

ISSN Print: 2074-9074, ISSN Online: 2074-9082  
Volume 2, Number 2, December 2010

International Journal of

# Image, Graphics and Signal Processing

**Vol.2**

No.2 Dec. 2010

**IJIGSP** *Vol.2*

[Http:// www.mecs-press.org](http://www.mecs-press.org)

Vol. 2 No.2 December 2010



## **Contents**

---

### REGULAR PAPERS

Matrix-based Kernel Method for Large-scale Data Set	1
<i>Weiya Shi</i>	
A New Adder Theory Based on Half Adder and Implementation in COMS Gates	11
<i>Zhanfeng Zhang, Liyuan Sheng, Wenming Jiang, Shuai Tong, Hua Cao</i>	
A Quantitative Directional Relations Model Considering Topology and Distance	18
<i>Xuehua Tang</i>	
Leaf Vein Extraction Based on Gray-scale Morphology	25
<i>Xiaodong Zheng, Xiaojie Wang</i>	
An Improved Local Equilibrium Contrast Enhancement Algorithm for Infrared Laser Images	32
<i>Yuhong Li, Jianzhong Zhou, Wei Ding, Shan Ding</i>	
Improved Cryptanalysis of CMC Chaotic Image Encryption Scheme	39
<i>Jiansheng Guo, Lei Zhang</i>	
A NEW DISTORTION MEASURE FOR PARAMETER QUANTIZATION BASED ON MELP	46
<i>Ye Li, Jingde Xu, Qinghua Li, Huijuan Cui, Kun Tang</i>	
Extraction and Analysis of Mural Diseases Information Based on Digital Orthophoto Map	53
<i>Miao-le Hou, Song Tian</i>	

---