

IET International Radar Conference 2015

IET Conference Publications 677

Hangzhou, China
14 – 16 October 2015

Volume 1 of 3

ISBN: 978-1-5108-2202-3

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2015) by the Institution of Engineering and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the Institution of Engineering and Technology
at the address below.

Institution of Engineering and Technology
P. O. Box 96
Stevenage, Hertfordshire
U.K. SG1 2SD

Phone: 01-441-438-767-328-328
Fax: 01-441-438-767-328-375

www.theiet.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

VOLUME 1

MULTIFRACTAL SPECTRUM FEATURES BASED CLASSIFICATION METHOD FOR AIRCRAFT	1
<i>Qiusheng Li, Weixin Xie, Jingxiang Huang</i>	
THE APPLICATION OF SVD-BASED SPECKLE REDUCTION AND TOPHAT TRANSFORM IN PREPROCESSING OF SHIP DETECTION	7
<i>Jiaqiu Ai</i>	
AN IMPROVED OMP METHOD BASED ON MEMORY EFFECT AND ITS APPLICATION	11
<i>Yu Li, Chenchen Lin, Puming Huang</i>	
STUDY TO IMPROVE THE LANDFORM ADAPTABILITY OF RADAR SUPER-RESOLUTION ALGORITHM	16
<i>Xu Haili, Liu Bingqi</i>	
A FAST STEPPED-FREQUENCY CHIRP RADAR IMAGING METHOD BASED ON NUFFT	20
<i>Kai Zhang, Cheng Hu, Changjiang Liu, Yin Xiang</i>	
DESIGN AND IMPLEMENTATION OF MATRIX TRANSPOSE BASED ON SMP SYSTEM	25
<i>Ke Lei, Ge Wei</i>	
A NOVEL METHOD FOR ESTIMATING POLARIZATION PARAMETERS BASED ON SPC OF ANTENNA	30
<i>Cui Jianling, Dai Huanyao, Kong Depei, Liu Wenzhao, Zhou Bo</i>	
OPEN ENDED DIELECTRIC FILLED SLOT BLADE ANTENNA DESIGN WITH COAXIAL FEED FOR AIRBORNE APPLICATIONS	34
<i>T. Rahim, A. Wahab, Jiadong Xu</i>	
DIRECT SIGNAL RECOVERY AND MASKING EFFECT REMOVAL EXPLOITING SPARSITY FOR PASSIVE BISTATIC RADAR	37
<i>F. Wang</i>	
A NOVEL STAP ALGORITHM BASED ON AZIMUTH-ELEVATION SPECTRUM OF CLUTTER	43
<i>W. K. Feng, Y. S. Zhang, X. Y. He</i>	
SINE TRACKING MODEL OF HYPERSONIC TARGET IN NEAR SPACE BASED ON RADAR DETECTING	48
<i>Liu Yuan, Zhang Xiangyu, Yang Zhong, He Dachao, Dai Shuliang</i>	
MANMADE TARGET EXTRACTION IN POLSAR DATA USING POLARIMETRIC COHERENCE OPTIMIZATION	52
<i>Si-Wei Chen, Yong-Zhen Li, Xue-Song Wang, Shun-Ping Xiao</i>	
ARRANGMENT OF T/R MODULES FOF ACTIVE ARRAY RADAR WITH RANDOM ARRAY THEORY	56
<i>Wang Luoshengbin, X. Z. Henhai, Xiong Ziyuan</i>	
ANTENNA BEAM-NULL ARRANGEMENT BASED ON TIME-DIRECTION PATTERN BY KNOWLEDGE-AIDED METHOD	61
<i>Rong Shi, Wei Zhang, Zhou Li</i>	
NOISE SUPPRESSED ALGORITHM BASED ON NONSCANNING LASER IMAGING RADAR	66
<i>Chen Da-Ke, Li Zhi, Li Hai-Yang</i>	
AN IMPROVED ADAPTIVE MONOPULSE ESTIMATION ALGORITHM BASED ON A MODIFIED SUBSPACE TRACKING TECHNIQUE	72
<i>Jia Yu, Mingwei Shen, Di Wu, Daiyin Zhu</i>	
A NEW ROBUST BEAMFORMING APPROACH IN A COHERENT SIGNAL ENVIRONMENT	78
<i>Yasen Wang, Qinglong Bao, Zengping Chen</i>	
OFF-GRID EFFECT FREE IMAGING METHOD BASED ON IMPROVED OMP APPROACH FOR DLLA 3D SAR	84
<i>Bao Qian, Hong Wen, Han Kuoye, Wang Yanping, Lin Yun, Tan Weixian</i>	
THE DISTINGUISHABLE ELLIPSE RESOLUTION ANALYSIS AND CO-OPTIMIZATION IN SQUINTED SARs	88
<i>Jie Long, Congxin Li, Chao Jiang, Jun Zhao</i>	
ADAPTIVE SUPPRESSION OF AZIMUTH AMBIGUITIES FOR MULTICHANNEL SAR WIDE-SWATH IMAGING	93
<i>Mingwei Shen, Liu Yang, Di Wu, Daiyin Zhu</i>	
TWO-DIMENSIONAL MIMO-ISAR IMAGING BASED ON SPACE-TIME PROCESSING	98
<i>Jianchao Yang, Weimin Su, Hong Gu</i>	

REDUCING THE IONOSPHERIC DISPERSION FOR P-BAND SPACEBORNE SAR IMAGES BY STOCHASTIC PARALLEL GRADIENT DESCENT ALGORITHM	104
<i>Shi Jing-Jing, Yao Bo-Dong, Wu Xian-Liang</i>	
DETECTION AND ESTIMATION OF MULTIPLE GROUND MOVING TARGETS BY SEGMENTATION IN SAR	110
<i>Zhirui Wang, Jia Xu, Zuzhen Huang, Xudong Zhang</i>	
RESEARCH ON BASE-LINE SELECTING OF DISTRIBUTED APERTURE COHERENCE-SYNTHETIC RADAR	117
<i>Gao Hong-Wei, Jin Zhen, Zhou Bao-Liang, Zhou Dong-Ming</i>	
NOVEL NOISE JAMMING METHOD AGAINST ISAR	121
<i>Ning Tai, Hong Zhu, Yujian Pan, Chao Wang, Naichang Yuan</i>	
DESIGN AND RESEARCH OF KALMAN FILTER IN MULTI-GNSS RECEIVER	126
<i>Shuo Liu, Lei Zhang, Jian Li, Feng Liu</i>	
RESEARCH AND REALIZATION OF LOCOMOTIVE FITTINGS OVERHAUL MIS BASED ON MIDAS	131
<i>Chengguo Wang, Yu'E Song, Xiaofeng Chen, Shuguang Liu, Qiyu Zhang</i>	
PRECESSION FEATURE ANALYSIS OF BALLISTIC TARGETS BY FMCW-ISAR	135
<i>W. Chang, Z. Li, J. Yang</i>	
RESEARCH ON TARGET ATTRIBUTES FUSION IN NETTED-RADAR BASED ON D-S EVIDENCE THEORY	139
<i>Yu Juan, Zhang Bo-Yan, Yu Ji-Zhou</i>	
FAST FACTORIZED BACK PROJECTION ALGORITHM FOR SPOTLIGHT BISTATIC FORWARD-LOOKING LOW FREQUENCY UWB SAR	143
<i>D. Feng, H. T. Xie, D. X. An, X. T. Huang</i>	
WAVEFORM-AGILE SEQUENTIAL EKF FOR MANOEUVRABLE TARGET TRACKING	148
<i>Wang Bingbing, Sun Jinping, Fu Jinbin, Tian Xianzhong</i>	
A NOVEL STATE-DEPENDENT VS-IMM TRACKER FOR GMTI RADAR	153
<i>Fu Jinbin, Sun Jinping, Sun Wei, Tian Xianzhong</i>	
ANALYSIS ON GUIDANCE PERFORMANCE BASED ON GEOSTATIONARY BROADCAST SATELLITE	158
<i>Jin Wei, Yang Feng, Zhang Baohua</i>	
METHODS OF THE INTEGRATED ERROR COMPENSATION FOR SAR	162
<i>Chong Ni, Qingjun Zhang, Jie Liu, Yu Zhu, Gangtie Zheng</i>	
A NOVEL 2D COMPLEX FISTA FOR ISAR IMAGING	168
<i>Shao Dong Li, Feng Wen Chen, Jun Yang, Xiao Yan Ma</i>	
AN ALONG-TRACK SPARSE IMAGING METHOD FOR FORWARD-LOOKING ARRAY SAR	172
<i>X. Liu, J. Yu, X. Liu, X. Pang</i>	
AIRBORNE ISAR IMAGING TO AIR TARGET	177
<i>Yutao Zhu, Yi Su, Peiguo Liu</i>	
FAST TIME-DOMAIN IMAGE FORMATION METHOD FOR ONE-STATIONARY BISTATIC CIRCULAR SAR BASED ON ELLIPTICAL POLAR COORDINATE	183
<i>X. T. Huang, H. T. Xie, D. X. An, Z. M. Zhou, D. Feng</i>	
RESEARCH ON GNSS GENERATING SPOOFING JAMMING TECHNOLOGY	189
<i>Xie Xiaogang, Lu Mingquan, Zeng Dazhi</i>	
STAP METHOD BASED ON ITERATIVE SUBSPACE TECHNIQUES	194
<i>Zetao Wang, Wenchong Xie, Fei Gao, Yongliang Wang</i>	
A 60-GHZ DIFFERENTIAL-FED CIRCULARLY POLARIZED ON-CHIP ANTENNA BASED ON 0.18μM COMS TECHNOLOGY WITH AMC STRUCTURE	199
<i>L. Wang, W. Z. Sun</i>	
AN IMPROVED METHOD FOR POLARIZATION ESTIMATION OF INCOMING ELECTRIC WAVE	203
<i>Wenzhao Liu, Zhenyu Huang, Huanyao Dai, Jianling Cui, Huidong Qiao</i>	
THE ANALYSIS ON INFRARED RADIANT PROPERTIES OF HYPERSONIC VEHICLE	208
<i>Chen Chen, Cunfeng Gu, Yaqian Li, Ruiheng Lv, Shuwen Wang</i>	
SIMULATION OF AN AIRPLANE USING PARALLEL PO METHOD ON SUPERCOMPUTER PLATFORM WITH 100000 CPU CORES	213
<i>Zhongchao Lin, Yan Chen, Yu Zhang, Xunwang Zhao, Shugang Jiang</i>	
A NOVEL THRESHOLD DETECTION METHOD FOR FMCW RADAR	217
<i>Yuankai Wang, Zelong Xiao, Jianzhong Xu</i>	
ESB-DMR BEAMFORMING UNDER RANDOM MATRIX THEORY JUDGMENT PRINCIPLE	222
<i>Shanchao Yi, Ying Wu, Yunlong Wang</i>	

IMPACT OF FREQUENCY GENERATOR STABILITY IN GEOSYNCHRONOUS SAR	226
<i>Tong Jiang, Caipin Li, Puming Huang, Yapeng He, Dongtao Li</i>	
ESTIMATION OF TARGET POLARIZATION PARAMETERS BASED ON PARTICLE SWARM OPTIMIZER	230
<i>Cangzhen Meng, Xiansi Tan, Guixiang Li, Jiandong Li, Zhifang Zuo</i>	
ADAPTIVE FUSION ALGORITHM WITH DST AND PCR5	234
<i>L. J. Li, J. J. Ding, J. J. Lv, H. B. Xu</i>	
A NOVEL COHERENT INTEGRATION ALGORITHM FOR MOVING TARGET	238
<i>C. Tian, S. L. Wen</i>	
THINNING CURVED SURFACE ARRAYS: APPLICATION OF THE GENETIC ALGORITHM (GA)	244
<i>Z. Y. Bao, J. Z. Yu</i>	
ANALYSIS OF MICRO-DOPPLER FEATURES FOR WALKING PERSON RECOGNITION	248
<i>Z. S. Sun, J. Wang, H. Xiang, C. S. Yuan</i>	
ROBUST BI-ITERATIVE STAP ALGORITHM AGAINST DOA AND DOPPLER MISMATCHES BASED ON SOCP	252
<i>T. Wang, Y.-J. Zhao, T.-X. Dang, C. Zhengzhou</i>	
AN ISAR IMAGING ALGORITHM FOR MICRO-MOTION TARGETS WITH SPARSE APERTURE	258
<i>Chun-Hui Chen, Liang Zhang, Ying Luo, Qun Zhang</i>	
WIDE-BAND DIGITAL DOWN CONVERSION TECHNIQUE BASED ON POLY-PHASE FILTER	263
<i>N. Pang, H. Q. Mu, P. J. Xu</i>	
EFFECT EVALUATION FOR SAR SUPPRESSION JAMMING BASED ON EDGE STRENGTH IMAGE	268
<i>G. X. Wang, S. R. Peng, J. J. Sun, H. He</i>	
COMMUNICATION ANALYSIS OF INTEGRATED WAVEFORM BASED ON LFM AND MSK	272
<i>Liu Zhipeng, Chen Xingbo, Wang Xiaomo, Shanfeng Xu, Feng Yuan</i>	
2 X 2 HYBRID BEAMFORMING MIMO SYSTEM FOR MILLIMETER WAVE COMMUNICATION	277
<i>S. A. Haider, Yabo Li, Keang-Po Ho, Jianhan Liu, I. Ngehani</i>	
MOVING TARGET DETECTORS FOR DISTRIBUTED AIRBORNE MIMO RADAR	282
<i>Hai Feng Yang, Yazhou Wang, Fei Gao, Wenchong Xie, Yongliang Wang</i>	
A MOVING TARGET DETECTION METHOD FOR TWR BASED ON VISUAL ATTENTION MECHANISM	287
<i>Qiang Xu, Biying Lu, Tian Jin</i>	
A CLUTTER SUPPRESSION METHOD OF GROUND PENETRATING RADAR FOR DETECTING SHALLOW SURFACE TARGET	292
<i>Wang Xun, Liu Hai-Bo, Zheng Meng</i>	
RANGE SIDE-LOBE SUPPRESSION METHOD VIA CMR FOR PULSE COMPRESSION LPI WAVEFORM	296
<i>Luo Meifang, Cao Lanying, Hao Zhimei</i>	
AN ITERATIVE RESOURCE ALLOCATION ALGORITHM BASED ON QOE IN PERTURBED TRIANGULAR LATTICE	300
<i>Qiang Gao, Yifan Liu, Jianan Liu, Fei Wang, Zesong Fei</i>	
MULTIPATH EFFECTS COMPENSATION FOR RADARS OR SEEKERS BASED ON MULTICARRIER TECHNIQUES	310
<i>Cunfeng Gu, Chen Chen, Dandan Gu, Ruiheng Lv, Yaqian Li, Xuechen Wang, Shuwen Wang</i>	
EARLY BREAST CANCER DETECTION BASED ON MULTICARRIER TECHNIQUES	314
<i>Dandan Gu, Cunfeng Gu, Guomin Zhou, Shuwen Wang</i>	
RADAR TARGET DETECTION METHOD BASED ON PARTICLE FILTER THEORY UNDER CORRELATED NON-GAUSSIAN CLUTTER BACKGROUNDS	319
<i>X. Feng, J. Jiang, P. Lin, W. H. Wu</i>	
RESEARCH AND IMPLEMENTATION OF DUAL-FREQ CARRIER POSITIONING FOR SATELLITE RECEIVER	324
<i>Zhang Tianle, Fu Jingwen, Li Jiaqi</i>	
AN IMPROVED REAL-TIME IMAGING ALGORITHM OF SPACEBORNE SYNTHETIC APERTURE RADAR	329
<i>Mingming Bian, Wen Yan, Yizhuang Xie, Fengqian Pang, Lixiang Ma</i>	
ANALYSIS ON THE RANGE OF WIND FARM'S IMPACT AREA FOR SECONDARY SURVEILLANCE RADAR	333
<i>Wang Xiaoliang, Ma Yuzhao, He Weikun, Xu Mingyan, Wu Renbiao</i>	

