

# Table of Contents

Preface	v
Organizing Committees	vii
An Algorithm for Accurate Face Detection in Complex Background and Illumination <i>Lihua Huang , Pingan Mu, Shuguang Dai and Qichang Li</i>	1
Application of EOF and Cao Method to the Research on Decadal Variability of ENSO Predictability <i>PENG Yue-hua, DUAN Zheng-yu, ZHOU Bo and ZHU Zuo-xin</i>	6
Design of an Adaptive Line Enhancer Using a RGR-RLS Algorithm <i>FAN Jin, YUAN Hong and LIN Fei-yu</i>	11
Adaptive Array Filter Using a Combined QLMS-CLMS Algorithm <i>Zhiyong Lin, Jianwu Tao and Fei Yu</i>	17
A Compressive Sensing Photoacoustic Imaging System Based on Digital Micromirror Device <i>Naizhang Feng, Mingjian Sun and Liyong Ma</i>	23
Enhanced DOA Tracking Based on the PASTd Algorithm with Outlier Rejection <i>Wenyan Liu and Xiaotao Huang</i>	29
Algorithm Research of Moving Vehicle Detection and Vehicle Flow Statistical Based on Machine Vision <i>Jin Song, Miao Changyun and Shen Zhenqian</i>	37
Application of HHT for Aerodynamic Instability Signal Analysis in Compressor <i>Li Changzheng and Xiong Bing</i>	43
Bi-directional Motion Compensated Reconstruction for Pixel Domain Distributed Video Coding <i>Chunling Yang, Zhuohan Su and Lin Lee</i>	48
Micro-Doppler Simulation Modeling and Analysis of the Ship <i>Huang Mengjun and Fu Qiang</i>	54
A Survey on Compressed Sensing Based Banknote Classification <i>Sun Nan, Pan Xiaowei, Ma Chun and Cheng Taojun</i>	60
A Real-time Photoacoustic Imaging System with High Density Integrated Circuit <i>Naizhang Feng, Mingjian Sun and Liyong Ma</i>	67
Discriminate the Decoy and Target Using Frequency Profile Modeling in the Radar Terminal Guidance	73

*SONG Zhi-yong, XIAO Huai-tie, ZHU Yi-long and LU Zai-qi*

Three-dimensional Radar Imaging Based on Sparse Measurements	80
<i>Zou Xin, Zhou Jianxiong and Fu Qiang</i>	
Principle and Application of Dendritic Cell Algorithm for Intrusion Detection	85
<i>Xufei Zheng and Yonghui Fang</i>	
A Digital Signal Processing System of Biphase Coded QCW Radar Based on FPGA	92
<i>Hongwei Zhao, Wenjie Gao and Qi Zhang</i>	
The Cooperative Diversity-Based on the OFDM Modulative System	100
<i>Zu-Jue Chen and Fu-Chun Huang</i>	
A Efficient Multidimensional Real-Time Image Signal Processing Method for Mobile Communications	105
<i>Ye LIANG</i>	
Automatic ROI Extraction in Casting Flaw Detection	111
<i>Xiao Dong and Qian Huang</i>	
Intelligent Voice Convergence Solutions for Emergency Communications	116
<i>Fanlei Gong, Guojun Bo, Jizheng Chu and Qi Wang</i>	
Full-spectrum Combining Technique and Its Experiments with Chinese Very Long Baseline Interferometry Network	121
<i>Wu Jiang and Fengchun Shu</i>	
Multi-modal Image Matching Method Based on Optimized Wavelet Transform Modular Maximum and DAISY Descriptor	128
<i>Zhenbing Zhao, Sasa Wang, Ping Yu and Qin Wang</i>	
Display of Virtual Hand and Establishment of Behavior Databases Based on 3dsMax and OpenGL	132
<i>Xu Chao, Li Yunlong, Zhou Dongxiang and Cai Xuanping</i>	
Modeling and Simulation of Correlated K-Distributed Sea Clutter Based on ZMNL	139
<i>Li Yunlong, Xu Chao, Zhao Hongzhong and Fu Qiang</i>	
Side-lobe Suppression Methods for Polyphase Codes	144
<i>Guanglei Wei, Yibin Rui and Zhiyun Zeng</i>	
High Range Resolution Radar Imaging from Partial and Non-uniform Frequency Measurements	151
<i>Hu Lei, Zhou Jianxiong, Shi Zhiguang and Fu Qiang</i>	
Electromagnetic Feature Extraction of Complex Targets from Measured High Resolution SAR Imagery	158
<i>Jingke Zhang, Kefeng Ji, Xiangwei Xing and Huanxin Zou</i>	

Study on E-commerce Information Security Technology	164
<i>Yang Huaqing , Ling Haiyun and Yang Wenwen</i>	
A Cross Traffic Estimate Method for High Speed Networks	170
<i>Niu Dawei, Mi Zhichao, Yu Weibo, Zhao Wendong and Wang Hai</i>	
Assessment Algorithm for Service Matching Based on Bloom Filter	178
<i>Wendong Zhao, Jin Zhang, Laixian Peng, Dawei Niu and Jingnan Nie</i>	
Author Index	185