December 14, 2012

Workshop on Mobile Computing, Wireless Communications, and Vehicular **Technologies**

Date: Friday, 14 Dec. 2012
Room: 3F 305.306.307

Session	Chair: Prof. Jen-Yeu Chen , National Dong Hwa University			
Chair: 1				
1020	Merging Grid into Clustering-based Routing Protocol for Wireless Sensor Networks			
	Ying-Hong Wang, Yu-Wei Lin, Yu-Yu Lin, and Hang-Ming Chang			
1036	CDTS: Coordinator Data Traffic Shunt model for Zigbee networks			
	Chinyang Henry Tseng, Shaiuhuey Wang, Bor-Shing Lin, Tong-Ying Juang, and Xiao-Ru Ji			
1039	A Zone-Based Localization Scheme for Wireless Sensor Networks with Bilateration			
	Chi-Chang Chen, Chi-Yu Chang, and Yan-Nong Li			
1069	IARC-An Improved Coverage Based Sensor Network Topology Control Algorithm			
	Wei-Jun Lin, Tsen-Jui Lin, and Lei Wang			
1185	Coverage Improvement for Directional Sensor Networks			
	Tien-Wen Sung and Chu-Sing Yang			
1191	Design and Analysis of Hybrid Wireless Mesh Networks for Smart Grids			
	Philip Huu Huynh and C. Edward Chow			
1164	Coding Scheme Improved Query Efficiency of Hierarchical MIIS Servers with Cache in			
	Heterogeneous Networks			
	Pei-Chen Tseng, Jai-Yan Tsai, and Wen-Shyang Hwang			
1183	Message Relaying with Data Aggregation for Drive-Thru Internet Services in Vehicular			
	Networks			
	Chih-Lin Hu, Chung-Chun Wang, and Jiun-Yu Tu			

Session: Wireless Ad Hoc Networks (1:00~2:30 pm)

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Chair: Prof. Yao-Chung Chang , National Taitung University		
1052	Improving Pairwise Key Predistribution in Wireless Sensor Networks	
	Neng-Chung Wang and Hong-Li Chen	
1207	Integration of EPC and wireless sensor networks for heterogeneous networking in a U-life	
	environment	
	Yao-Chung Chang	
1017	UDP Based Reliable File Delivery Mechanisms for Video Streaming over Unstable Wireless	
	Networks	
	Shih-Ying Chang, Xin-Yan Yeh, Hsin-Ta Chiao, and Hung-Min Sun	
1055	Medium Access Control with SDMA for Wireless Ad Hoc Networks	
	Neng-Chung Wang and Yu-Chun Huang	
1104	Game Theoretical Cooperative Resource Allocation for Broadcasting in Cognitive Radio	
	Networks	

Hsin-Chun Wu, Shuo-Cheng Hu, and Ai-Chun Pang

A Cluster-based Link Recovery Mechanism for Spectrum Aware On-demand Routing in 1121 Cognitive Radio Ad Hoc Networks Chih-Chieh Tang, Kuo-Feng Ssu, and Chun-Hao Yang

Session: Wireless Protocols Design (2:45~4:15 pm)

Chair: Prof. Chia-Hui Huang , National Taipei College of Business			
1120	Design and Implementation of a Software Development Kit for LLRP Readers		
	Yu-Shin Chang, Sheng-Pang Kuo, and Chua-Huang Huang		
1170	A Flow-Aware Placement of Mobile Agent Control Network over Opportunistic Networks		
	Hsiao-Tzu You, Yao-Nan Lien, and Jyh-Shyan Huang		
1177	Achieving Weighted Fairness for High Performance Distributed Coordination Function with		
	QoS Support in WLANs		
	Yeong-Sheng Chen, Fan-Chun Tseng, and Chih-Heng Ke		
1182	A Cross-Layer Design for Energy Efficient Sleep Scheduling in Uplink Transmissions of IEEE		
	802.16 Broadband Wireless Networks		
	Jen-Jee Chen, Shih-Lin Wu, and Wei-Yu Lin		
1044	The Universal Local IP Access for Small Cells		
	Yung-Chun Lin and Chai-Hien Gan		
1061	Implementation of Radar Map Using GPS in Vehicular Networks		
	Chun-I Kuo, Po-Ching Wang, Chih-Hsun Lin, Ce-Kuen Shieh, and		
	Ming-Fong Tsai		