FAST RAW SIGNAL SIMULATION BASED ON EQUIVALENT SCATTERER AND SUBAPERTURE PROCESSING FOR ONE-STATIONARY BISTATIC SAR	337
<i>H. T. Xie, D. X. An, X. T. Huang, Z. M. Zhou, D. Feng</i>	
DETECTION IN SAR IMAGES BASED ON MULTI-DIMENSIONAL GENERALIZED LOW RANK MODEL	343
<i>S. L. Song, J. Yang</i>	
A FAST GMTI METHOD USING DATA-BASED CHANNEL CALIBRATION AND SPECAN PROCESSING	347
<i>Yang Lei, Du Ke, Tan Zhi</i>	
A MODIFIED SUBAPERTURE IMAGING ALGORITHM FOR SQUINTED SLIDING SPOTLIGHT SAR	352
<i>Jiarui Chen, Jindong Zhang, Xiaoyan Qiu, Xiaowei Tang</i>	
MI-BASED STACKELBERG GAME BETWEEN MIMO RADAR AND TARGET IN GAUSSIAN CLUTTER	357
<i>Xing Lan, Wei Li, Xingliang Wang, Jiabing Yan, Mengran Jiang</i>	
CONVOLUTION AND CORRELATION OF NEAREST-NEIGHTBOR MODEL IN ALGEBRAIC SIGNAL PROCESSING	362
<i>L. Y. Xu, F. Zhang, X. J. Kang, Y. S. Zhang</i>	
IMAGE ENCRYPTION BASED ON THE ITERATIVE FRACTIONAL FOURIER TRANSFORM AND A NOVEL PIXEL SCRAMBLING TECHNIQUE	367
<i>Y. B. Li, F. Zhang, X. J. Kang, L. Y. Xu</i>	
OPTIMIZATION OF POLYPHASE CODES BASED ON WEIGHTED CYCLIC ALGORITHM FOR SYNTHETIC APERTURE RADAR	373
<i>Jia-Bing Yan, Wei Li, Xing Lan, Hao-Tian Wu, Qun Zhang</i>	
DOUBLE IMAGE ENCRYPTION BASED ON THE RANDOM FRACTIONAL TRANSFORM	378
<i>X. J. Kang, F. Zhang, L. Y. Xu, Y. S. Zhang, Y. B. Li</i>	
A TARGET LOCATION METHOD FOR HBFL-SAR	382
<i>Xingbo Zhao, Yong Li, Li Liu</i>	
TARGETS LOCATION FOR COLOCATED MIMO RADAR AND SONAR IN MULTIPATH ENVIRONMENT: THE CONJUGATE GRADIENT METHOD	386
<i>Hongpeng Li, Xiang Pan, Zheng Zheng</i>	
MULTI-TARGET LOCALIZATION USING GEOMETRIC MODEL FOR DISTRIBUTED MIMO RADAR	390
<i>J. R. Hu, Y. H. Han</i>	
INVESTIGATION ON THE SPACE-TIME WAVEFORM ENCODING SINGLE PHASE CENTER MULTIPLE AZIMUTH BEAM SLIDING SPOTLIGHT SAR FOR ULTRA-HIGH RESOLUTION AND WIDE SWATH IMAGING	394
<i>Liu Yadong, Chen Qian, Zhang Qingjun, Liu Jie, Yang Shuangjing, Zhu Yu, Shu Weiping</i>	
MILLIMETRE WAVE CIRCULARLY POLARIZED HOLOGRAPHIC ANTENNA BASED ON ARTIFICIAL IMPEDANCE SURFACE	403
<i>Li Jiang, Yang Chun, Chen Qi, Li Bo</i>	
STUDY ON INFLUENCE OF NONCOHERENT INTEGRATION ON FREQUENCY DOMAIN PEAK-TO-AVERAGE RATIO	406
<i>Kai Zhang, Xinguo Zhu</i>	
FAST COMPUTATION METHOD FOR ELECTROMAGNETIC SCATTERING CHARACTERISTICS OF UNMANNED AIR VEHICLE	411
<i>Jun Gu, Zichang Liang, Xiaobing Wang</i>	
ESTIMATION OF GROUND TOPOGRAPHY UNDER FORESTS WITH POLARIMETRIC SAR INTERFEROMETRY DATA	415
<i>Shenglong Guo, Yurun Tian, Yang Li, Qiang Yin, Wen Hong</i>	
WAVEFORM DESIGN AND ANALYSIS FOR RADAR AND COMMUNICATION INTEGRATION SYSTEM	421
<i>Hao Lou, Qun Zhang, Bi-Shuai Liang, Yong-An Chen</i>	
MODEL-BASED DECOMPOSITION WITH ADAPTIVE SELECTION OF UNITARY TRANSFORMATIONS	427
<i>Feiya Zhu, Yunhua Zhang, Dong Li, Xiang Gu</i>	
ADAPTIVE MULTIPLE CUES INTEGRATION FOR PARTICLE FILTER TRACKING	432
<i>Hao Zhou, Yun Gao, Guowu Yuan, Rongbin Ji</i>	
INSAR PHASE NOISE FILTER IN FREQUENCY DOMAIN	438
<i>Zhiyong Suo, Ming Li, Qingjun Zhang, Jinqiang Zhang, Chao Fang</i>	

SINGLE LAYER DUAL-BAND REFLECTARRAY ANTENNA WITH TWO INDEPENDENT RADIATION PATTERNS	442
<i>C. H. Han, Y. H. Zhang</i>	
A HIGH PERFORMANCE FFT PROCESSOR BASED ON CONFLICT-FREE MEMORY ACCESS	446
<i>Long Pang, Xin Qi, Yue-Dong Luo, Yi-Zhuang Xie</i>	
COMPARISON OF SEVERAL SPARSE RECONSTRUCTION ALGORITHMS IN SAR IMAGING	450
<i>Xiangyin Quan, Bin Guo, Yangyun Lu, Bingchen Zhang, Yirong Wu</i>	
STUDY ON SCALING RELATIONSHIPS OF HOMOGENEOUS LOSSY DIELECTRIC MATERIALS	455
<i>Wei Gao, Xiao-Bing Wang, Yi Liao, Hui-Yuan Zhang</i>	
EIGENFUNCTIONS OF THE MULTIDIMENSIONAL NONSEPARABLE LINEAR CANONICAL TRANSFORM	459
<i>Y. S. Zhang, F. Zhang, X. J. Kang, L. Y. Xu</i>	
COHERENT SOURCES ESTIMATION FOR MIMO RADAR WITH UNIFORM CIRCULAR ARRAY	466
<i>Shenghua Wang, Yunhe Cao, Hongtao Su, Yu Wang</i>	
POLARIZATION STATISTICAL PROPERTIES OF ELECTROMAGNETIC WAVES RADIATED FROM COMMUNICATION BASE STATIONS TO UHF BAND RADAR	471
<i>Bo Ren, Longfei Shi, Yuliang Chang, Xuesong Wang, Guoyu Wang</i>	
MIMO RADAR WAVEFORM DESIGN FOR DETECTION OF RICIAN TARGETS	476
<i>Bo Tang, Jun Tang, Yu Zhang</i>	
A GENERALIZED ELECTROMAGNETIC WAVE PENETRATING PROPAGATION MODEL FOR CS IMAGING IN THROUGH-THE-WALL RADAR	481
<i>T. Jin, S. L. Sun, A. Yarovsky</i>	
A ROBUST SINGLE DATA SET-STAP ALGORITHM	485
<i>Zhan-Ye Chen, Yu Zhou, Lin-Rang Zhang, Qiang Li, Ya-Bin Gu</i>	
IMPROVED WAVEFORM DESIGN FOR NON-GAUSSIAN TARGET CLASSIFICATION IN COGNITIVE RADAR	490
<i>Zhou Rui, Zhou Bo, Liu Lin, Zhang Xiaofen, Jiao Bin</i>	
A FAST 2D-ESPRIT SUPER-RESOLUTION IMAGING ALGORITHM FOR LINEAR ARRAY SAR	494
<i>Yichao Zhao, Yutao Zhu, Yi Su, Meng Yang</i>	
TARGET DETECTION METHOD FOR NON-COOPERATIVE PBR WITH FREQUENCY-AGILE AND PRI-AGILE RADAR	499
<i>Caiyong Lin, Panhe Hu, Qinglong Bao, Shuyan Zhang, Zengping Chen</i>	
AN EXPERIMENTAL STUDY OF DIGITAL ARRAY PASSIVE BISTATIC RADAR SYSTEM	503
<i>Panhe Hu, Qinglong Bao, Caiyong Lin, Zengping Chen</i>	
CBP-BASED ALGORITHM AND REMEDY IN CS RADAR FOR OFF-GRID TARGETS	507
<i>Qiang Yang, Hang Yang, Dashan Guo</i>	
A NEW TARGET RCS MODEL-α-μ DISTRIBUTION	511
<i>Bing Wang, Guolong Cui, Zhenhua Chen, Wei Yi, Lingjiang Kong</i>	
ON THE EXPLOITATION OF POLARIMETRIC PHASE IN PCL SYSTEMS	515
<i>S. J. Anderson, K. S. Yau, H. D. Griffiths</i>	
WEAK TARGET DETECTION WITH THE SELECTION OF IMF AGAINST SEA CLUTTER	520
<i>Lin Zhang, Jian Guan, Jian Zhang, Ning-Bo Liu</i>	
CONSTANT MODULUS WAVEFORM SYNTHESIS BASED ON ITERATIVE CONVEX OPTIMIZATION	524
<i>Li Xiu-You, Xue Yong-Hua, Dong Yun-Long, Guan Jian</i>	
HIGH DOPPLER TOLERANCE WAVEFORM DESIGN ALGORITHM BASED ON AMBIGUITY FUNCTION	529
<i>Li Xiu-You, Guan Jian, Xue Yong-Hua, Huang Yong</i>	
A TRACK PROCESSING METHOD OF MULTI-TARGET BASED ON PASSIVE RADAR	534
<i>Shuyan Zhang, Qinglong Bao, Caiyong Lin, Zengping Chen</i>	
A SMALL ARRAY HFSWR SYSTEM FOR SHIP SURVEILLANCE	540
<i>Y. G. Ji, J. Zhang, Y. M. Wang, X. L. Chu, C. J. Yu, A. J. Liu, M. Li, J. Niu, L. Zhang, W. F. Sun</i>	
MANEUVERING MULTI-TARGET TRACKING BASED ON PHD FILTER FOR PHASED ARRAY RADAR	545
<i>Changshun Yuan, Jun Wang, Peng Lei, Zhongsheng Sun, Hong Xiang</i>	
2D DOA ESTIMATOR FOR COHERENTLY DISTRIBUTED SOURCES BASED ON FOURTH ORDER CUMULANTS	549
<i>Qingqing Lin, Ping Shuai, Liangtian Wan, Liangwei Huang</i>	

