augmented Reality for Single Camera Endoscope Using Optical Tracker, a Study on Phantom
Atul Kumar, Yen-Yu Wang, Kai-Che Liu, Shih-Wei Huang, Wen-Nung Lie, and Ching-Chun Huang

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A Robust and Flexible Access Control Scheme for Cloud-IoT Paradigm with Application to Remote Mobile Medical Monitoring
Wei Ren, Yi Ren, Mu-En Wu, and Chia-Jung Lee
Session B05: Technologies for Next-Generation Network Environments
Session Chairs: Prof. Tsu-Yang Wu, Shenzhen Graduate School, Harbin Institute of Technology, China
      Prof. Chien-Ming Chen, Shenzhen Graduate School, Harbin Institute of Technology, China

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On the Security of a Mutual Authentication and Key Agreement Protocol based on Chaotic Maps
Chien-Ming Chen, Linlin Xu, Xiaojie Zhang, Tsu-Yang Wu, and Jeng-Shyang Pan

RVSP-2015-IS01-02
Visual Tracking via Local Sparse Correlation Filters
Nana Fan, Xiao Ma, Zhenyu He, and Wei-Guo Yang

RVSP-2015-IS01-03
Improved Locality Preserving Projections for Multimodal Biometrics
Xiao Meng, Meng Chen, and Zhifang Wang

RVSP-2015-IS01-04
The Biomedical Educational Platform with an ECG Case Study for Healthcare Research
Kuo-Kun Tseng, Jiaqian Li, and Fu-Biao Ye

RVSP-2015-IS01-05
Identify the Copy & Past Frames in Compressed Surveillance Video Based on Stream Parameters
Qi Han, Huanran Wang, Zhifang Wang, and Xiamu Niu

RVSP-2015-IS01-06
DASH Bitrate-Adaptation Based on Bandwidth and Buffer
Jiahao Tan, Yingyi Liang, and Wei-Guo Yang

RVSP-2015-IS01-07
Real-Time Affine Tracking Using Re-Located Lucas-Kanade Algorithm
Xiao Ma, Nana Fan, Zhenyu He, and Weiguo Yang
Session B06: Systems and Applications (I)
Session Chair: Prof. Tien-Wen Sung, Fujian University of Technology, China

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An Optimal Clustering Formation for Wireless Sensor Network Based on Compact Genetic Algorithm
Tien-Szu Pan, Trong-The Nguyen, Thi-Kien Dao, and Shu-Chuan Chu

RVSP-2015-015
Diversity Enhanced Optimization Based on Communication Strategy Particles and Pollens
Thi-Kien Dao, Tien-Szu Pan, Trong-The Nguyen, and Jeng-Shyang Pan

RVSP-2015-010
A Speed Control Scheme of Eco-driving at Road Intersections
Tien-Wen Sung, Liang-Cheng Shiu, Fu-Tian Lin, Chu-Sing Yang

RVSP-2015-002
An Improved JPS Algorithm in Symmetric Graph
Jie Jia, Jeng-Shyang Pan, Hua-Rong Xu, Chen Wang, and Zhen-Yu Meng

RVSP-2015-IS14-10
Application Oriented Complexity Analysis of Digital Chaotic Sequence
Wei Xu, Qun Ding, and Xiangang Zhang
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Session Chairs: Hsiang-Cheh Huang, National University of Kaohsiung, Taiwan
Yueh-Hong Chen, Far East University, Taiwan

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Playing with a robot: Realization of “Red light, Green light” using a laser range finder
Keisuke Sakai, Yutaka Hiroi, and Akinori Ito

RVSP-2015-022
Video Stabilization for Fast Moving Camera Based on Feature Point Classification
Chao-Ho Chen, Tsong-Yi Chen, Wu-Chih Hu, and Min-Yang Peng

RVSP-2015-023
Front Vehicle Detection and Distance Estimation Using Single-Lens Video Camera
Chao-Ho Chen, Tsong-Yi Chen, Deng-Yuan Huang, and Kai-Wei Feng

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Design and Realization of Image Encryption System based on Compound Logistic Chaotic System
Cheng Hai, Song Yu, Huang Chunguang, Song Yu, and Ding Qun

RVSP-2015-IS14-07
Permutation of Image Encryption System based on Block Cipher and Stream Cipher Encryption Algorithm
Huang Chunguang, Cheng Hai, Song Yu, and Ding qun
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Session Chair: Prof. Chia-Hung Wang, Fujian University of Technology, China

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A Modelling Framework for Managing Risk-based Checkpoint Screening Systems with Two-type Inspection Queues
Chia-Hung Wang

RVSP-2015-027
Vision Based Front and Rear Vehicle Collision Warning System
Sen Ma, Shi-Huang Chen, Chun-Sheng Yang, Shu-Chuan Chu, and Jeng-Shyang Pan

RVSP-2015-020
Empirical Evaluations on Momentum Effects of Taiwan Index Futures Market
Chia-Hung Wang, Mu-En Wu, and Wei-Ho Chung

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Research on QPSK Carrier Synchronization Algorithm Based on Software Defined Radio
Zi-Heng Yang, Ling-Ling Yu, Qun Ding, Shi-Jun Kang, and Meng-Jiang Han

RVSP-2015-IS14-08
Discrete Chaotic Circuit Design and Performance Analysis
Wangshu Li, Bingbing Song, and Qun Ding
Session C01: Information and Management Application (I)
Session Chair:

RVSP-2015-IS12-03
The Impact of Training Investment and Employee Communication on Innovation: The Mediation of Employee Participation
Teng-Chu Steve Chiu

RVSP-2015-IS12-04
Improving Service to Accumulate Recreation Specialization Capital
Dan Liu, Shih-Ming Ou, and Qi Jiang

RVSP-2015-IS12-05
Managing Private Cars Usage from the Perspective of Owners
Qi Jiang, Qiaoping Mei, and Li Yang

RVSP-2015-IS12-06
Developing a Social Marketing Behavior Change: The Case of "Show Racism the Red Card"
Guochao Lin and Lujie Hao
Session C02: Information and Management Application (II)
Session Chair:

RVSP-2015-IS12-09
Information Resource Integration of the Supply Chain to Promote Freight Forwarding Industry
Xiu-lian Hu and Dan Liu

RVSP-2015-IS12-11
On the Mechanisms for Balance of Interests in Conversion of Scientific and Technological Achievements from the Perspective of Game
Baoguo Chen and Di Zhang

RVSP-2015-IS12-12
Application of Improved Anti-collision Algorithm of RFID in Warehouse Management System
Zhang Li

RVSP-2015-IS12-13
The development of food logistics "Four Bulks Mode" of a region based on the "Food Security Project"
Ling Qiu