Workshop on Image Processing, Computer Graphics, and Multimedia

Date: Friday, 14 Dec. 2012 Room: 3F 315.316.317

Session: Pattern Recognition and Object Tracking (09:30~11:30 am) Chair: Prof. Chung-Lin Huang, National Tsing Hua University			
	Wei-Syun Lin, Yi-Leh Wu, Wei-Chih Hung, and Cheng-Yuan Tang		
1133	Facial Expression Recognition Using Image Processing Techniques and Neural Networks		
	Hsi-Chieh Lee, Chia-Ying Wu, and Tzu-Miao Lin		
1138	Search Space Reduction in Pedestrian Detection for Driver Assistance System Based on		
	Projective Geometry		
	Karlis Dimza, Te-Feng Su, and Shang-Hong Lai		
1153	Fast Multi-Path Motion Estimation Algorithm with Computation Scalability		
	Kuang-Han Tai, Gwo-Long Li, Mei-Juan Chen, and Haw-Wen Chi		
1158	Moving Objects Detection based on Hysteresis Thresholding		
	Hsiang-Erh Lai, Chih-Yang Lin, Ming-Kai Chen, Li-Wei Kang, and		
	Chia-Hung Yeh		
1161	Smart Video Camera Design Real-Time Automatic Person Identification		

- Chen-Ting Ye, Tzung-Dian Wu, You-Ren Chen, Pei-An He, Pei-Qi Xie, Yuan-Yi Zhang, Shih-Meng Teng, Yen-Ting Chen, and Pao-Ann Hsiung

 Identifying Device Brand by Using Characteristics of Color Filter Array
- 1197 Identifying Device Brand by Using Characteristics of Color Filter Array

 Tang-You Chang, Guo-Shiang Lin, and Shen-Chuan Tai
- 1194 Free View Point Real-time Monitor System Based On Harris-SURF

 Tzu-Ti Chang, Fang-Yi Yu, Wei-Tsong Lee, Feng-Yu Chang, and

 Jason Wu

Session: Object Identification and Multimedia Applications (1:00~2:30 pm)

Chair: Prof. I-Cheng Chang, National Dong Hwa University

- An approach for mouth localization using face feature extraction and projection technique *Hui-Yu Huang and Yan-Ching Lin*
- 1014 Construction of a Machine Guide Dog Using a Two-mirror Omni-camera and an Autonomous Vehicle

Chih-Wei Huang and Wen-Hsiang Tsai

- Protection of Privacy-sensitive Contents in Surveillance Videos Using WebM Video Features Hsin-Hsiang Tseng and Wen-Hsiang Tsai
- A High Performance Parallel Graph Cut Optimization for Depth Estimation

 Bo-Yen Chen and Bo-Cheng Charles Lai
- 3D Spinal Cord and Nerves Segmentation from STIR-MRI
 Chih Yen, Hong-Ren Su, Shang-Hong Lai, Kai-Che Liu, and
 Ruen-Rone Lee
- 1144 Significance-Preserving-Guided Content-Aware Image Retargeting Yu-Hsien Sung, Wen-Yu Tseng, Pao-Hung Lin, Li-Wei Kang, Chih-Yang Lin, and Chia-Hung Yeh

Session: Image Processing and Video Coding (2:45~4:15 pm)

Chair: **Prof. Chua-Huang Huang**, Feng Chia University

- 1079 Comprehensive Evaluation for HE Based Contrast Enhancement Techniques

 Ming-Zhi Gao, Zhi-Gang Wu, and Lei Wang
- 1198 Robust Video Copy Detection based on Constrained Feature Points

 *Duan-Yu Chen and Yu-Ming Chiu**
- A Mass Detection System in Mammograms Using Gray Level Co-occurrence Matrix and Optical Density Features