SPACE-TIME ADAPTIVE PROCESSING FOR AIRBORNE RADAR WITH CONFORMAL ARRAY	556
<i>Xiaodong Han, Ding Luo, Ting Shu, Wenxian Yu, Manqing Wu</i>	
A MULTI-OBJECTIVE ORTHOGONAL WAVEFORM OPTIMIZATION METHOD FOR MIMO RADAR	561
<i>Liu Yunfo, Li Yuanyuan, Wang Liqiang, Zhang Qi</i>	
TARGET DETECTION AND LOCALIZATION USING MULTI-FRAME INFORMATION FOR NONCOHERENT MIMO RADAR	566
<i>Ziwei Zhang, Wei Yi, Lingjiang Kong</i>	
AN ANTI-JAMMING AND AZIMUTH ANGLE ESTIMATION ALGORITHM FOR OMNI-DIRECTIONAL VHF RADAR	572
<i>C. Tian, S. L. Wen</i>	
A HETEROGENEOUS CLUTTER SUPPRESSION METHOD BASED ON SUBARRAYS	578
<i>Ye Dong, Xiaodong Han, Rui Liu, Chenxiao Zhang</i>	
A NEW SHIP DETECTION METHOD FOR OTHER UNDER MULTI-MODE PROPAGATION	583
<i>Tao Yan, Jian-Wen Chen, Zheng Bao</i>	
IMAGING PLANE CHARACTERISATION FOR ISAR IMAGING OF LEO SPACE OBJECTS	588
<i>Jin Chen, Tuo Fu, Defeng Chen, Meiguo Gao</i>	
SYNTHESIS OF SPARSE CONCENTRIC RING ANTENNA ARRAYS BY CONVEX OPTIMIZATION	594
<i>X. W. Zhao, Q. S. Yang, Y. H. Zhang</i>	
EUROPEAN SPACE SURVEILLANCE BISTATIC BREADBOARD RADAR	599
<i>S. Saillant</i>	
STEPPED-FREQUENCY COHERENT IMAGING OF SPACE TARGET	602
<i>Jin Chen, Tuo Fu, Defeng Chen, Meiguo Gao</i>	
A NOVEL TECHNIQUE FOR VERY ACCURATE THREE-DIMENSIONAL MONITORING OF STRUCTURAL VIBRATIONS AND DISPLACEMENT BY REMOTE RADAR SENSORS	608
<i>G. Giunta, A. Monti-Guarnieri, D. D'Aria, F. Speziali, P. Falcone, L. Maggi, G. Amoroso</i>	
RESEARCH ON TARGET MODEL AND ECHEOS SPATIAL CORRELATION OF DISTRIBUTED RADAR	614
<i>K. K. Song, T. Sun, H. F. Peng, K. Li</i>	
CONTEXTUAL SPARSE REPRESENTATION AND ITS APPLICATION IN POLARIMETRIC SAR IMAGE CLASSIFICATION	619
<i>Lamei Zhang, Xiao Wang, Liangjie Sun, W. M. Moon</i>	
SEQUENTIAL DETERMINATION BASED MULTIPATH SUPPRESSION ALGORITHM FOR THROUGH WALL IMAGING RADAR	624
<i>Liang Yuan, Xiaohua Zhao, Guolong Cui, Lingjiang Kong, Xiaobo Yang, Dong Yan</i>	
ANALYSIS OF DIFFERENT Z-SCORE DATA TO THE NEURAL NETWORK FOR AUTOMATIC FSR VEHICLE CLASSIFICATION	629
<i>N. F. Abdullah, N. E. A. Rashid, Z. I. Khan, I. Musirin</i>	
A NOVEL RECOGNITION METHOD FOR HYBRID MODULATION RADAR SIGNALS	634
<i>Peng Xiong, Liu-Li Wu, Xiao-Hu Ru, Qing He, Zheng Liu, Wen-Li Jiang</i>	
A HISTOGRAM BASED METHOD FOR MICRO-DOPPLER INTERFERENCE REMOVAL	639
<i>Rui Zhang, Gang Li</i>	
MULTI-TARGET PARAMETER ESTIMATION BASED ON VELOCITY COMPENSATION IN FMCW RADAR	644
<i>Qi-Yong Liu, Yu-Xue Sun, Qun Zhang, Xian-Jiao Liang</i>	
A MODEL-BASED APPROACH FOR GEOMETRY EXTRACTION OF BUILDINGS FROM SAR IMAGE	648
<i>Yueting Zhang, Fangfang Li, Xiaolan Qiu, Chibiao Ding</i>	
ADAPTIVE RAO DETECTOR FOR DISTRIBUTED TARGETS IN THE FREQUENCY DOMAIN	651
<i>Yu Wang, Yunhe Cao, Hongtao Su, Shenghua Wang</i>	
EMITTER LOCALIZATION USING SIGNAL WAVEFORM INFORMATION IN MULTISTATIC PASSIVE RADAR	655
<i>Z. H. Chen, W. Yi, L. J. Kong, X. B. Yang</i>	
PRACTICAL RADAR COMPRESSIVE SAMPLING SYSTEM VIA SLOW-TIME DIMENSIONAL PROCESSING	660
<i>X. Li, T. Yu, R. X. Wang, P. F. Shi, H. Huan</i>	
OUTDOOR MOVING HUMAN MICRO-DOPPLER FEATURE ANALYSIS WITH KU BAND RADAR	667
<i>J. Zhang, T. Jin, Z. M. Zhou, X. T. Huang</i>	

RESEARCH ON SIMULTANEOUS POLARIMETRIC MEASUREMENT BASED ON PN-NLFM SIGNALS	671
<i>Xuebin Wang, Tao Jin, Xiaohui Qi, Xiaohong Wang</i>	
PATTERN SEARCH-BASED SPARSE ARRAY DESIGN FOR UNAMBIGUOUS DOA ESTIMATION	676
<i>Xianxiang Yu, Cuiguo Long, Shangwei Gao, Lingjiang Kong</i>	
STATIONARY OBJECT DETECTION IN FORWARD SCATTERING RADAR.....	681
<i>R. S. A. Raja Abdullah, A. M. Ali, N. E. A. Rashid</i>	
ANTENNA PLACEMENT FOR DISTRIBUTED MIMO RADAR WITH SURVEILLANCE PERFORMANCE.....	686
<i>Yichuan Yang, Wei Yi, Guolong Cui, Lingjiang Kong, Jianyu Yang</i>	
AN IMPROVED TRACK-BEFORE-DETECT STRATEGY FOR STAP RADARS	691
<i>Haichao Jiang, Wei Yi, Lingjiang Kong, Xiaobo Yang</i>	
CYCLE OF DEVELOPMENT OF A PHASED ARRAY RADAR WITH DISTRIBUTED PROCESSING	696
<i>V. A. F. Santa Rita, B. S. Pompeo, B. S. De Carvalho, G. T. Beltrao</i>	
STUDY ON MODEL OF IONOSPHERE FINE STRUCTURE FOR COGNITIVE RADAR.....	701
<i>Zheng Bao, Jian-Wen Chen</i>	
WEAK SCATTERING TARGET TRACKING WITH COORDINATE TRANSFORMATION BASED UNSCENTED KALMAN FILTER.....	705
<i>Hao Yin, Jingwen Li, Yan Wang</i>	
A NOVEL WAVEFORM SELECTION METHOD FOR COGNITIVE RADAR DURING TARGET TRACKING BASED ON THE WIND DRIVEN OPTIMIZATION TECHNIQUE	710
<i>Zhenkai Zhang, S. Salous, Jiehao Zhu, Dengxiong Song</i>	
ISAR IMAGING OF A PRECESSION CONE TARGET	718
<i>Chao Ning, Zhongling Liu, Yu Zhang</i>	
IMPROVED FISHER LINEAR DISCRIMINANT ANALYSIS FOR FEATURE EXTRACTION OF UNINTENTIONAL MODULATION ON PULSE BY COMBINING AMBIGUITY FUNCTION WITH WAVELET TRANSFORM.....	723
<i>Haizhao Guo, Xiaonu Zhang, Libo Yang, Shunsheng Zhang</i>	
ENHANCED MONOPULSE ANGLE ESTIMATION USING 4-CHANNEL RADAR SYSTEM	727
<i>Kai-Bor Yu</i>	
ANTENNA PATTERN SYNTHESIS WITH MULTIPLE DISCRETE AND CONTINUOUS NULLS.....	733
<i>Kai-Bor Yu, M. F. Fernandez</i>	
NARROW-BAND INTERFERENCE SUPPRESSION IN DSSS USING DUAL-THRESHOLD ALGORITHM	740
<i>Dawei Zhao, Bingjie Jia, Jiansong Ding, Wei Cui</i>	
AN ESPRIT-LIKE ALGORITHM FOR COHERENT ANGLE ESTIMATION IN BISTATIC MIMO RADAR.....	745
<i>Yali Wang, Zhiguo Liu, Zhonghai Yin, Qiang Sun, Xiaolong Liang</i>	
JOINT DOD AND DOA ESTIMATION USING 2-D UNITARY ESPRIT FOR BISTATIC MIMO RADAR.....	751
<i>Yali Wang, Zhiguo Liu</i>	
PERIODIC NON-UNIFORMLY SAMPLED SIGNAL RECONSTRUCTION OF FMCW MIMO SAR USING FRACTIONAL FOURIER TRANSFORM	757
<i>Qiao Zou, Pu Cheng, Qin Xin, Jiangwei Wan</i>	
LIFE SIGNAL EXTRACTION BASED ON ISOPHASE IN THROUGH-THE-WALL RADAR.....	763
<i>Lei Qiu, Tian Jin, Biying Lu, Zhimin Zhou</i>	
PRELIMINARY RESULTS OF THE METASENSING FULLY POLARIMETRIC L-BAND AIRBORNE SAR FOR VEGETATION CLASSIFICATION.....	768
<i>L. Corucci, A. Meta, A. Coccia</i>	
RADIOMETRIC CALIBRATION OF THE SNOWSAR IMAGES OF SUB-ARTIC OPEN TUNDRA WATERSHED IN CANADA.....	772
<i>D. Di Leo, A. Coccia, A. Meta, L. Corucci</i>	
KNOWLEDGE-AIDED BAYESIAN DETECTION WITH MIMO RADAR IN COMPOUND-GAUSSIAN CLUTTER	779
<i>N. Li, G. Cui, H. Yang, L. Kong, Q. H. Liu</i>	
ADAPTIVE DETECTION OF DISTRIBUTED TARGETS IN GAUSSIAN CLUTTER WITHOUT SECONDARY DATA: AN APPROACH BASED ON MULTIPLE A-PRIORI SPECTRAL MODELS.....	785
<i>N. Li, G. Cui, H. Yang, L. Kong, Q. H. Liu</i>	

ADAPTIVE DETECTION OF DISTRIBUTED TARGETS IN COMPOUND-GAUSSIAN CLUTTER WITHOUT SECONDARY DATA: AN APPROACH BASED ON MULTIPLE A-PRIORI SPECTRAL MODELS	791
<i>N. Li, G. Cui, H. Yang, L. Kong, Q. H. Liu</i>	
DOA ESTIMATION BASED ON A MODIFIED SPATIAL SPECTRUM	797
<i>Fei Huang, Zhuo Zhou, Qiaozhen Zheng</i>	
FSR GROUND CLUTTER DISTRIBUTION MODEL ANALYSIS FOR VHF BAND	801
<i>N. N. Ismail, N. E. A. Rashid, N. A. Zakaria, Z. I. Khan</i>	
ANALYSIS OF X-BAND POLINSAR COHERENCE CHARACTERISTICS IN FORESTED AREAS	807
<i>H. Y. Zhang, Z. F. Li, Z. B. Wang</i>	
WEAK TARGET DETECTION ALGORITHM FOR NON-COOPERATIVE BISTATIC RADAR	812
<i>Dinghe Wang, Qinglong Bao, Zhaodong Niu, Zengping Chen</i>	
A NEW TWO-STAGE SPARSE REPRESENTATION FOR FAST MULTI-TARGET LOCATION IN BISTATIC MIMO RADAR	817
<i>C. Y. Wang, L. L. Gong</i>	
A MARCHING-ON-IN-TIME SOLUTION OF TIME-DOMAIN COMBINED FIELD INTEGRAL EQUATION WITH A HIGHER ORDER NYSTRO μM SCHEME	822
<i>Z. H. Fan, J. Cao, R. S. Chen, D. W. Song, S. Shang, Z. W. Qiang</i>	
TRANSIENT ELECTROMAGNETIC SCATTERING FROM BODIES OF REVOLUTION BY TIME-DOMAIN COMBINED FIELD INTEGRAL EQUATION	825
<i>Z. He, Y. Z. Sun, D. W. Song, Z. H. Fan, D. Z. Ding, R. S. Chen</i>	
ANALYSIS OF TRANSIENT SCATTERING FROM A CONDUCTOR COATED BY MULTILAYER THIN MATERIALS USING TIME DOMAIN INTEGRAL EQUATION	830
<i>Z. H. Fan, W. Q. Zhu, G. S. Cheng, R. S. Chen, W. F. Sun, D. Li</i>	
MODIFIED POLAR FORMAT ALGORITHM FOR ISAR IMAGING	833
<i>Di Xiong, Junling Wang, Huipeng Zhao, Meiguo Gao</i>	
TIME DOMAIN INTEGRAL EQUATION FOR ANALYSIS OF SCATTERING FROM COMPOSITE CONDUCTING-DISPERSIVE DIELECTRIC OBJECTS	840
<i>Y. L. Hu, D. Z. Ding, Y. Z. Sun, D. W. Song, S. Shang, R. S. Chen</i>	
INVESTIGATION ON THE MOTION COMPENSATION OF THE THZ SAR	843
<i>Chuqiang Deng, Yupeng Wang, Zhenhua Liu, Xia Wang, Chongyi Li, Tao Jiang</i>	
EIGEN-DIRECTION ALIGNMENT DESIGN FOR UPLINK MULTI-USER MULTI-CELL MIMO SYSTEMS	847
<i>Niwei Wang, Chengwen Xing, Yushu Cao, Zesong Fei, Jingming Kuang</i>	
MODELING OF MICRO-DOPPLER SIGNATURES FROM ROTOR BLADES	852
<i>Baoshuai Wang, Weilu Li, Lan Du, Huiruo Shi</i>	
PARAMETRIC SPARSE REPRESENTATION METHOD FOR PARAMETER ESTIMATION IN SAR IMAGING	859
<i>Y. Chen, W. Zhao, G. Li, Q. Zhang</i>	
PMEPR REDUCTION WITH THE ITERATIVE LEAST SQUARES ALGORITHM FOR AN OFDM RADAR	864
<i>Tianyao Huang, Tong Zhao</i>	

VOLUME 2

IMPLEMENTING CLUSTER ANALYSIS TO KNOWLEDGE-AIDED COVARIANCE ESTIMATION	869
<i>Mingchi Xie, Wei Yi, Lingjiang Kong</i>	
A NOVEL SPACE TARGET LOCATION METHOD FOR SPACEBORNE RADAR	874
<i>Liu Bo, Yin Jianfeng, Bian Mingming</i>	
DETECTION THRESHOLDS OF JITTERED PRI RADAR SIGNALS IN TDOA HISTOGRAM	879
<i>Xiang Yang, Hongyu Gu</i>	
IMPULSE RADIO UWB RADAR PULSE DETECTOR	884
<i>J. Le Kerrec, D. Gray</i>	
DOPPLER FREQUENCY ANALYSIS OF GROUND CLUTTER FOR SPACE-AIR BASED BISTATIC RADAR	892
<i>Zhongyan Huang, Libao Wang, Junquan Yuan, Hui Rao, Xiaoyan Ma</i>	
A DIGITAL FLL AND ITS STEADY-STATE PERFORMANCE ANALYSIS IN Z DOMAIN	896
<i>M. F. Han, J. Z. Ning, D. Zhao, J. Dou</i>	

