CMCSN 2014 Conference Program on May 16-17

Day 1：May 16 (Friday)	
17:00~20:00	**Welcome Reception (Buffet)**
	At Howard Prince Hotel Taichung 2F
Day 2：May 17 (Saturday)	
09:00~10:10	**Opening and Keynote Speech 1**
	Professor (Dr.) Ajith Abraham Title: Engineering Intelligent Systems: Models, Current Challenges and Applications Room: ST527
10:10~10:30	**Coffee Break**
10:30~12:10	**Session 1　Instrument, Measurement, and Control** Room: ST527 **Topic Chair(s)：Prof. Huang-Nan Huang** 1. Sliding Mode Control of a Magnetic Levitation System with PID Tuning Technique ***Jeng-Tze Huang and Nguyen Ho Si Hung*** 2. Visual Measurement System for the Circular Workpiece ***Hsiao-Wei Liu and Chin-Sheng Chen*** 3. On the Resolution of the Hull and White Interest Rate Model with the ENSS Forward Interest Rate ***Hong-Ming Chen*** 4. Constructing an Intelligent Environmental Monitoring System for Air Quality Control in a Hospital ***Chao-Tung Yang, Chi-Jui Liao, Jung-Chun Liu, Walter Den, Chia-Cheng Wu, and Fang-Yie Leu*** 5. Effect of Nanoparticles on MWCNT Buckypaper for the Absorption of Electro-Magnetic Wave ***Che-Wei Tsao, L. Saravanan, Jui-Wen Pan, Hsin-Yuan Miao, Jih-Hsin Liu, Jun-Hong Weng, Li-Chih Wang***
12:10~13:30	**Lunch**
13:30~14:20	**Keynote Speech 2** **Professor Chung-Ming Chen** Title: Diffuser-Aided Diffuse Optical Imaging for Breast Tumor: A Feasibility Study Based on Time-Resolved Three-Dimensional Monte Carlo Modeling Room: ST527
14:20~15:40	**Session 2　Signal, Image, and Biomedical information Processing** Room: ST527 **Topic Chair(s)：Prof. Shuo-Tsung Chen** 1. Digital Audio Watermarking Robust to Amplitude Scaling in the Wavelet Domain ***Shuo-Tsung Chen, Huang-Nan Huang, Chur-Jen Chen, and Jinn-Yi Yeh*** 2. Parallelizing the Berlekamp-Massey Altlgorithm ***Hanan Ali, Ming Ouyang, Amira Soliman, and Walaa Sheta*** 3. Robust Image Watermarking using Karhunen-Loeve Transform ***Kuo-Kun Tseng, Xiaoxiao An and Shuo-Tsung Chen*** 4. Usage of Cloud Technologies to Implement Electronic Health Record ***Yao-Chin Wang, Indrajit Bhattacharya, Jaijit Bhattacharya, Anandhi Ramachandran, Sanjeev Maskara, Woon-Man Kung, I-Jen Chiang, and Ajit Kumar***
15:40~16:00	**Coffee Break**
16:00~17:20	**Session 3　Optimization** Room: ST527 **Topic Chair(s)：Prof. Tao-Ming Wang** 1. A Discrete Particle Swam Optimization for Scheduling Projects with Resource Constrained ***Shih-Chieh Chen and Ching-Chiuan Lin*** 2. Analytic Approach for Uncapacitated Green Supply Chain Network Design ***Shuo-Tsung Chen, Li-Chih Wang , Tzu-Li Chen, Yiwen Chen, Yin-Yann Chen, and Jinn-Yi Yeh*** 3. On MinimumZero-Sum Graph Flows ***Tao-Ming Wang, Shih-Wei Hu, and Guang-Hui Zhang*** 4. K-Partition Flash Code with BIFC-based Sharing ***Riz Rupert L. Ortiz, Herbert R. Esling, and Proceso L. Fernandez***
18:30~	**Banquet**

CMCSN 2014 Conference Program on May 18

Day 3：May 18 (Sunday)	
09:00~09:50	**Keynote Speech 3** **Dr. Pin Chung** Title: Econometric time series modeling focusing on Threshold Cointegration model Room: ST527
09:50~10:10	**Coffee Break**
10:10~12:10	**Session 4　Sensor Network and Application** Room: ST527 **Topic Chair(s)：Prof. Ming Zhao** 1. An ACO-based Algorithm for VM Scheduling with Load Balancing in Cloud Computing ***Keng-Mao Cho, Pang-Wei Tsai, Chun-Wei Tsai, and Chu-Sing Yang*** 2. A Condition-based Location Authentication Protocol for Mobile Devices ***Ci-Rong Li, Chien-Ming Chen, Mu-En Wu, Tsui-Ping Chung, and Raylin Tso*** 3. A K-L-representative community detection algorithm for social networks ***Yanxi Lu, Jeng-Shyang Pan, Lijun Yan, and Tien Szu Pan*** 4. Displacement Analysis and Consistency Verification for the Non-Intrusive AC Current Sensor ***Wei-Hung Hsu, Shih-Hsien Cheng, Lien-Yi Cho,and Sheng-Fuu Lin*** 5. Chernoff Segmented Window with Automatic Tuner for Mining Frequent Itemsets ***K Jothimani*** 6. A Computer-aided Human Computation Approach for Testing Web Application ***Shian-Shyong Tseng and Tsung-Ju Lee***
12:10~13:30	**Lunch**
13:30~15:10	**Session 5　Numerical Approximation and Computing** Room: ST527 **Topic Chair(s)：Prof. Hsin-Yun Hu** 1. Computational Analysis of the Dynamics of Plasma-Organic-Polymer-Film-Coated QCR Sensors Using Numerical Inversion of a Laplace Transform ***Kazuhiko Takahashi, Yoshie Kawanobe and Iwao Sugimoto*** 2. Monte Carlo Simulation in Finance on GPU and Multi-Core Processor ***Hong-Ming Chen and Sheng-Yen Ho*** 3. On Hexagonal Finite Volume Methods for Partial Differential Equations ***Deniel Lee and Hui-Chun Tien*** 4. Gradient Reproducing Kernel Approximation for Elasticity Problems ***Hsin-Yun Hu, J. S. Chen and Sheng-Wei Chi*** 5. Novel Almost Lossless Compression Technique on Arterial Pulse Waveforms by Spline Interpolation and Huffman Coding ***Albert C.-Y. Lin, Huang-Nan Huang, Tzu-Min Lin, Pin-Huang Hsu, and Ching-Chi Yen***
15:10~15:30	**Coffee Break**
15:30~17:10	**Session 6　Recognition, Classification, and Data Mining** Room: ST527 **Topic Chair(s)：Prof. Chih-Yu Hsu** 1. Nearest Feature Linear Regression Classification with Half Face ***Qingxiang Feng and Jeng-Shyang Pan*** 2. Weighted K-nearest Neighbor Classification Based on the Gradient of Class-Conditional Density ***Guoli Ji, Mingcheng Wu, Jingyi Fu, Meishuang Tang, and Yunlong Gao*** 3. Improved Best Distance Measurement Nearest Neighbor Rule ***Yunlong Gao, JinYan Pan, Mingcheng Wu, Wenliang Dong*** 4. Content-based Vedio Advertising: A framework ***Xiong Cao and Haijun Zhang*** 5. Texture Classification Using 2D Gabor Filter ***Ming Zhao***