

# Contents

<b>1</b>	<b>Spherical Mirror Estimation Using Phase Retrieval Wavefront Sensor Technology</b> . . . . .	<b>1</b>
	Xinxue Ma, Jianli Wang, Bin Wang and Tianyu Lv	
<b>2</b>	<b>Combined Utility and Adaptive Residence Time-Based Network Selection for 4G Wireless Networks.</b> . . . .	<b>11</b>
	J. Shankar, C. Amali and B. Ramachandran	
<b>3</b>	<b>Three-Dimensional Compressed Sensing Imaging Using Phase-Shift Laser Range Finding.</b> . . . .	<b>25</b>
	Bingbing Guo, Ping Wei and Jun Ke	
<b>4</b>	<b>Gabor Orientation Histogram for Face Representation and Recognition</b> . . . . .	<b>35</b>
	Jun Yi and Fei Su	
<b>5</b>	<b>A Simplify Linear Multi-User Detection</b> . . . . .	<b>45</b>
	Bingchao Liu, Jingjing Liang, Li Fang and Daoben Li	
<b>6</b>	<b>Automatic Mosaic Method of UAV Water-Area Images Based on POS Data</b> . . . . .	<b>53</b>
	Yaping Wang, Yijin Chen and Donghai Xie	
<b>7</b>	<b>Video Copy-Move Forgery Detection and Localization Based on Structural Similarity</b> . . . . .	<b>63</b>
	Fugui Li and Tianqiang Huang	
<b>8</b>	<b>Underdetermined Blind Recovery of Communication Signals Based on Minimum Euclidean Distance in Time-Frequency Domain</b> . . . . .	<b>77</b>
	Zhaoyang Peng and Wenli Jiang	

<b>9</b>	<b>Analysis of Anisotropic Scattering of Aircraft Engine Blades in Micro-Doppler Signature . . . . .</b>	<b>87</b>
	W. C. Zhang, B. Yuan and Z. P. Chen	
<b>10</b>	<b>A Distributed Detection Scheme Based on Adaptive CUSUM and Weighted CAT Against DDoS Attacks . . . . .</b>	<b>97</b>
	Zaihong Zhou, Xi Chen, Jiang Wang and Xueqiang Li	
<b>11</b>	<b>A Research on Speech Enhancement Based on Hybrid Parallel Subbands HMM and Neural Network Model. . . . .</b>	<b>107</b>
	Zhao lv, Li Ni, Shiyu Chen and Xiaopei Wu	
<b>12</b>	<b>Surface Texture Detection of Double-Feature Apple Based on Computer Vision . . . . .</b>	<b>117</b>
	Hui Guo, Yuzhi Tan and Wei Li	
<b>13</b>	<b>A Fast Search Algorithm of Multi-View Video Coding. . . . .</b>	<b>129</b>
	Mei-leng Yuan and Yang Zhang	
<b>14</b>	<b>A New Texture Direction Feature Descriptor and Its Application in Content-Based Image Retrieval. . . . .</b>	<b>143</b>
	Yu Xia, Shouhong Wan and Lihua Yue	
<b>15</b>	<b>An Efficient Fast CU Depth and PU Mode Decision Algorithm for HEVC . . . . .</b>	<b>153</b>
	Zong-Yi Chen, He-Yan Chen and Pao-Chi Chang	
<b>16</b>	<b>Digital Audio Watermarking Technique Exploiting the Properties of the Psychoacoustic Model 2 of the MPEG Standard . . . . .</b>	<b>165</b>
	Maha Bellaaj and Kais Ouni	
<b>17</b>	<b>A Wargame Data Visualization Algorithm Based on Regular Radius and Constrained Random Direction. . . . .</b>	<b>175</b>
	Xiangli Xu, Xiaofeng Hu and Xiaoyuan He	
<b>18</b>	<b>Analysis of Different Information Dissemination Ways for Disaster Prewarning: A Case Study of Beijing. . . . .</b>	<b>183</b>
	Nan Zhang, Hong Huang, Boni Su and Bo Zhang	
<b>19</b>	<b>Human Detection with EOH-OLBP-Based Multi-Level Features. . . . .</b>	<b>193</b>
	Yingdong Ma and Liang Deng	

