

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

- 1041 A Study of Real-Time Hand Gesture Recognition Using Sift on Binary Images
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
- 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

- 1105 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
- 1015 Protection of Privacy-sensitive Contents in Surveillance Videos Using

WebM Video Features

Hsin-Hsiang Tseng and Wen-Hsiang Tsai

1186 A High Performance Parallel Graph Cut Optimization for Depth Estimation

Bo-Yen Chen and Bo-Cheng Charles Lai

1155 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

1047 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

1050 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

1070 Optimal GOP Size of H.264/AVC Temporal Scalable Coding

Wei-Lune Tang and Shih-Hsuan Yang