A NEAR-FIELD BACK-PROJECTION ALGORITHM FOR WALL PENETRATING SAR	901
<i>Wei Liu, Wei Wei, Meng Zheng, Yin Xiang, Zegang Ding</i>	
MULTIPLE WAVEFORMS SEPARATION BASED ON OBLIQUE PROJECTION FOR COLLOCATED MIMO RADAR	905
<i>Cangzhen Meng, Jia Xu, Xiansi Tan, Guixiang Li, Yingning Peng</i>	
INTEGRATED CLUTTER-KNOWLEDGE-BASED TRACKING ALGORITHM IN COMPLEX GROUND ENVIRONMENT	910
<i>Jiahuan Liu, Lingjiang Kong, Wei Yi</i>	
DESIGN AND APPLICATION OF ENVIRONMENTAL KNOWLEDGE BASE	915
<i>Shuping Lu, Haiyang Song, Wei Yi, Lingjiang Kong, Xiaobo Yang</i>	
THE DYNAMIC UPDATE OF ENVIRONMENTAL KNOWLEDGE BASE	921
<i>Shuping Lu, Haiyang Song, Wei Yi, Lingjiang Kong, Xiaobo Yang</i>	
COMPRESSIVE HIGH RANGE RESOLUTION RADAR IMAGING BASED ON CONTINUOUS DICTIONARY	927
<i>Lei Yang, Jianxiong Zhou, Huaitie Xiao</i>	
SPACEBORNE RADAR-COMMUNICATION INTEGRATION SIGNAL DESIGN FOR MOVING TARGET DETECTION	932
<i>Yicheng Jiang, Sai Guo</i>	
COMPRESSIVE GLRT DETECTOR FOR RADAR SYSTEM	938
<i>Ying Sun, Jianjun Huang, Jingxiong Huang, Pengfei Li</i>	
PHASE ERROR AUTOFOCUS FOR SPOTLIGHT SAR IMAGERY	942
<i>R. Jiang</i>	
A NEW PARAMETER ESTIMATION ALGORITHM FOR FAST MOVING TARGETS	948
<i>J. Tian, G. Yang, J. Liu, W. Cui, S. B. Dong</i>	
AN IMPROVED SUBSPACE PURSUIT ALGORITHM BASED ON REGULARIZED MULTIPATH SEARCH	953
<i>Y. L. Zhang, J. Zhao, X. Bai</i>	
COVARIANCE MATRIX TAPERS ESTIMATION IN KNOWLEDGE-AIDED STAP FOR SEA CLUTTER ENVIRONMENT	958
<i>S. Zhang, J. Li, Z. He</i>	
KNOWLEDGE-AIDED TARGET DETECTION IN SEA CLUTTER FOR DISTRIBUTED MIMO SKY-WAVE RADAR	964
<i>Xue Yong-Hua, Li Xiu-You, Sun Yan-Li</i>	
EXTENDED TARGET TRACKING WITH PARTICLE FILTERING IN COHERENT MIMO RADAR	969
<i>Dongchao Yang, Wei Yi, Suqi Li, Lingjiang Kong, Bailu Wang</i>	
STUDY ON BANDWIDTH SYNTHESIS METHOD IN THE RANGE FOR OFDM MIMO-SAR	975
<i>Libao Wang, Chao Xie, Cangzhen Meng, Hui Rao, Ling Wang</i>	
A NEW ACCELERATION ESTIMATION METHOD BASED ON SPECIAL FRFT IN MIMO RADAR	979
<i>N. Pang, P. J. Xu</i>	
BISPECTRUM PROPERTY ANALYSIS OF HIGH RESOLUTION REAL SEA CLUTTER	984
<i>Ding Hao, Sun Yanli, Liu Ningbo, Wang Guoqing</i>	
GAUSSIAN MIXTURE CONVERTED DOPPLER MEASUREMENT KALMAN FILTER	988
<i>Zhengkun Guo, Gongjian Zhou, Rongqing Xu</i>	
WIND TURBINE CLUTTER MITIGATION BASED ON MATCHING PURSUITS	994
<i>Weikun He, Yuluo Shi, Xiaoliang Wang, Renbiao Wu</i>	
A NEW INTERACTING MULTIPLE MODEL ALGORITHM FOR MANEUVERING TARGET TRACKING BASED ON ADAPTIVE TRANSITION PROBABILITY UPDATING	1000
<i>Daikun Zheng, Shouyong Wang</i>	
RADAR MANEUVERING TARGET DETECTION BASED ON SCALING PROCESSING AND RADON-FOURIER TRANSFORM	1005
<i>Xiaolong Chen, Jian Guan, Zhijian Zhao, Yonghua Xue</i>	
MITIGATION OF WIND TURBINE CLUTTER BASED ON THE PERIODICITY IN SCANNING ATC RADAR	1009
<i>Weikun He, Qiuping Zhai, Xiaoliang Wang, Renbiao Wu</i>	
AN IMPROVING METHOD OF AIRBORNE SINGLE STATION PASSIVE TRACKING UNDER FLEXIBLE MANEUVER OF OBSERVER	1015
<i>Wu Qiong, Zhang Yaotian, Wei Shaoming</i>	
MICRO-DOPPLER SIGNATURE EXTRACTION OF RADAR GROUND TARGET BASED ON BASIS PURSUIT	1019
<i>Yang Bin, Wang Jun, Wu Qiong, Lei Peng</i>	

SAR IMAGING WITH FREQUENCY BAND GAPS BASED ON SPARSE REGULARIZATION	1023
<i>Xiao Dong, Yunhua Zhang</i>	
A NEW PARAMETERS ESTIMATION METHOD FOR HIGH SPEED AIR TARGETS USING SOKT/IFRRT	1029
<i>A. Almslmany, Q. S. Cao, C. Y. Wang</i>	
FULL ANALYSIS OF RCS OF WIND TURBINE BLADES.....	1037
<i>Yuzhao Ma, Renbiao Wu, Xiaoliang Wang, Weikun He</i>	
THE CWE APPROACH BASED ON KEYSTONE TRANSFORM	1043
<i>Tao Li, Chengfa Xu, Yuping Zhang, Fen Xu, Meiguo Gao</i>	
MOVING TARGET IMAGING BASED ON SPARSE SIMO RADAR WITH MULTIPLE CARRIER FREQUENCIES.....	1048
<i>Yong-An Chen, Qun Zhang, Lu Sun, Bi-Shuai Liang</i>	
BINARY SEQUENCE DESIGN FOR TRANSMIT DIVERSITY MIMO RADAR.....	1053
<i>Haiqing Wang, Xiaohua Zhu, Jindong Zhang</i>	
A NOVEL TWO-BRANCH PREDISTORTION LINEARIZER OF KU-BAND TWTA IN COMMUNICATION APPLICATIONS.....	1057
<i>Liu Jie, Zhang Hua-Dong, Li Zeng-Liang</i>	
AN ULTRA-WIDE BAND EXPONENTIAL FLARED TEM HORN ANTENNA FOR IMPULSE RADAR SYSTEMS	1060
<i>Lizhong Song, Yuming Nie</i>	
ERROR ANALYSIS OF ANGLE MEASUREMENT FOR TWO-DIPOLES ANTENNA MEASUREMENT SYSTEM	1062
<i>Si Luo, Heqiang Mu, Yanling Jia, Xiaoma Shen</i>	
FORWARD SCATTERING RADAR (FSR) GROUND TARGET SIGNAL PROCESSING USING WAVELET TECHNIQUE (WT)	1067
<i>C. W. F. Che Wan Fareez, O. Kama Azura, A. R. Nur Emileen</i>	
SUPERCONDUCTING PLANAR LOG-PERIODIC ANTENNA FOR MILLIMETER/TERAHERTZ WAVE RECEIVER	1072
<i>Pei Wang, Zhigao Zuo, Jizhou Yu</i>	
AN IMPROVED MULTIPLE EXTENDED TARGET TRACKING ALGORITHM BASED ON MEASUREMENT RATE ESTIMATES	1076
<i>Junhua Zhou, Jinlong Yang, Fengmei Liu, Jian Reng, Wensheng Wu</i>	
AN HIGH-EFFICIENCY POSITIONING METHOD FOR GROUND TESTING SAR SYSTEM	1080
<i>Yu-Quan Liu, Yue-Dong Luo, Yi-Zhuang Xie</i>	
CHARACTERIZATION OF MIXED TARGET SCATTERING USING RANDOM SIMILARITY.....	1085
<i>Dong Li, Yunhua Zhang, Yueying Tang</i>	
THE APPLICATION OF FEMTOSECOND LIDAR IN ATMOSPHERE REMOTE SENSING.....	1090
<i>Jing Yu, Shaohui Li, Jinghua Wang</i>	
PHYSICAL LAYER FRAME STRUCTURE DESIGN OF OFDM BASED MOBILE SATELLITE COMMUNICATION	1097
<i>Xiang Ji, Chengwen Xing, Siyi Chen, Shaozhen Guo, Zesong Fei</i>	
APPLICATION OF DEEP LEARNING TO POLARIMETRIC SAR CLASSIFICATION.....	1102
<i>Chun Liu, Junjun Yin, Jian Yang</i>	
A NOVEL SELF-ADAPTIVE DENSITY-BASED CLUSTERING ALGORITHM FOR RADAR SIGNAL SORTING.....	1106
<i>Ying Liu, Hongyuan Cui</i>	
THE IMPROVED IMM TRACKING ALGORITHM FOR HIGH-SPEED MANEUVERING TARGET	1113
<i>Xin Bi, Wei Wang, Jie Gao, Jinsong Du</i>	
MISMATCHED FILTERING FOR CIRCULATING SPACE-TIME CODES	1117
<i>T. Faucon, G. Pinaud, F. Le Chevalier</i>	
ANALYSIS OF FRAME SYNCHRONIZATION ALGORITHM AND PERFORMANCE BASED ON GPS L1C NAVIGATION SIGNAL	1124
<i>Li Qing, Zhang Lei</i>	
COHERENT PARAMETERS ESTIMATION METHOD BASED ON MUSIC AND KF IN WIDEBAND DCAR	1130
<i>H. G. Zhang, Z. J. Lei, Y. Y. Song</i>	
MULTI-RESOLUTION COMPOSITE ARRAY BASED RADAR WITH ADAPTIVE BEAMFORMING	1136
<i>Y. Tang, B. Jiang, T. Zhou, T. Mao</i>	
WAVEFORM DESIGN WITH GOOD CORRELATION PROPERTIES FOR MIMO RADAR.....	1140
<i>Ya Yang, Guolong Cui, Liang Li, Lingjiang Kong, Xiaobo Yang</i>	

AN APPROACH OF GROSS ERROR ELIMINATION IN GNSS RECEIVER HOT START	1145
<i>Shuo Liu, Lei Zhang, Jian Li, Teng Long</i>	
INVESTIGATIONS TOWARD MICRO-DOPPLER EFFECT IN DIGITAL BROADCASTING BASED PASSIVE RADAR.....	1149
<i>P. Xia, X. R. Wan, J. X. Yi, Y. I. Rao, I. V. Ke</i>	
STUDY ON INTEGRATED RADAR-COMMUNICATION SIGNAL OF OFDM-LFM BASED ON FRFT.....	1154
<i>Kangrun Chen, Yang Liu, Wei Zhang</i>	
MULTITARGET TRACKING ALGORITHM BASED ON LDL DECOMPOSITION	1160
<i>Shicang Zhang, Liangbin Wu, Shuai Chen</i>	
NEGATIVE OBSTACLE SENSING BASED ON REAL DATA OF ULTRA-WIDEBAND SAR	1164
<i>Zhibiao Jiang, Jian Wang, Qian Song, Zhimin Zhou</i>	
MILLIMETER-WAVE BANDPASS FILTERS TECHNOLOGIES.....	1169
<i>Sai-Wai Wong, Ruisen Chen</i>	
ITERATIVE REALIZATION OF THE 2-D CAPON METHOD APPLIED IN SAR IMAGE PROCESSING	1174
<i>C. Duan, K. Zhu, Z. Leng</i>	
COMPRESSIVE SENSING ALGORITHM FOR DOWNWARD-LOOKING SPARSE ARRAY 3-D SAR IMAGING	1179
<i>Siqian Zhang, Gangyao Kuang, Yutao Zhu, Ganggang Dong</i>	
COMPLETE COMPLEMENTARY SEQUENCE FOR MIMO RADAR WAVEFORM DESIGN WITH LOW RANGE SIDELOBES	1184
<i>H. Wu, Z. Song, Z. Liu, Q. Fu</i>	
AN EFFICIENT FFT-MAPPING METHOD BASED ON CACHE OPTIMIZATION	1189
<i>Zhu Liang, Liu Tengfei, Gao Lining, Wang Jingyang</i>	
MOTION COMPENSATION TECHNIQUE FOR UGV BASED FORWARD LOOKING INSAR.....	1195
<i>Jian Wang, Zhibiao Jiang, Qian Song, Zhimin Zhou</i>	
AN IMPLEMENTATION OF LOW COST MIMO RF TRANSCEIVER ON LTE FEMTO BASE STATION.....	1201
<i>Yang Hong-Tao, Liu Ye-Hui, Yu.-E. Song, Sun She-Wen, Zhu He-Xin</i>	
GMTI BASED ON A COMBINATION OF DPCA AND ATI	1207
<i>Xiao Yang, Junfeng Wang</i>	
SALIENCY-BASED SHIP DETECTION IN SAR IMAGES.....	1212
<i>Ying Yu, Fukun Bi, Yuanyuan Pu, Hao Zhou, Jian Yang</i>	
OPM AND ROOT-RARE METHOD BASED DOA ESTIMATION FOR ULA WITH MUTUAL COUPLING.....	1217
<i>H. Wu, C. Hou, H. Chen, Q. Wang, X. Zhao</i>	
HIGHER-ORDER MOM COMBINED WAVEPORT ANALYSIS OF CIRCULAR WAVEGUIDE PROBLEMS.....	1223
<i>Qing Chang, Yong Wang, Yu Zhang, Xunwang Zhao</i>	
NEW METHOD TO CORRECT BACKGROUND IONOSPHERIC PHASE DISTORTION IN GEO SAR.....	1227
<i>Xin Zhang, Puming Huang, Wei Wei Wang</i>	
CLUTTER SUPPRESSION AND TARGET DETECTION BASED ON BIPARAMETRIC CLUTTER MAP CFAR.....	1231
<i>C. Y. Wang, R. Y. Pan, J. H. Liu</i>	
RESEARCH ON ANGLE MEASUREMENT METHOD OF MONOPULSE SAR.....	1235
<i>Zengliang Li, Xin Zhao, Huadong Zhang</i>	
TARGET ALTITUDE ESTIMATION IN OTHR VIA DIFFUSE SURFACE SCATTER.....	1239
<i>S. J. Anderson</i>	
3D RECONSTRUCTION OF TARGET GEOMETRY BASED ON 2D ISAR IMAGE MOVIES.....	1245
<i>Bi Yanxian, Sun Zhongsheng, Yuan Changshun, Xiang Hong, Wang Jun</i>	
PPP TECHNIQUE EVALUATION BASED ITS ALL ESTIMATES UTILIZING CSRS-PPP ONLINE SERVICE.....	1251
<i>Fucheng Song, Shuangshuang Shi, Yijin Chen, Ting Yang</i>	
AIRPLANE LANDING-AID IMAGING RADAR SYSTEM AND EXPERIMENT.....	1256
<i>Yongchao Zhang, Yue Wang, Yulin Huang, Yuebo Zha, Jianyu Yang</i>	
INVERSE SYNTHETIC APERTURE RADAR IMAGING BASED ON HYPERBOLIC FREQUENCY MODULATED CONTINUOUS WAVEFORM.....	1260
<i>W. Zhou, C. M. Yeh, R. J. Jin, J. Yang</i>	