<b>20</b>	<b>A Gray Model Application Method for H.264/AVC Intra Prediction Coding</b> . . . . .	<b>205</b>
	Ruifang Hu, Ju Liu, Hui Yuan, Chuan Ge and Wei Liu	
<b>21</b>	<b>The Research of SVR Algorithms Based on Several Loss Functions and the Application in Exchange Rate Prediction.</b> . . . .	<b>215</b>
	Fuyong Wan and Lijing Shen	
<b>22</b>	<b>Design of 2 MHz CMOS <math>G_m</math>-C Complex BPF with Automatic Tuning for WSN Node</b> . . . . .	<b>227</b>
	Lingjie Meng and Zhiqun Li	
<b>23</b>	<b>Real-Time Quality Monitoring for Networked H.264/AVC Video Streaming.</b> . . . .	<b>237</b>
	Jiarun Song and Fuzheng Yang	
<b>24</b>	<b>A Hierarchical Registration Method of the Chang'E-1 Stereo Images</b> . . . . .	<b>247</b>
	Mengjie Ye and Jing Huang	
<b>25</b>	<b>Efficient Adaptive Window Matching Algorithm Based on Cross Search</b> . . . . .	<b>257</b>
	Qian Liang, Yingyun Yang and Bo Liu	
<b>26</b>	<b>Super-Resolution Reconstruction for Mixed Resolution Videos Using Key Frames and Adaptive Detail Warping.</b> . . . .	<b>267</b>
	Yun-Jhen Chen, Jin-Jang Leou and Han-Hui Hsiao	
<b>27</b>	<b>Segmentation Based on Spiking Neural Network Using Color Edge Gradient for Extraction of Corridor Floor</b> . . . . .	<b>275</b>
	XiaoWei Wang, QingXiang Wu, Zhenming Zhang, Zhiqiang Zhuo and Liuping Huang	
<b>28</b>	<b>Interactive Scene Text Detection on Mobile Devices.</b> . . . .	<b>287</b>
	Jinlong Hu, Baihua Xiao, Chunheng Wang, Cunzhao Shi and Song Gao	
<b>29</b>	<b>A New Edge Detection Algorithm Using FFT Procedure</b> . . . . .	<b>297</b>
	Tongfeng Yang, Jun Ma, Shaomang Huang and Qian Zhao	
<b>30</b>	<b>A Novel Error Concealment Method Based on Adaptive Ordering of Block Match</b> . . . . .	<b>305</b>
	Fan Zhou, Weiwei Xu and Yaowu Chen	

<b>31</b>	<b>Template Selection for Lookup Table Based on Genetic Algorithm</b> . . . . .	<b>315</b>
	Zhiqiang Wen, Wenqiu Zhu and Zhigao Zeng	
<b>32</b>	<b>Color Preserved Image Compositing</b> . . . . .	<b>325</b>
	Hao Wu and Dan Xu	
<b>33</b>	<b>A Novel Detection Algorithm of Double MP3 Compression</b> . . . . .	<b>335</b>
	Pengfei Ma, Rangding Wang, Diquan Yan and Chao Jin	
<b>34</b>	<b>A Genre-Independent Chord Transcription System from Audio Using GMM-Based HMMs</b> . . . . .	<b>343</b>
	Hao Wu, Dan Su, Yifang Wang and Xihong Wu	
<b>35</b>	<b>Multiclass Color-Texture Image Segmentation Based on Random Walks Framework Integrating Compact Texture Information</b> . . . . .	<b>357</b>
	Chanchan Qin, Guoping Zhang, Guoqing Li, Liu Chen and Jing Ge	
<b>36</b>	<b>Statistical Modeling of Speech Spectra in the Fan-Chirp Transform Domain</b> . . . . .	<b>365</b>
	Sichen Zheng, Hongwei Wu, Qingyuan Xu and Yibiao Yu	
<b>37</b>	<b>Multiphase Image Segmentation from a Statistical Framework</b> . . . . .	<b>377</b>
	Jiangxiong Fang, Huaxiang Liu, Juzhi Deng, Yulin Gong, Haning Xu and Jun Liu	
<b>38</b>	<b>A Hierarchical Feature Extraction Scheme with Special Vocabulary Generation for Natural Scene Classification</b> . . . . .	<b>387</b>
	Tian Luo, Zhuo Su and Xiaonan Luo	
<b>39</b>	<b>Intuitive Game Design for Early Learning in Music</b> . . . . .	<b>395</b>
	Szu-Ming Chung and Chun-Tsai Wu	
<b>40</b>	<b>Human Action Recognition with Block-Based Model and Flow Histograms</b> . . . . .	<b>407</b>
	Jincai Song and Fuqiao Hu	