 Shen-Chuan Tai, Zih-Siou Chen, Wei-Ting Tsai, Chin-Peng Lin,
 and Dr. Li-li Cheng
- 1125 Automatic Evaluation of Choroidal Neovascularization in Fluorescein *Kai-Shun Lin, Chia-Ling Tsai, Shih-Jen Chen, and Wei-Yang Lin*
- Speeding up the Decisions of Quad-Tree Structures and Coding Modes for HEVC Coding Units

 Shen-Chuan Tai, Chia-Ying Chang, Bo-Jhih Chen, and Jui-Feng Hu

Workshop on Algorithm, Bioinformatics, and Computation Theory

Date: Friday, 14 Dec. 2012

Room: 3F 308.309

Session: Graph Theory and Algorithms (09:30~11:30 am)

Chair: Prof. Lih-Hsing Hsu, Providence University 1163 An Upper Bound of the Rainbow Connection Number in RTCC Pyramids Fu-Hsing Wang, Ze-Jian Wu, and Yann-Jong Hwang 1054 On the Hamiltonian-Connectedness for Graphs Satisfying Ore's Theorem Shin-Shin Kao, Yuan-Kang Shih, and Hsun Su 1057 On Total Covers of Block-Cactus Graphs Yu-Ting Li, Jia-Jie Liu, and Yue-Li Wang Randomized Self-Stabilization under Distributed Daemon for 6-Coloring Planar Graph 1037 Chi-Hung Tzeng, Jehn-Ruey Jiang, Shing-Tsaan Huang, and Cheng-Feng Yeh An O*(1.4786n)-Time Algorithm for the Maximum Induced Matching Problem 1042 Maw-Shang Chang, Ling-Ju Hung, and Chau-An Miau The Longest Path Problem on Distance-Hereditary Graphs 1175 Yi-Lu Guo, Chin-Wen Ho, and Ming-Tat Ko 1208 Characterizing and Recognizing Probe Block Graphs Van Bang Le and Sheng-Lung Peng

Session: Graph Theory and Bioinformatics (1:00~2:30 pm)

Chair: **Prof. Yue-Li Wang**, National Taiwan University of Science and Technology 1128 2-Rainbow Domination and Its Practical Variation on Weighted Graphs Chung-Kung Yen 1028 Balancing a Complete Signed Graph by Editing Edges and Deleting Nodes Bang Ye Wu and Jia-Fen Chen 1095 A New Filtration Method and a Hybrid Strategy for Approximate String Matching Chia-Wei Lu, Chin-Lung Lu, and R. C. T. Lee 1134 A Novel Approximation Algorithm for Minimum Geometric Disk Cover Problem with **Hexagon Tessellation** Chi-Chang Chen, Chi-Yu Chang, and Cheng-Chun Liu 1053 Protein Structure Comparison and Visualization Tools on Cloud Platform Yaw-Ling Lin, Chen-En Hsieh, Guan-Jie Hua, and Che-Lun Hung

Session: Interconnection Networks and Combinatorial Algorithms (2:45~4:15 pm)

Chair: **Prof. Y-Chuang Chen**, Minghsin University of Science and Technology

1080 Ranking and Unranking Algorithms for Loopless Generation of Non-Regular Trees

	Ro-Yu Wu, Jou-Ming Chang, An-Hang Chen, and Ming-Tat Ko
1081	Completely Independent Spanning Trees on Complete Graphs, Complete Bipartite Graphs and
	Complete Tripartite Graphs
	Kung-Jui Pai, Shyue-Ming Tang, Jou-Ming Chang, and Jinn Shyong Yang
1046	On the Min-Max 2-Cluster Editing Problem
	Li-Hsuan Chen, Maw-Shang Chang, Chun-Chieh Wang, and Bang Ye Wu
1127	Spatial Query Processing on Distributed Databases
	Jiun-Wen Bai, Jun-Zhe Wang, and Jiun-Long Huang
1027	Internally Disjoint Paths in a Variant of the Hypercube
	Tsung-Han Tsai, Y-Chuang Chen, and Jimmy J.M. Tan