AN EFFICIENT COHERENT INTEGRATION METHOD FOR MANEUVERING TARGET DETECTION	1266
<i>Xiaolong Li, Guolong Cui, Wei Yi, Lingjiang Kong</i>	
SPATIAL SPECTRUM ESTIMATION BASED ON COMPRESSIVE SENSING.....	1272
<i>Li Wei, Deng Weibo, Wu Xiaochuan</i>	
AN EFFECTIVE METHOD FOR DESIGNING NEARFIELD MIMO ARRAY	1278
<i>Liechen Yu, Shiyong Li, Guoqiang Zhao, Houjun Sun</i>	
A CROSS-RANGE SCALING APPROACH FOR ISAR IMAGE OF AIRCRAFT WITH LARGE PROPELLERS.....	1283
<i>Da Xiao, Fulin Su, Guohui Di, Jianjun Gao</i>	
DESIGN OF TRI-BAND FSS USED AS SUBREFLECTOR IN KU AND KA BANDS	1289
<i>X. Y. Song, Z. H. Yan, T. L. Zhang</i>	
MODIFIED SPATIAL CLUTTER SPARSITY ESTIMATION FOR CLOSELY-SPACED TARGET TRACKING	1294
<i>G. J. Zhou, L. Xu, D. Ma</i>	
SHIP TARGET DETECTION FOR COMPLICATED INNER HARBOR SAR IMAGES	1300
<i>Kan Yingzhi, Zhu Yongfeng, Fu Qiang</i>	
A FAST TIME DELAY ESTIMATOR OF CUBIC PHASE SIGNAL BASED ON SIMPLIFIED FRACTIONAL FOURIER TRANSFORM.....	1305
<i>Ke Zhang, Xue Ke Ding, Qun Wan, Guan Gui</i>	
DISCRIMINATION AND IDENTIFICATION OF TIME-DELAY REPEATER JAMMING AND TARGET ECHO BY BASIS PURSUIT	1309
<i>Liming Ding, Lingyan Dai, Rongfeng Li, Fengbo Chen, Yongliang Wang</i>	
SEA SURFACE MULTITARGET TRACK INITIATION FOR AIRBORNE RADAR	1313
<i>Hong Xu, Wenchong Xie, Fei Gao, Huadong Yuan, Yongliang Wang</i>	
ANGULAR RESOLUTION PERFORMANCE ANALYSIS FOR HF-MIMO RADAR	1317
<i>Baojun Dang, Qiang Yang, Weibo Deng</i>	
A METHOD AGAINST DRFM DENSE FALSE TARGET JAMMING BASED ON JAMMING RECOGNIZATION	1321
<i>Fengbo Chen, Rongfeng Li, Liming Ding, Luling Liu, Lingyan Dai, Gang Deng</i>	
RADIO INDIVIDUAL IDENTIFICATION VIA STABLE COMMUNICATION SIGNALS BASED ON SUBORDINATE COMPONENT ANALYSIS.....	1325
<i>Ligang Huang, Jingyi Yu, Zhen Shen, Jia Xu</i>	
A NOVEL METHOD OF OPTIMAL MULTI-AREA SEARCH FOR PHASED ARRAY RADAR.....	1329
<i>Wu Qi-Hua, Liu Jin, Zhao Feng, Ai Xiao-Feng, Wang Xue-Song</i>	
MODIFIED GLRT DETECTOR WITH LIMIT OF LOADED SAMPLE MATRIX INVERSION	1334
<i>H. Huang, T. Zhao, T. Y. Huang</i>	
ROAD AND VEHICLE DETECTION IN HIGHWAY SCENE FOR AUTOMOTIVE FMCW ANTENNA ARRAY RADAR.....	1339
<i>Yibo Zhang, Huadong Meng, Chenxi Hu, Yimin Liu, Zicheng Du</i>	
MEASUREMENT ESTIMATION IN FORWARD SCATTER RADAR WITH A PLANAR ARRAY	1344
<i>C. Liu, L. Wang, M. Wang, C. Hu</i>	
BACK LOBE REDUCTION OF PATCH ANTENNA BY USING HIGH-IMPEDANCE SURFACE.....	1350
<i>Dong Wang, Xing-Chang Wei, Jian-Bo Zhang, Yu-Fei Shu, De-Cao Yang</i>	
POLARIMETRIC SAR IMAGE CHANGE DETECTION BASED ON THREE-COMPONENT DECOMPOSITION	1354
<i>Sinong Quan, Boli Xiong, Lingjun Zhao, Gangyao Kuang, Siqian Zhang</i>	
A NEW TRACKING METHOD FOR HIGH DYNAMIC DS-SS SIGNAL	1359
<i>Zhan Yizhu, Ding Jiansong, Wu Wenyu, Hou Jiangang, Cui Wei</i>	
HIGH DYNAMIC CARRIER TRACKING TECHNOLOGY BASED ON KALMAN FILTER.....	1364
<i>Wu Wenyu, Chen Huatao, Zhuang Ting, Cui Wei</i>	
A NOVEL SINGULARITY SPECTRUM DISTRIBUTION OF RADAR SEA CLUTTER	1368
<i>Gang Xiong, Dongying Li, Wenxian Yu</i>	
DESIGN OF A UWB PLANAR QUASI MAGI-UDA ANTENNA ON S-C BAND	1372
<i>Yuxin Kou, Xuetian Wang, Chi Liu, Hongmin Gao</i>	
A NON-UNIFORM SAMPLE SELECTION STRATEGY IN THE APPLICATION OF AIRBORNE FORWARD-LOOKING RADAR	1376
<i>Lei Yu, Siyu Huang, Yinsheng Wei</i>	
HIGH RESOLUTION IMAGING ALGORITHM FOR MOVING SHIP BASED ON COMPRESSED SENSING	1381
<i>Zhang Lin, Jiang Yi-Cheng</i>	

A METHOD DEALING WITH COMPLEX PRI MODULATION WITH ADAPTIVE PREDICTION IN REAL-TIME PULSE TRACKING	1386
<i>Yantao Gao, Mao Tian</i>	
A 27.5-29GHZ SIW CROSS-COUPLING FILTER IN LTCC.....	1390
<i>Wen-Qiang Jia, Hong-Xi Yu</i>	
NUFFT-BASED PARAMETER ESTIMATION ALGORITHM FOR ISAR IMAGING OF TARGETS WITH COMPLEX MOTION.....	1394
<i>Q. Lv, T. Su, K. Wu</i>	
EFFICIENT DISTANCE ESTIMATION USING WRAPPED PHASE MEASUREMENTS.....	1399
<i>Wenchao Li, X. Wang, B. Moran</i>	
TARGET ASSOCIATION WITH FUZZY INFERENCE ON SATELLITE ELECTRONIC INFORMATION	1405
<i>X. Q. Zhong, H. X. Zou, L. Lei, Y. Q. Zhu</i>	
STUDY ON THE ECHO SIGNAL MODEL AND R-D IMAGING ALGORITHM FOR FMCW SAR.....	1411
<i>Bin Wang, Zhiyou Hu, Wenshuo Guan, Qingbao Liu, Junwei Guo</i>	
AN X-BAND CAVITY-BACKED SLOT ANTENNA USING A VIA-HOLE ABOVE THE SLOT	1417
<i>Zhao Jiafei, Wang Xuettian</i>	
HIGH FREQUENCY RADAR SIGNAL PROCESSING BASED ON THE PARALLEL TECHNIQUE.....	1421
<i>Chang Zhang, Qiang Yang, Weibo Deng</i>	
KA BAND-PASS FILTER BASED ON THE MICROSTRIP-GROOVE GAP WAVEGUIDE TECHNOLOGY	1425
<i>Fangfang Fan, Zehong Yan, Jinhui Wang, Xueyan Song</i>	
CLUTTER CANCELLATION ALGORITHM BASED ON SPARSE AUXILIARY ARRAYS.....	1429
<i>Zhang Yiyang, Deng Weibo, Dong Yingning, Zhang Xin</i>	
INFORMATIVE RADAR SELECTION FOR TRACKING IN RADAR NETWORKS.....	1434
<i>Xueting Li, Wei Yi, Tianxian Zhang, Guolong Cui, Lingjiang Kong, Xiaobo Yang</i>	
A RECOMMENDATION SCHEME BY USER PREFERENCE TO COMPONENTS	1440
<i>Zemeng Feng, Lifang Wu, Yuchen Jing, Dan Wang, Hongjia Zhang, Cheng Zhang</i>	
ADAPTIVE BEAMFORMING BASED ON COMPRESSED SENSING FOR HF SKY-SURFACE WAVE RADAR	1445
<i>Di Yao, Weibo Deng, Qiang Yang</i>	
POST-DBF JOINT DOMAIN LOCALISED RAPID PARALLEL IMPLEMENTATION FOR HFSWR BASE ON GPU.....	1449
<i>Xin Zhang, Qiang Yang, Chang Zhang, Weibo Deng</i>	
IMPROVEMENT OF COHERENT INTEGRATION WITH RANGE MIGRATION USING KEYSTONE FORMATION IN SPACE/GROUND MULTISTATIC RADAR.....	1453
<i>Lixiang Ma, Mingming Bian, Fan Zhang, Feifen Liu, Xiaomeng Dong, Shitao Wang</i>	
FPGA IMPLEMENTATION OF PWD GENERATOR FOR MULTI-CHANNEL INTERFEROMETER RADAR.....	1458
<i>Jing Wen, Lei Wang, Chunhong Zhang, Sisi Chen</i>	
THE ESTIMATION FOR THE DIRECTION OF ARRIVAL BASED ON SPARSE ARRAY	1463
<i>Deng Weibo, Hu Bin, Wu Xiaochuan</i>	
TIME AND FREQUENCY SYNCHRONIZATION OF BISTATIC FMCW RADAR.....	1467
<i>Junghoon Kim, Joohwan Chun, Ikhwan Choi</i>	
CS-CORR RANGE SUPER-RESOLUTION METHOD FOR STEPPED FREQUENCY HF RADAR SYSTEM.....	1471
<i>Qiushi Chen, Qiang Yang, Weibo Deng</i>	
DESIGN OF MULTI-FREQUENCY MINI-MISSILE WITH RCS ENHANCEMENT	1476
<i>Yi-Fan Jiang, Yong Liu, Hong-Da Lu, Yu-Meng Zhang, Xin Lv</i>	
3-D IMAGING OF SPACEBORNE DISTRIBUTED SAR BASED ON PHASE PRESERVING COMPRESSIVE SENSING.....	1479
<i>Wang Pengfei, Liu Mei, Wang Zhigui, Zhao Xiangyang, Chen Haiyang</i>	
A MULTIPATH EXPLOITATION TECHNIQUE FOR SAR IN STRONG POINT SCATTERING ENVIRONMENT	1483
<i>Jian Wang, Yanghuan Li, Qian Song, Zhimin Zhou</i>	
INTERFACE CONVERSION AND EXTENSION BASED ON FPGA IN HIGH-SPEED REAL- TIME SIGNAL PROCESSING SYSTEM	1488
<i>Hao Sun, Fang Chen, Shanqing Hu, Xingming Li, Yujie Sun</i>	
SPACEBORNE-AIRBORNE SAR INTERFEROMETRY BASED ON BP ALGORITHM.....	1493
<i>Xinxin Tang, Xiaoling Zhang, Shunjun Wei, Jianing Liu</i>	

