

Contents – Part III

Pan-Sharpening via Coupled Unitary Dictionary Learning	1
<i>Shumiao Chen, Liang Xiao, Zhihui Wei, and Wei Huang</i>	
Partial Differential Equation Inpainting Method Based on Image Characteristics	11
<i>Fang Zhang, Ying Chen, Zhitao Xiao, Lei Geng, Jun Wu, Tiejun Feng, Ping Liu, Yufei Tan, and Jinjiang Wang</i>	
Patch-Based Visual Tracking with Two-Stage Multiple Kernel Learning	20
<i>Heng Fan and Jinhai Xiang</i>	
Pattern Classification for Dermoscopic Images Based on Structure Textons and Bag-of-Features Model	34
<i>Yang Li, Fengying Xie, Zhiguo Jiang, and Rusong Meng</i>	
Performance-Driven Facial Expression Real-Time Animation Generation	46
<i>Zhang Mandun, Huo Jianglei, Na Shenruoyang, and Huang Chunmeng</i>	
Person Re-identification with Density-Distance Unsupervised Salience Learning	55
<i>Baoliang Zhou, Aihua Zheng, Bo Jiang, Chenglong Li, and Jin Tang</i>	
Phase Unwrapping Method Based on Heterodyne Three Frequency Non-equal Step Phase Shift	68
<i>Lei Geng, Yang Liu, Zhitao Xiao, Jun Wu, Yang Zhang, Fei Yuan, Zhenjie Yang, Peng Gan, Jingjing Su, and Kun Ye</i>	
Photon Shooting with Programmable Scalar Contribution Function	80
<i>Quan Zheng and Changwen Zheng</i>	
Real-Time Locating Method for Palmvein Image Acquisition	94
<i>Yaqin Liu, Yujia Zhou, Shirong Qiu, Jirui Qin, and Yixiao Nie</i>	
Real-Time Panoramic Image Mosaic via Harris Corner Detection on FPGA	111
<i>Lu Chen, Jing Han, Yi Zhang, and Lian-fa Bai</i>	
Real-Time Robust Video Stabilization Based on Empirical Mode Decomposition and Multiple Evaluation Criteria	125
<i>Jun Yu, Chang-wei Luo, Chen Jiang, Rui Li, Ling-yan Li, and Zeng-fu Wang</i>	

Real-Time Underwater Image Contrast Enhancement Through Guided Filtering.	137
<i>Huimin Lu, Yujie Li, Xuelong Hu, Shiyuan Yang, and Seiichi Serikawa</i>	
Recent Progress of Structural Variations Detection Algorithms Based on Next-Generation Sequencing: A Survey.	148
<i>Zhen-Le Wei</i>	
Recognition of In-air Handwritten Chinese Character Based on Leap Motion Controller	160
<i>Ning Xu, Weiqiang Wang, and Xiwen Qu</i>	
Relations Between Minkowski-Reduced Basis and θ -orthogonal Basis of Lattice	169
<i>Yuyun Chen, Gengran Hu, Renzhang Liu, Yanbin Pan, and Shikui Shang</i>	
Research on Image Quality Assessment in Foggy Conditions	180
<i>Wenjun Lu, Congli Li, Xiaoning Sun, and Song Xue</i>	
Research on Vehicle Type Classification Based on Spatial Pyramid Representation and BP Neural Network	188
<i>Shaoyue Song and Zhenjiang Miao</i>	
RGB-D Sensors Calibration for Service Robots SLAM	197
<i>Yue Sun, Jingtai Liu, and Lei Sun</i>	
Road Detection Based on Image Boundary Prior.	212
<i>Huan Wang, Yan Gong, Yangyang Hou, and Ting Cao</i>	
Robust and Real-Time Lane Marking Detection for Embedded System	223
<i>Yueting Guo, Yongjun Zhang, Sha Liu, Jun Liu, and Yong Zhao</i>	
Robust Contour Tracking via Constrained Separate Tracking of Location and Shape	236
<i>Huijun Di, Linmi Tao, and Guangyou Xu</i>	
Robust Face Hallucination via Similarity Selection and Representation	247
<i>Feng Liu, Ruoxuan Yin, Zongliang Gan, Changhong Chen, and Guijin Tang</i>	
Robust Face Recognition with Locality-Sensitive Sparsity and Group Sparsity Constraints.	260
<i>Xi Sun, Wentao Chan, and Lei Qu</i>	
Robust Salient Object Detection and Segmentation	271
<i>Hong Li, Wen Wu, and Enhua Wu</i>	
Rough Lane Marking Locating Based on Adaboost.	285
<i>Wuwen Jin and Mingwu Ren</i>	

