

Workshop on Mobile Computing, Wireless Communications, and Vehicular Technologies

Date: Friday, 14 Dec. 2012

Room: 3F 305.306.307

Session: Wireless Sensor Networks (09:30~11:30 am)

Chair: **Prof. Jen-Yeu Chen**, National Dong Hwa University

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, Shaihuey Wang, Bor-Shing Lin, Tong-Ying Juang, and Xiao-Ru Ji

1039 A Zone-Based Localization Scheme for Wireless Sensor Networks with Bilateralation

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)

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
- 1121 A Cluster-based Link Recovery Mechanism for Spectrum Aware
On-demand Routing in 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*