DESIGN OF AN X-BAND DUAL CIRCULARLY POLARIZED OFFSET REFLECTOR ANTENNA	1498
<i>Yumeng Zhang, Yong Liu, Yifan Jiang, Wei Hou, Xin Lv</i>	
DOPPLER CENTROID BLOCK ESTIMATION FOR MULTI-CHANNEL IN AZIMUTH SAR.....	1502
<i>Liu Rang, He Feng, Sun Zao-Yu, He Zhi-Hua, Dong Zhen</i>	
CIRCULAR SAR OPTIMIZATION IMAGING METHOD ABOUT BUILDINGS BASED ON THE PRINCIPLE OF HIGH SNR	1507
<i>Jianfeng Wang, Yun Lin, Zhenyu Guo, Shenglong Guo, Wen Hong</i>	
CHANNELIZED DRFM FOR WIDEBAND SIGNALS	1513
<i>O. Ozdil, M. Ispir, I. E. Ortatatli, A. Yildirim</i>	
THE SOFTWARE PIPELINE REALIZATION OF CFAR BASED ON DSP	1518
<i>Ly Dong, Zhang Yaotian, Yang Bin, Wang Jun</i>	
KNOWLEDGE-AIDED SPACE-TIME ADAPTIVE PROCESSING BASED ON MORCHIN MODEL.....	1523
<i>Mingchi Xie, Wei Yi, Lingjiang Kong</i>	
DOUBLE CHANNELS DDC TO MULTI-FREQUENCY SATELLITE NAVIGATION SIGNALS.....	1529
<i>Leyang Sun, Kunming Zhang, Lei Zhang, Jian Li</i>	
ACCURATE GAIN CALIBRATION FOR A WR10 STANDARD GAIN HORN (SGH) USING THE THREE-ANTENNA EXTRAPOLATION TECHNIQUE	1535
<i>Zhenfei Song, D. Gentle, Haoyu Lin, Xiao Liu, Jinyuan Li</i>	
IMPACT OF T/R MODULE PERFORMANCE ON TRADEOFF DESIGN OF AIRBORNE AESA RADAR.....	1540
<i>Jie-Li Zhu, Hong-Yu Gu, Deng-Feng Zhang, Xiang Yang</i>	
LOWER IONOSPHERE NONLINEARITY STUDY ON HIGH FREQUENCY TIME SERVICE SIGNAL IN CHINA	1544
<i>B. X. Cao, Y. Han, N. Yu, H. J. Zhou</i>	
ADAPTIVE MCPC RADAR WAVEFORM DESIGN WITH IMPROVED WIDEBAND AMBIGUITY FUNCTION	1550
<i>Yang Xia, Zaiqi Lu, Hao Wu, Qiang Fu</i>	
COMPARISON OF DETECTABILITY OF RADAR WAVEFORMS USING A DIGITAL CHANNELIZED RECEIVER.....	1554
<i>G. H. Mi, T. Y. Huang, W. Rao</i>	
ELEVATION ANGLE ESTIMATION FOR LOW ALTITUDE TARGETS UNDER MULTI-PATH ENVIRONMENT	1560
<i>S. Akhavan, Y. Norouzi, H. Lolae</i>	
FRENCH HFSWR CONTRIBUTION TO THE EUROPEAN INTEGRATED MARITIME SURVEILLANCE SYSTEM I2C	1566
<i>F. Jangal, M. Menelle</i>	
EFFECTS OF CENTRE-BEAM APPROXIMATION ON AIRBORNE REPEAT-PASS INTERFEROMETRIC SAR	1571
<i>Yin-Wei Li, Qing Peng, Mao-Sheng Xiang, Wei-Wei Wei</i>	
DBS DOPPLER CENTROID ESTIMATION BASED ON MUTUAL INFORMATION MAXIMIZATION	1575
<i>Xiaojun Zhou, Yulin Huang, Wenchao Li, Zhongyu Li, Jianyu Yang</i>	
DISCONTINUOUS SPECTRA ORTHOGONAL DISCRETE FREQUENCY-CODING WAVEFORM SET DESIGN FOR MIMO SKY-WAVE RADAR.....	1581
<i>Xue Yong-Hua, Li Xiu-You, Sun Yan-Li, Guan Jian</i>	
REMOTE UPDATING FOR DSP AND FPGA PROGRAMS	1588
<i>Zhang Xin, Tang Lin-Bo, Ji Mei-Ping</i>	
GROUND MOVING TARGET DETECTION USING MONOPULSE-SAR.....	1592
<i>D. Wu, D. Zhu, M. Shen, X. Mao, Y. Li</i>	
NOVEL BAYESIAN ADAPTIVE DETECTOR AGAINST NON-GAUSSIAN CLUTTER.....	1596
<i>Miao Xubing, Jian Tao, He You, Ding Biao</i>	
PARAMETER ESTIMATION ALGORITHM MANEUVERING TARGETS.....	1600
<i>J. Tian, G. Yang, J. S. Ding, X. B. Feng, S. B. Dong</i>	
COMPRESSIVE SENSING DOA ESTIMATION FOR ACTIVE RADAR IN FORWARD-LOOKING DIRECTION.....	1605
<i>J. Wang, F. G. Yan, S. Liu, X. L. Qiao</i>	
GROUND-BASED SYNTHETIC APERTURE RADAR FOR VIBRATION AND DEFORMATION MONITORING IN CHINA	1609
<i>Y. Liu, C. Lee, Huang Yong, Lu Jia, Wang Youshi, L. Testa, S. Rodelsperger, S. Placidi</i>	

A NOVEL FREQUENCY DISCRIMINATION METHOD BASED ON ALL PHASE FFT FOR ANTI-TOWED DECOY	1614
<i>G. Yang, J. Tian, S. Wu, S. L. Wu</i>	
ANALYSIS OF LARGE WAVEGUIDE SLOTTED ANTENNA ARRAY USING SYMMETRY TECHNIQUES.....	1621
<i>Yanyan Li, Yong Wang, Yu Zhang</i>	
A SUBNANOSECOND PULSER AND A MONOPOLE ANTENNA DESIGN FOR UWB APPLICATIONS	1625
<i>Hongyan Liang, Zhiyou Hu, Yuying Lin, Jincan Du, Zeng Sun</i>	
PRELIMINARY STUDY OF STAP ON SPACEBORNE SPARSE ARRAY RADAR FOR AMTI.....	1629
<i>Xueyan Kang, Yunhua Zhang</i>	
EXPERIMENTAL INVESTIGATION OF A UWB DIRECT CHAOTIC THROUGH-WALL IMAGING RADAR USING COLPITTS OSCILLATOR	1633
<i>L. Liu, R. X. Ma, H. Xu, W. K. Wang, B. J. Wang, J. X. Li</i>	
HIGH ORDER NONCIRCULARITY RESTORAL DIAGONAL LOADING ROBUST ADAPTIVE BEAMFORMING: HNRDL	1639
<i>Yougen Xu, Bingjie Yin, Jingyan Ma, Zhiwen Liu</i>	
RADAR IMAGING BY A TOMOGRAPHIC TARGET DENSITY FUNCTION	1643
<i>A. Demirkol, R. F. Cinar, Z. Demir</i>	
DEFORMATION MONITORING IN SHANGHAI MAGLEV AREA	1646
<i>Lina Zhang, Jicang Wu, Jie Chen, Jingwen Zhao</i>	
ESTIMATION AND REMOVAL OF MULTIPLE SCATTERING CONTRIBUTIONS TO HF SURFACE WAVE RADAR ECHOES	1651
<i>S. J. Anderson</i>	
RF IMPERFECTIONS COMPENSATION FOR WAVELET-BASED MULTI-BAND SPECTRUM SENSING	1657
<i>Hangming Cao, Dong Wei, Rong Qiao, Pengbo Si, Lifang Wu</i>	
COMPARISON OF CSAR, E-CSAR AND PLANAR CIRCULAR ARRAY FOR 3-D IMAGING	1664
<i>J. Wang, H. Cetinkaya, A. G. Yarovoy</i>	
SYNTHETIC APERTURE RADAR OPERATION MODE RECOGNITION BASED ON TIME-FREQUENCY ANALYSIS	1669
<i>Ran Da, Jia Xin, Yin Canbin, Lao Guochao, Gao Yang</i>	
IMPLEMENTATION OF MEMORY ARCHITECTURE FOR REAL-TIME SPACEBORNE SAR IMAGING SYSTEM	1673
<i>Zhiliu Yang, Zhu Yang, Shan Dong, Liang Chen</i>	
A PC SOFTWARE DESIGN FOR MONITORING RECEIVER OF BEIDOU NAVIGATION SATELLITE SYSTEM	1678
<i>Yiran Luo, Lei Zhang, Jian Li</i>	
RADAR AND PHASED-ARRAY BREAKTHROUGHS: AN UPDATE	1684
<i>E. Brookner</i>	
COMPARISON BETWEEN SRTM-C DEM AND ICESAT ELEVATION DATA IN THE ARID KUFRAH AREA.....	1692
<i>R. Wang, J. P. Muller, C. Hu, T. Zeng</i>	
BISTATIC HIGH-RANGE RESOLUTION PROFILES OF WOBBLING TARGETS	1696
<i>Ai Xiaofeng, Wang Liandong, Wang Manxi, Zeng Yonghu</i>	
FEATURE EXTRACTION OF TARGET IN WIDEBAND BISTATIC RADAR	1700
<i>Ai Xiaofeng, Liu Jin, Zhao Feng, Yang Jianhua</i>	
A SPARSE CONSTRAINT BEAMFORMER BASED MVPS USING POLARIZATION SENSITIVE ARRAY.....	1704
<i>H. Chen, H. Z. Shao, W. Q. Wang</i>	
DESIGN OF OVER-TWO-OCTAVE BANDWIDTH ANTIPODAL VIVALDI ANTENNA	1710
<i>Zheng-Yang Sun, Yong Liu, Yi-Fan Jiang, Wei Hou, Hong-Da Lu, Peng-Fei Zhao, Xin Lv</i>	
IMPLEMENTATION ON FPGA FOR CORDIC-BASED COMPUTATION OF ARCSINE AND ARCCOSINE	1714
<i>Xiaoning Liu, Yizhuang Xie, He Chen, Bingyi Li</i>	
DESIGN OF A CONFIGURABLE FIXED-POINT FFT PROCESSOR.....	1718
<i>Chen Yang, Yi-Zhuang Xie, Liang Chen, He Chen, Yi Deng</i>	
IMPLEMENT AND COMPARISON OF DECHIRP AND MATCHED FILTER PROCESSING BASED ON FPGA	1722
<i>Wang Junkai, Wei Shaoming, Yang Bin</i>	

IMPROVING TROPICAL DEFORESTATION DETECTION BY FUSING MULTIPLE SAR CHANGE MEASURES.....	1726
<i>Xichao Dong, Shaun Quegan, Wei Liu, Kai Cui, Xin Lv</i>	
METHODS TO IMPROVE SYSTEM VERIFICATION EFFICIENCY IN FPGA-BASED SPACEBORNE SAR IMAGE PROCESSING SYSTEM	1731
<i>Zhu Yang, Teng Long</i>	

VOLUME 3

ADAPTIVE BEAMFORMING TECHNIQUE BASED ON COMPRESSED SENSING IN MULTI-CARRIER FREQUENCY MIMO HFSWR.....	1736
<i>Aihua Liu, Qiang Yang, Weibo Deng</i>	
A NOVEL WATERSHED SEGMENTATION METHOD FOR SAR IMAGE.....	1741
<i>Jinjing Shen, Long Ma, Liang Chen, He Chen, Ying Yu</i>	
THROUGH-WALL IMAGING BY TE AND TM HYBRID POLARIZATION INVERSION BASED ON FDFD AND FREQUENCY HOPPING SCHEME	1746
<i>Shilong Sun, B. J. Kooij, Tian Jin, A. Yarovoy</i>	
MIMO RADARS AND THEIR CONVENTIONAL EQUIVALENTS - AN UPDATE	1750
<i>E. Brookner</i>	
MISMATCH ANALYSES OF WIDEBAND RADAR TARGET DETECTION.....	1758
<i>T. Jian, Y. Liu, L. N. Pan, G. S. Liao</i>	
THE DESIGN OF FREQUENCY AND TIMING OFFSET TRACKING LOOP IN OFDM SYSTEMS	1762
<i>Ma Rui, Wang Jun, Tian Yafei, Wei Shaoming</i>	
THE IMPLEMENT OF SPACEBORNE SAR IMAGING SYSTEM.....	1768
<i>Li Yan, Zhao Boya, Chen Liang, Chen He, Wang Tao</i>	
OBJECT CLASSIFICATION OF REMOTE SENSING IMAGES BASED ON BOV	1772
<i>Zhao Boya, Shi Hao, Chen Liang, Chen He, Bi Fukun</i>	
ADJUSTMENT FOR AMPLITUDE AND PHASE MISMATCH OF I/Q CHANNELS.....	1777
<i>Zhang Kunming, Zhou Yang, Zhou Leichen, Sun Leyang</i>	
DESIGN AND IMPLEMENTATION OF ASIC VERIFICATION PLATFORM FOR THE SAR ALGORITHM	1782
<i>Zhubin Wang, Chen Yang, He Chen, Yu Xie</i>	
HIGHER ORDER SHIFT OPERATER FDTD SCHEME FOR SCATTERING OF CLOAKING STRUCTURE	1787
<i>Xia Ai, Shengjun Zhang, Mingliang Wang, Weidong Wang, Jiaqi Liu, Chengguo Liu, Xuemei Liu</i>	
DISPERSIVE FDTD SCHEME WITH CONFORMAL TECHNOLOGY FOR ANALYZING ELECTROMAGNETIC SCATTERING OF INHOMOGENEOUS PLASMA ARRAY	1792
<i>Xia Ai, Shendong Liu, Shengjun Zhang, Mingliang Wang, Jiaqi Liu, Gang Meng, Hongchao Zhou</i>	
RESEARCH ON THE EXTRACTION METHOD FOR WIDEBAND RADAR TARGET POLARIZATION FEATURES.....	1797
<i>Qing-Yu Dong, Zhang-Feng Li, Guo-Qiang Zhao, Yi Zhang</i>	
SUPER SCALE PARALLEL HIGHER-ORDER MOM SIMULATION USING 150 THOUSANDS CPU CORES	1801
<i>Yan Chen, Yu Zhang, Xunwang Zhao, Zhongchao Lin</i>	
ADAPTIVE RESOURCE MANAGEMENT BASED ON TARGET PRIORITY IN THE RADAR NETWORKS.....	1804
<i>Xueting Li, Wei Yi, Tianxian Zhang, Guolong Cui, Lingjiang Kong, Xiaobo Yang</i>	
BUILDING LAYOUT IMAGING IN THROUGH-THE-WALL MIMO APPLICATIONS.....	1810
<i>Lu Biying, Jin Tian, Wang Wu, Sun Xin, Zhou Zhimin</i>	
CHANGE DETECTION IN OPTICAL REMOTE SENSING IMAGES BASED ON WATERSHED SEGMENTATION	1815
<i>Zhihong Mai, Hao Shi, Yizhuang Xie, Long Ma</i>	
EFFECTS OF VIBRATION ON COHERENT HOMODYNE RADARS.....	1820
<i>U. Yilmaz</i>	
THE RESEARCH ON THE EFFECTS OF AN ACTIVE FSS WITH CIRCLE ELEMENT ON THE CHARACTERISTICS OF RADAR ABSORBING MATERIALS	1827
<i>Wang Ming-Liang, Zhang Sheng-Jun, Liu Jia-Qi, Wang Wei-Dong</i>	
A FULLY COHERENT MOTION COMPENSATION METHOD OF ISAR IMAGING BASED ON SYNTHETIC WIDEBAND PD RADAR.....	1831
<i>Fan Hua-Yu, Ren Li-Xiang, Zhang Kang, Mao Er-Ke</i>	

