

# Journal of Image and Graphics

## CONTENTS

---

---

### Volume 4, Number 2, December 2016

#### Image Processing

Despeckling the 2D Medical Ultrasound Image through Individual Despeckling of the Envelopes of Its 1D Radio Frequency Echo Lines by STFT .....67

*Jawad F. Al-Asad*

A New Synthetical Method of Feature Enhancement and Detection for SAR Image Targets.....73

*Shiqi Huang, Yiting Wang, and Peifeng Su*

A New Encoding of Iris Images Employing Eight Quantization Levels .....78

*Oktay Koç and Arban Uka*

Feature Based Face Detection in HRI.....84

*Nibedita Mishra, Bunil Kumar Balabantaray, Omprakash Sahu, and Bibhuti Bhusan Biswal*

A Computer Method for Generating 3D Point Cloud from 2D Digital Image .....89

*Nur Ilham Aminullah Abdulqawi and Mohd Salman Abu Mansor*

Improving Leaf Classification Rate via Background Removal and ROI Extraction .....93

*Yen-Ju Wu, Chun-Ming Tsai, and Frank Shih*

#### Medical Image Processing

Detection and Quantification of Neuron's Cellular Bodies in *C. elegans*.....99

*Jorge M. Santos and Daniel Dias*

A 3-D Non-Rigid Warping Method Based on Free Formed Deformation for Temporal Subtraction on Thoracic MDCT Images ..... 105

*Yuriko Yoshino, Takumi Tokisa, Hyoungseop Kim, Takatoshi Aoki, and Shoji Kido*

Empirical Mode Decomposition on T-Wave Alternans Detection..... 110

*Muhammad Latif, Asim D. Bakhshi, Usman Ali, and Raees A. Siddiqui*

Stress Recognition from Heterogeneous Data ..... 116

*Bo Zhang, Yann Morère, Loïc Sieler, Cécile Langlet, Benoît Bolmont, and Guy Bourhis*

Computer-Aided Model for Skin Diagnosis Using Deep Learning ..... 122

*Doaa A. Shoieb, Sherin M. Youssef, and Walid M. Aly*

#### Signal Recognition

A Class Identification Method Using Freeman's Olfactory KIII Model..... 130

*Masanao Obayashi, Ryohei Suda, Takashi Kuremoto, and Shingo Mabu*

Parkinson's Disease Tremor Characteristic Identification: An Experimental Study..... 136

*Muhammad Hafiz Soad, Mohd Zarhamdy Md. Zain, Mohamed Hussein, and Maziah Mohamad*

#### Signal Processing

The NLOS Localization Algorithm Based on the Linear Regression Model of Extended Kalman Filter ..... 141

*Nan Hu, Chengdong Wu, Li Chen, and Hao Wu*

**Multimedia Devices**

Morphology-Based Sensor Pattern Noise Extraction for Device Identification ..... 145  
*Hae-Yeoun Lee*

A Review on Digital Image Watermarking and Its Techniques ..... 150  
*Rajiv Vasudev*