

# Journal of Image and Graphics

## CONTENTS

---

---

### Volume 3, Number 1, June 2015

#### Pattern Recognition

A Comparison of South East Asian Face Emotion Classification Based on Optimized Ellipse Data Using Clustering Technique ..... 1

*K. Muthukaruppan, S. Thirugnanam, R. Nagarajan, M. Rizon, S. Yaacob, M. Muthukumaran, and T. Ramachandran*

Face Recognition Using String Grammar Nearest Neighbor Technique ..... 6

*P. Kasemsumran, S. Auephanwiriyakul, and N. Theera-Umpon*

Multi-Layer Framed Offline Signature Recognition Algorithm ..... 11

*W. U. Wickramaarachchi and S. Vasanthapriyan*

The Study of Gesture Recognition Based on SVM with LBP and PCA..... 16

*Jingzhong Wang, Xiaoqing Xu, and Meng Li*

#### Visual and Image Detection

Applying the Video Summarization Algorithm to Surveillance Systems ..... 20

*Yi-Nung Chung, Tun-Chang Lu, Ming-Tsung Yeh, Yu-Xian Huang, and Chun-Yi Wu*

Ultra-Low Bit Rate Facial Coding Hybrid Model Based on Saliency Detection ..... 25

*Wei Zeng, Mingqiang Yang, and Zhenxing Cui*

Algorithm of 3D Spatial Coordinates Measurement Using a Camera Image ..... 30

*Hyeon Min Lee and Woo Chun Choi*

#### Medical Image Processing

CE Video Summarization Using Relational Motion Histogram Descriptor ..... 34

*Mohamed Maher Ben Ismail and Ouiem Bchir*

Image Quality Improvement in Kidney Stone Detection on Computed Tomography Images ..... 40

*Saman Ebrahimi and Vladimir Y. Mariano*

Segmentation of Breast Thermogram Images for the Detection of Breast Cancer – A Projection Profile Approach ... 47

*Dayakshini, Surekha Kamath, Keerthana Prasad, and K. V. Rajagopal*

#### Image Analysis

Enhanced Depth Features of Human Bodies for Image Retargeting ..... 52

*Jen-Jung Cheng, Chin-Chen Chang, and Huei-Yung Lin*

Self-Estimation of the Number of Endmembers for Hyperspectral Mixture Analysis ..... 56

*Ouiem Bchir*

#### Filter and Image Processing Tools

Design of Multilayer Optical Filters Using the Fourier Transform Approach ..... 60

*Ali Jebelli, Balbir S. Dhillon, and S. Hossein Kazemi*

An Object-Based Tool for Wavelet Thresholding to Reduce Speckle Noise ..... 65

*Murat A. Gungor and Irfan Karagoz*