A NEW CHANNEL BALANCING ALGORITHM IN IMAGE DOMAIN FOR MULTICHANNEL SAR-GMTI SYSTEM	1836
<i>Zuzhen Huang, Jia Xu, Shibao Peng, Zhirui Wang</i>	
EXPERIMENTAL RESULTS AND ANALYSIS FOR GBSAR DEFORMATION MEASUREMENT	1841
<i>Zhu Mao, Hu Cheng, Zeng Tao, Deng Yunkai, Tian Weiming, Mao Cong</i>	
IMPACT OF THE TIME-SPATIAL BACKGROUND IONOSPHERE VARIATION ON GEOSYNCHRONOUS SAR INTERFEROMETRIC PHASE SCREEN.....	1845
<i>Yuanhao Li, Cheng Hu, Shaoyang Kong, Xichao Dong, Dongyang Ao, Teng Long</i>	
IMPROVING PERFORMANCE OF AN FMCW RADAR IN RAIN AND SEA CLUTTER BY STATISTICAL DITHERING	1850
<i>A. Hizal</i>	
DESIGN OF A LARGE POINT FFT PROCESSOR WITH CONFIGURABLE TRANSFORM LENGTH	1855
<i>Yu Xie, Yang-Kai Feng, Chen Yang, Yi-Zhuang Xie, He Chen</i>	
SELF-CALIBRATION FOR THE MULTIPLE CHANNEL PHASE ARRAY SYSTEM BASED ON NEAR-FIELD WEIGHTING	1860
<i>Kai Jing, Congxin Li, Lei Cui, Di Yao</i>	
FM-CW SIGNAL PHASE ERROR ANALYSIS AND COMPENSATION.....	1866
<i>Y. Deng, X. Guo, R. Wang, C. Hu, T. Zeng</i>	
A NOVEL METHOD FOR ESTIMATION OF THE TARGET ROTATION ANGLE IN SAR IMAGE	1870
<i>Yun Zhang, Yuan Zhuang, Hongzhi Li, Xu Zhang, Xiaohui Zhao</i>	
LAYERED-MEDIUM TIME DELAY ESTIMATION OF GPR RETURNS BASED ON SPARSITY CONSTRAINT.....	1874
<i>Huilin Zhou, Qingyu Chen, Yuhao Wang, Rongxing Duan</i>	
VIRTUAL MULTI-VIEWS METHOD FOR THROUGH-WALL RADAR IMAGING BASED ON GREEN FUNCTION.....	1878
<i>Huilin Zhou, Yongfang He, Yuhao Wang, Rongxing Duan</i>	
PULSE DEINTERLEAVING USING ISOMORPHIC SUBSEQUENCES	1883
<i>J. Cao, F. Li, F. W. Yang, L. X. Ren</i>	
PERFORMANCE ASSESSMENT FOR GEOMETRIC-BASED COVARIANCE ESTIMATION IN HETEROGENEOUS CLUTTER.....	1887
<i>Guolong Cui, Na Li, Lingjiang Kong, Xiaobo Yang</i>	
RCS ANALYSIS OF DISK TARGET COVERED WITH NON-UNIFORM PLASMA	1892
<i>Runhui Wu, Jiaqi Liu, Xin Liu, Gang Meng, Aimin Ren, Zhaohui Qi</i>	
TOA ESTIMATION FOR UNKNONWN SIGNAL UNDER LOW SNR CONDITION BASED ON ACCUMULATION	1897
<i>J. C. Xu, L. X. Ren, Z. Y. Jiang, E. K. Mao</i>	
A HYBRID MICROWAVE IMAGING SCHEME BASED ON SYNTHETIC APERTURE SYSTEM AND WAVEFRONT MODULATION	1901
<i>Linjian Zhang, Qianrong Lu, Kaizhi Wang, Xingzhao Liu</i>	
LABELED PARTICLE UNRESOLVED TARGET PHD FILTER FOR MULTIPLE GROUP TARGET TRACKING	1905
<i>Yunxiang Li, Huaitie Xiao, Hao Wu, Rui Hu, Qiang Fu</i>	
WAVEFORM DESIGN FOR MIMO RADAR WITH SPARSE ANTENNA ARRAY	1910
<i>Zhi-Kun Chen, Jun Wang, Xiao-Lin Qiao, Min Yan</i>	
SPATIAL POLARIZATION CHARACTERISTIC ANALYSIS OF MONOPULSE RADAR SEEKER ANTENNA	1915
<i>Zhou Bo, Dai Huanyao, Wang Zheng, Mo Cuiqiong, W. Jianlu</i>	
COHERENT VIDEO MODELING OF PULSED DOPPLER RADAR SEEKER FOR 6-DOF SIMULATION.....	1921
<i>Qiuju Chen, Cuiqiong Mo, Huanyao Dai, Zheng Wang, Jing Zhao</i>	
PLANE DETECTOR BASED ON P-N LEARNING STRUCTURE FOR VIDEO SATELLITE	1925
<i>Fuqiang Liu, Fukun Bi, Liang Chen, Hang Wei, Jing Chen</i>	
BISTATIC 3D INTERFEROMETRIC ISAR PHASE UNWRAPPING	1929
<i>Xu Cheng-Fa, Zhao Li-Zhi, Lin Li-Xin</i>	
AN OPTIMIZATION ALGORITHM BASED ON BI-SIFT FOR SAR IMAGE REGISTRATION	1933
<i>Fuqiang Liu, Fukun Bi, Liang Chen, Hang Wei, Wenjie Tie</i>	
THE METHOD OF MULTI-CHANNEL PHASED ARRAY RADAR SQUINT SAR SYSTEM DESIGN.....	1938
<i>Lei Cui, Jing Gao, Zixiao Wang, Di Yao</i>	

ADVANCED DOHERTY AMPLIFIER FOR PARALLEL AMPLIFICATION	1942
<i>S. Chen, Q. Xue, G. Wang</i>	
ACCURATE NON-CONTACT VIBRATION AMPLITUDE RETRIEVAL USING LEAST SQUARES ESTIMATION	1946
<i>C. Hu, A. Li, R. Wang, T. Zeng, W. Liu</i>	
MOVING OBJECT DETECTION AND TRACKING BASED ON ZYNQ FPGA AND ARM SOC	1950
<i>Wenchao Liu, He Chen, Long Ma</i>	
ISAR TARGET MICRO-DOPPLER FEATURE EXTRACTION AND RECOGNITION METHOD BASED ON PCA AND ICA	1954
<i>Bai Jinliang, Jiang Zhiye, Liu Jiaqi, Gao Lu, Liu Hongyan, Xu Feng, Qin Peng, Li Hu, Chen Shuyuan, Liu Shengdong</i>	
THE SQUINTEED-LOOKING SAR REAL-TIME IMAGING BASED ON MULTI-CORE DSP	1958
<i>Congxin Li, Long Jie, Lei Cui, Di Yao</i>	
UNSUPERVISED SAR CHANGE DETECTION BASED ON A NEW STATISTICAL MODEL	1962
<i>Y. C. Liu, G. X. Wang, P. Li, X. P. Yan</i>	
STUDY OF RF STRUCTURE FOR W BAND SHEET BEAM EIK	1966
<i>Shuyuan Chen, Zhiye Jiang, Jiaqi Liu, Lu Gao, Jingliang Bai, Hongyan Liu, Gang Meng, Feng Xu, Hu Li, Chengguo Liu, Guangsheng Zhu</i>	
X-BAND NARROWBAND HIGH-TEMPERATURE SUPER-CONDUCTING FILTER WITH HIGH SELECTIVITY	1970
<i>L. Gao, Z. Y. Jiang, J. Q. Liu, H. Y. Liu, J. L. Bai, F. Xu, H. Li, S. Y. Chen, L. Sun, Y. B. Bian, J. Wang, Y. S. He</i>	
FAST CHIRP FMCW RADAR IN AUTOMOTIVE APPLICATIONS	1975
<i>Ziqiang Tong, R. Reuter, M. Fujimoto</i>	
COMMUNICATION PERFORMANCE OPTIMIZATION OF SPACEBORNE/AIRBORNE RADAR NETWORKS	1979
<i>Li Hu, Gao Lu, Liu Jiaqi, Liu Hongyan, Jiang Zhiye, Bai Jinliang, Xu Feng, Chen Shuyuan, Liu Shengdong, Zhu Guangsheng, Liu Xuemei</i>	
APPROACH TO DOA ESTIMATION OF UNCOMPLETELY POLARIZED SIGNAL BASED ON BTD MODEL	1986
<i>Wei Han, Xue Ke Ding, Lin Zou, Guan Gui, Qun Wan</i>	
A DECOMPOSITION-BASED SENSOR SCHEDULING PROCEDURE IN RADAR NETWORKS	1990
<i>Y. Zuo, D. X. Yin, A. K. Xue, D. L. Peng, Y. Gu</i>	
SHIP TARGET DETECTION IN SEA CLUTTER OF HFSWR BASED ON SPATIAL BLIND FILTERING	1994
<i>Wang Yi-Ming, Mao Xing-Peng, Zhang Jie, Ji Yong-Gang</i>	
MODIFIED RAO TEST FOR ADAPTIVE SUBSPACE DETECTION	1999
<i>Jun Liu, Hong-Yan Zhao, Weijian Liu</i>	
AN EFFECTIVE FALSE-ALARM REMOVAL METHOD BASED ON OC-SVM FOR SAR SHIP DETECTION	2004
<i>Xiaoting Yang, Fukun Bi, Ying Yu, Liang Chen</i>	
FIXED-POINT SIMULATION TECHNOLOGY FOR SAR REAL-TIME IMAGING SYSTEM	2008
<i>Xin Zhou, Yi-Zhuang Xie, Chen Yang, Qing Du, Yi Deng</i>	
EXPERIMENTAL VALIDATION FOR IMPACTS OF TEMPORAL-SPATIAL VARIANT IONOSPHERE ON GEO SAR USING GNSS SATELLITE SIGNALS	2013
<i>Xichao Dong, Cheng Hu, Dandan Zhang, Weiming Tian, Ye Tian, Teng Long</i>	
ANALYSIS OF BACKGROUND IONOSPHERIC EFFECTS ON LOW FREQUENCY REPEAT-PASS INSAR SYSTEM	2018
<i>Xiaodong Zhu, Qilei Zhang, Yongsheng Zhang, Zhen Dong</i>	
SAR IMAGE QUALITY ASSESSMENT AND INDICATORS FOR AIRPORT DETECTION	2023
<i>Xin Lin, Kaizhi Wang, Junfeng Wang, Xingzhao Liu</i>	
FREQUENCY ESTIMATION OF CYCLIC SPECTRUM CARRIER BASED ON COMPRESSIVE SAMPLING OF BPSK SIGNAL	2027
<i>Xun Huang, Qi Zhao, Weiming Jiang, Lin Zou, Guan Gui, Qun Wan</i>	
UKF ALGORITHM BASED ON OPTIMIZED WEIGHTING DATA FUSION	2031
<i>Ning Hai, Qi Zhao, Qun Wan</i>	
WATER BODY EXTRACTION BASED ON THE LBV TRANSFORMATION ANALYSIS FOR CHINA GF-1 MULTI-SPECTRAL IMAGES	2035
<i>Hang Wei, Fukun Bi, Fuqiang Liu, Wenchao Liu, He Chen, Ying Yu</i>	
A HIERARCHICAL METHOD FOR ACCURATE WATER REGION DETECTION IN SAR IMAGES	2040
<i>Fukun Bi, Jing Chen, Hang Wei, Yun Zhao</i>	

AN ITERATIVE OPTIMIZATION FOR MUTUAL COUPLING CORRECTION OF UCA WITH SINGLE SNAPSHOT	2044
<i>Yuguan Hou, Qingguo Jin, Xi Chen</i>	
DUAL POLARIZATION UPGRADE AND IDENTITY EVALUATION OF SHANGHAI WEATHER RADAR	2049
<i>Chunguang Yin, R. W. Macemon, Yadong Wang, Haojun Chen, Hao Xue</i>	
ADAPTIVE FREQUENCY DOMAIN IMAGING ALGORITHM IN GEOSYNCHRONOUS SAR	2056
<i>Ye Tian, Cheng Hu, Qian He, Xichao Dong, Teng Long, Tao Zeng</i>	
IMPROVED SLANT RANGE MODEL AND IMAGING METHOD FOR GEOSYNCHRONOUS SAR	2060
<i>Zhuoqun Wang, Yicheng Jiang, Yun Zhang</i>	
REARCH ON DIGITAL COMPENSATION TECHNOLOGY OF WIDEBAND PHASED ARRAY RADAR BASED ON CHIRP SIGNAL	2065
<i>Liu Haibo, E. Wang, Li Jinbing, Ren Xiaoyuan</i>	
A NOVEL PS POINTS' ASSOCIATION METHOD BASED ON SLIDING-TYPE SCATTERING CENTER FOR BISTATIC/ MULTISTATIC SAR	2070
<i>Jingyang Wang, Tao Zeng, Yin Xiang, Cheng Hu</i>	
ANALYSIS OF THE KEY TECHNOLOGY OF AIRBORNE ANTENNA AND FEED EQUIPMENT UNDER COMPLICATED CONDITIONS	2074
<i>Li Xinji, Peng Yun, Wang Xuan, Wang Suixue</i>	
LOW RANK RECONSTRUCTION ALGORITHM FOR GROUND PENETRATING RADAR LINEAR INVERSE IMAGING	2082
<i>Huilin Zhou, Zhongnian Mo, Yuhao Wang, Rongxing Duan</i>	
CONSIDERATIONS OF DESIGNING P-BAND SPACE-BORNED BISTATIC RADAR SYSTEMS	2086
<i>Li Yuanyuan, Guo Xin, Liu Feifeng</i>	
A HIGH RESOLUTION MEDIUM PENETRATING IMAGING RADAR SYSTEM	2090
<i>Ren Xiao-Yuan, Liu Hai-Bo, Li Jin-Bing</i>	
INFRARED TARGET DETECTING AND TRACKING BASED ON SOPC	2095
<i>Ji Meiping, Deng Chenwei, Tang Linbo, Ge Shanshan, Li Shuling</i>	
ADAPTIVE IMAGE COMPRESSION SYSTEM BASED ON TMS320C6713	2099
<i>Li Shuling, Zhao Baojun, Tang Linbo, Ji Meiping</i>	
PERFORMANCE ANALYSIS OF JOINT PARAMETER ESTIMATION FOR DISTRIBUTED RADAR NETWORKS UNDER A GENERAL MODEL	2104
<i>Jianbin Hu, Qian He, R. S. Blum, Yonggang Wu</i>	
MOVING TARGET LOCATION BY LOW FREQUENCY SINGLE-CHANNEL SAR	2109
<i>Chongyi Fan, Sudan Han, Dong Feng</i>	
GROUND-BASED SAR IMAGING ALGORITHM BASED ON KEYSTONE FORMATTING	2114
<i>Cong Mao, Qian He, Weiming Tian, Cheng Hu, Tao Zeng</i>	
MOVING TARGETS DETECTION AND TRACKING UNDER DYNAMIC BACKGROUND BASED ON MULTICORE TMS320C6678	2119
<i>Shanshan Ge, Baojun Zhao, Shuigen Wang, Meiping Ji</i>	
SUBDOMAIN CLUTTER REDUCTION METHOD FOR IMAGING NEAR SURFACE TARGET	2125
<i>Meng Zheng, Wei Liu, Yin Xiang, Zegang Ding, Tao Zeng, Xun Wang</i>	
MODIFIED KEYSTONE PROCESSING ALGORITHM FOR THE SPACE-BASED BISTATIC RADAR SYSTEMS	2129
<i>Feng Wenling, Wei Wei, Liu Feifeng</i>	
CONTEXT SEGMENTATION OF OCEANIC SAR IMAGES: APPLICATION TO OIL SPILL DETECTION	2135
<i>Yin Zhuang, He Chen, Fukun Bi, Long Ma</i>	
AN OPTIMIZED WATER DETECTION ALGORITHM FOR SAR IMAGES UTILIZING SOPC TECHNOLOGIES	2140
<i>Yan Liu, Lin Li, Yizhuang Xie, Liang Chen, Yi Deng</i>	
AN IMPROVED DEM RECONSTRUCTION METHOD BASED ON SHORTEST SUB-INTERVAL IN MF-INSAR	2144
<i>Tiandong Liu, Shiqi Ge, Zegang Ding, Qi Zhang, Teng Long</i>	
RESEARCH ON THE PERFORMANCE EVALUATION METHOD OF GPR CLUTTER SUPPRESSION	2149
<i>Wang Xun, Li Jinbing, Ren Xiaoyuan, Liu Haibo</i>	
SAR IMAGE EDGE DETECTION BASED ON FUZZY THEORY AND INFORMATION FUSION	2154
<i>Lei Jiang, Xianqing Ling, Jian Geng, Yongsheng Cheng</i>	