S-box: L-L Cascade Chaotic Map and Line Map.	297
<i>Ye Tian and Zhimao Lu</i>	
Scene Character and Text Recognition: The State-of-the-Art.	310
<i>Chongmu Chen, Da-Han Wang, and Hanzi Wang</i>	
Segmentation of Intra-retinal Layers in 3D Optic Nerve Head Images	321
<i>Chuang Wang, Yaxing Wang, Djibril Kaba, Haogang Zhu, You Lv, Zidong Wang, Xiaohui Liu, and Yongmin Li</i>	
Simple, Accurate, and Robust Nonparametric Blind Super-Resolution	333
<i>Wen-Ze Shao and Michael Elad</i>	
Simulation of Interaction Between Fluid and Deformable Bodies	349
<i>Ka-Hou Chan, Wen Wu, and Wei Ke</i>	
Single Image Dehazing Based on Visual-Physical Model	360
<i>Wang Lin, Bi Du-Yan, Li Quan-He, and He Lin-Yuan</i>	
Single Image Super Resolution Algorithm with a New Dictionary Learning Technique K-Eigen Decomposition	369
<i>Yingyue Zhou, Hongbin Zang, Su Xu, and Hongying Zhang</i>	
Single Remote Sensing Image Haze Removal Based on Spatial and Spectral Self-Adaptive Model	382
<i>Quan Yuan, Huanfeng Shen, and Huifang Li</i>	
Small Infrared Target Detection Based on Low-Rank Representation.	393
<i>Min Li, Yu-Jie He, and JinLi Zhang</i>	
Sophisticated Tracking Framework with Combined Detector.	402
<i>Gwangmin Choe, Tianjiang Wang, Qi Feng, Chunhwa Choe, Sokmin Han, and Hun Kim</i>	
Sparse Representation-Based Deformation Model for Atlas-Based Segmentation of Liver CT Images.	410
<i>Changfa Shi, Jinke Wang, and Yuanzhi Cheng</i>	
Survey of Astronomical Image Processing Methods.	420
<i>Hai Jing Zhu, Bo Chong Han, and Bo Qiu</i>	
Synthesis of High Dynamic Range Image Based on Logarithm Intensity Mapping Function.	430
<i>Shaojun Zhang, Sheng Zhang, Hailong Cheng, and Chuan Jiang</i>	
Temporal Domain Group Sparse Representation Based Cloud Removal for Remote Sensing Images	444
<i>Xinghua Li, Huanfeng Shen, Huifang Li, and Qiangqiang Yuan</i>	

Text to Head Motion Synthesis for Chinese Sign Language Avatar	453
<i>Wenjing He, Junfa Liu, and Yiqiang Chen</i>	
The Real-Time Vision System for Fabric Defect Detection with Combined Approach	460
<i>Pengfei Li, Zhuo Zhao, Lei Zhang, Hongwei Zhang, and Junfeng Jing</i>	
The Research of Long Time Occlusion Problem Based on Object Permanence	474
<i>Xiang-Dan Hou and Ming-Jing Zhang</i>	
The Segmentation Interventricular Septum from MR Images.	483
<i>Qian Zheng, Zhentai Lu, Minghui Zhang, Shengli Song, Huan Ma, Lujuan Deng, Zhifeng Zhang, Qianjin Feng, and Wufan Chen</i>	
Two-Stage Learning to Robust Visual Track via CNNs	491
<i>Dan Hu, Xingshe Zhou, Xiaohao Yu, and Zhiqiang Hou</i>	
Undersampled Dynamic MRI Reconstruction by Double Sparse Spatiotemporal Dictionary	499
<i>Juerong Wu, Dongxiao Li, Xiaotian Qiao, Lianghao Wang, and Ming Zhang</i>	
Underwater Image Devignetting and Colour Correction	510
<i>Yujie Li, Huimin Lu, and Seiichi Serikawa</i>	
Video Based Face Tracking and Animation	522
<i>Changwei Luo, Jun Yu, Zhigang Zheng, Bin Cai, Lingyun Yu, and Zengfu Wang</i>	
Video Stabilization via Piecewise Linear L1 Optimization for Airship Earth Observation	534
<i>Xiaozhou Xu, Jing Yu, and Weidong Sun</i>	
Special Topic: Edutainment and Application	
Automated Procedural Generation of Urban Environments Using Open Data for City Visualisation.	545
<i>David Tully, Abdennour El Rhalibi, Zhigeng Pan, Christopher Carter, and Sud Sudirman</i>	
Nonlocal and Nonlinear Model in Image Editing Technique	552
<i>Yanxia Bao, Yang Shen, and Xinting Wang</i>	
Mesh Extraction from a Regular Grid Structure Using Adjacency Matrix	562
<i>David Tully, Abdennour El Rhalibi, Zhigeng Pan, Christopher Carter, and Sud Sudirman</i>	

Investigation on the Influence of Visual Attention on Image Memorability . . .	573
<i>Wulin Wang, Jiande Sun, Jing Li, Qiang Wu, and Ju Liu</i>	
Predicting and Visualising City Noise Levels to Support Tinnitus Sufferers. . .	583
<i>William Hurst, Graham Davis, Abdennour El Rhalibi, David Tully, and Zhigeng Pan</i>	
Heart-Creates-Worlds: An Aesthetic Driven Fitness Training System	599
<i>Lizhen Han, Mingmin Zhang, Feng Tian, and Xinting Wang</i>	
Author Index	609

Image and Graphics

8th International Conference, ICIG 2015, Tianjin, China,

August 13-16, 2015, Proceedings, Part III

Zhang, Y.-J. (Ed.)

2015, XXX, 615 p. 350 illus., 244 illus. in color.,

Softcover

ISBN: 978-3-319-21968-4