COMPARISON BETWEEN MONOSTATIC AND BISTATIC SAR IMAGE BASED ON SPATIAL SPECTRUM ANALYSIS	2161
<i>Zeng Tao, Ao Dongyang, Hu Cheng, Li Yuanhao, Xiang Yin</i>	
A SELECTION METHOD OF FREQUENCY COMBINATION IN MF-INSAR SYSTEM	2167
<i>Yalin Qi, Qi Zhang, Wenfu Yang, Shuangjing Yang, Tiandong Liu</i>	
ANTENNA PATTERN RESTORATION USING HILBERT TRANSFORM	2172
<i>Jinhwan Koh, Junghwan Jeon, Sangbae Jung</i>	
AN AZIMUTH WEIGHTINGMETHOD OF SLIDESPOTLIGHT SAR BASED ON SUBAPERTURE CHIRP SCALING ALGORITHM	2177
<i>Bozheng Shu, Yinhui Xu, Zegang Ding, Yu Zhu</i>	
A COMPENSATED METHOD FOR GEO SAR ATTITUDE TREMBLING BASED ON MINIMUM ENTROPY	2182
<i>Bin Xiong, Bozheng Shu, Zegang Ding, Qingjun Zhang</i>	
TEXTURE-BASED URBAN DETECTION USING CONTOURLET COEFFICIENT ON REMOTE SENSING IMAGERY	2187
<i>Cheng Li, Zhaofeng Pang, Baojun Zhao, Shuigen Wang</i>	
PHASE ERROR ANALYSIS AND ESTIMATION AMONG DIFFERENT SUB-CHANNELS IN MULTICHANNEL SPACE-BORNE SAR	2193
<i>Z. Wang, X. Liao, D. B. Feng, Z. G. Ding</i>	
PULSE REPETITION FREQUENCY DESIGN FOR GEOSYNCHRONOUS SAR IN ELLIPTICAL ORBIT	2198
<i>Wei Yin, Wenfu Yang, Zegang Ding, Wei Liu, Qingjun Zhang, Jingjing Ren</i>	
A FAST SAR RAW DATA SIMULATION ALGORITHM BASED ON DATA CORRECTION USING CHIRP SCALING ALGORITHM	2203
<i>Q. Gao, Y. H. Xu, T. Zeng, Z. G. Ding</i>	
THREE-DIMENSIONAL EXTENSIONS OF MATRIX COMPLETION BASED MIMO RADAR	2207
<i>N. Zhang, C. L. Xie, J. Tang, N. T. Jiang</i>	
THE GUIDED IMAGE FILTERING FOR SPECKLE REDUCTION IN SAR IMAGES	2213
<i>Hao Shi, Liang Chen, Zhi-Hong Mai, He Chen, Fu-Kun Bi</i>	
RESEARCH ON ECHO SIMULATION OF GEOSYNCHRONOUS SAR	2217
<i>Xiaobei Wang, Yinhui Xu, Zegang Ding, Wei Liu, Yu Zhu, Qingjun Zhang</i>	
A MODIFIED SPECAN ALGORITHM BASED ON CHIRP SCALING PRINCIPLE	2222
<i>Zhou Zhichao, Yang Wenfu, Feng Dongbo, Ding Zegang, Zeng Tao</i>	
AN INITIALIZATION CLUSTERING METHOD FOR SMC-PHD BASED ON LIKELIHOOD FUNCTION	2227
<i>Xu Cong'An, Jian Tao, Dong Kai, Qi Lin, He You</i>	
A NOVEL SUBSIDENCE MONITORING APPROACH BASED ON MULTI-GNSS ILLUMINATOR BISTATIC INTERFEROMETRY	2231
<i>T. Zeng, W. M. Tian, T. Zhang, C. Hu</i>	
AN AUTOFOCUSING IMAGING ALGORITHM FOR WALL PENETRATING SAR	2237
<i>Wei Liu, Meng Zheng, Yin Xiang, Zegang Ding, Tao Zeng</i>	
ESTIMATION METHOD OF COHERENT EFFICIENCY OF DISTRIBUTED COHERENT APERTURE RADAR BASED ON CROSS-CORRELATION	2242
<i>Pilei Yin, Wen Yin, Hui Li, Zhennan Liang, Zhengcheng Liu, Quanhua Liu</i>	
HIGH RANGE RESOLUTION PROCESSING BASED ON MULTI-BAND BEIDOU-2 DIRECT SIGNALS	2247
<i>Tao Zeng, Weiming Tian, Jingyang Wang, Tian Zhang</i>	
DESIGN AND REALIZATION OF DRFM SYSTEM BASED ON FPGA AND DSP	2251
<i>Min Xie, Jiazhi Huang, Yuansong Jiang, Xiongjun Fu</i>	
RANDOM CARRIER-FREQUENCY RADON-FOURIER TRANSFORM FOR RADAR TARGET DETECTION	2257
<i>Q. Kang, J. Xu, L. C. Qian, Ming-Ming Bian</i>	
RESEARCH ON ANGLE GLINT SUPPRESSION TECHNIQUE FOR VARIABLE-POLARIZATION HIGH RESOLUTION RADAR	2262
<i>Bai Jian, Zhang Yong Jie</i>	
PRECISION MEASUREMENT OF UWB RADAR SIGNAL AND HIGH-SPEED IMPLEMENTATION	2266
<i>Haiqing Jiang, Ying Liu</i>	
A NEW WAVEFORM DESIGN METHOD FOR PHASE-MODULATED PRC-CW RADAR	2271
<i>Chunxia Du, Chengfa Xu, Youming Ma</i>	

SPATIAL-TEMPORAL HETEROGENEITY OF LAND SUBSIDENCE EVOLUTION IN BEIJING BASED ON INSAR AND CLUSTER ANALYSIS	2275
<i>Yingchen Li, Yinghai Ke</i>	
A QUASI-GEOSTATIONARY SAR: BENEFITS AND CHALLENGES	2280
<i>A. M. Guarnieri, A. Leanza, A. Recchia, F. Rocca</i>	
SUBMILLIMETRIC MOTION DETECTION WITH A 94 GHZ GROUND BASED SYNTHETIC APERTURE RADAR.....	2283
<i>A. Martinez, M. Lort, A. Aguasca, A. Broquetas</i>	
A NEW RECONFIGURABLE METHODOLOGY TO IMPLEMENT THE SHIFT- AND- CORRELATE (SAC) ALGORITHM FOR REAL-TIME SAR AUTOFOCUSING.....	2288
<i>Bingyi Li, Yizhuang Xie, Xiaoning Liu, Yi Deng</i>	
REGION OF INTERESTS EXTRACTION BASED ON VISUAL SALIENCY FOR REMOTE SENSING IMAGE.....	2294
<i>Long Ma, Bin Xu, Fukun Bi, He Chen, Ying Yu</i>	
DETECTION METHOD FOR ACTIVE FALSE-TARGET BASED ON DIFFERENCES OF POLARIMATRIC FREQUENCY RESPONSE	2298
<i>Z. W. Zong, Y. L. Chang, L. F. Shi, X. S. Wang</i>	
DESIGN AND SENSITIVITY ANALYSIS OF CHINA'S FIRST KA-BAND AIRBORNE PRECIPITATION RADAR.....	2302
<i>Wei Xiang, Chonghui Zhao, Aihua Li, Zhaoyang Li, Haihan Wu, Yiwen Liu, Guangbin Cui</i>	
MILLIMETER WAVE PASSIVE IMAGING SYSTEM USING REFLECTOR ANTENNA.....	2306
<i>Cui Guangbin, Zhao Chonghui, Wu Haihan, Xiang Wei, Li Zhaoyang</i>	
A CYLINDRICAL CONFORMAL MONOPULSE PHASED ARRAY ANTENNA	2311
<i>Guo Bin-Xing, Gao Zi-Yang, Wang Jie, Su Hong-Yan</i>	
RESEARCH ON BP IMAGING ALGORITHM PARALLELIZATION USING C6678 DSPS	2315
<i>Jiayun Zhao, Yuan Yuan, Jinghua Wang, Ye Jin</i>	
THE SPACEBORNE SUBSURFACE SOUNDING RADAR TECHNOLOGY	2319
<i>Zhaoyang Li, Yiwen Liu, Haihan Wu, Danru Yu</i>	
A TRACKING ALGORITHM BASED ON ASSOCIATION PROBABILITY FOR RADAR AGAINST DECEPTIVE CHAFF	2323
<i>Zhou Ruixue, Liu Hengze, Zhao Yue</i>	
MOTION ESTIMATION OF MICRO-MOTION TARGETS WITH TRANSLATIONAL MOTION	2327
<i>Liu Jin, Ai Xiaofeng, Zhao Feng, Wu Qihua</i>	
CALCULATE THE POLARIZED SCATTERING PROPERTIES OF CANTED RAIN MEDIA WITH M-P DSD USING EXTENDED MIE SCATTERING METHOD	2332
<i>Haijun Wang, Jianbing Li, Tao Wang, Xuesong Wang</i>	
TARGET LOCATION BASED ON QUASI-NEWTON ALGORITHM IN MULTISTATIC PASSIVE RADAR.....	2337
<i>Y. Feng, H. Y. Sun, D. L. Liu, Y. H. Ma</i>	
SEGMENTATION OF OIL SPILLS IN SAR IMAGE BASED ON IMPROVED CV MODEL	2343
<i>Wenjie Tie, Chonglei Wang, Fukun Bi, Hao Shi, Xu Zhang, He Chen</i>	
RELATIVE RADIOMETRIC CORRECTION FOR REMOTE SENSING IMAGES BASED ON VIVADO HLS.....	2347
<i>Zeng-Zeng Jia, Bao-Gui Qi, Liang Chen, He Chen, Long Ma</i>	
RESEARCH ON AMPLITUDE-PHASE ERROR FOR LFM CW RADAR.....	2351
<i>Maokui Mei, Weiming Tian, Lilei Yin, Tao Zeng</i>	
A REAL-TIME PROCESSING SYSTEM FOR AIRBORNE FORWARD-SQUINT SAR BASED ON DSP	2355
<i>Ningyu Zhang, Di Yao, Congxin Li, Kai Jing</i>	
A NEW REGION GROWING BASED METHOD FOR SHIP DETECTION IN HIGH- RESOLUTION SAR IMAGES.....	2360
<i>Chonglei Wang, Chen Li, Fukun Bi, Liang Chen</i>	
IMPROVED SPECAN ALGORITHM BASED ON DOPPLER RATE EQUALIZATION.....	2365
<i>Y. Li, Z. Ding, T. Long</i>	
STRATEGY OF SPECTRUM RECONSTRUCTION IN STEPPED-FREQUENCY SAR IMAGING.....	2370
<i>Wenbin Gao, Yansu Guo, Luosi Liu, Zegang Ding</i>	
DESIGN AND REALIZATION OF DIGITAL BEAMFORMING TECHNIQUE FOR NEXT GENERATION PHASED ARRAY RADAR SEEKER	2375
<i>Xinzhu Chen, Ting Shu, Kejun Yin, Fei Huang, Wenxian Yu</i>	
DESIGN OF C/KA DUAL-BAND WIDEBAND AND WIDE-ANGLE SCANNING MULTIFUNCTION PHASED ARRAY	2379
<i>Bin Tang, Shenghong Wu, Wenxian Yu</i>	

A MINIMUM GEOMETRICAL ENTROPY APPROACH FOR VARIABLE STRUCTURE MULTIPLE-MODEL ESTIMATION	2384
<i>Han Shen-Tu, Anke Xue, Dongliang Peng</i>	
AN IMPROVED TRACKING ALGORITHM OF MANEUVERING TARGETS BASED ON CSHGMM	2396
<i>Shi Wanwan, Peng Dongliang, Gu Yu, Ren Gang</i>	
DUAL-BAND CIRCULARLY POLARIZED ANTENNA DESIGN FOR SATELLITE NAVIGATION SYSTEM	2402
<i>Chaoyi Cheng, Chuanfang Zhang, Cheng Jin, Chunbo Luo</i>	
RESTRAINT METHOD OF SEA CLUTTER BASED ON DISTRIBUTION DETECTION OF MULTIPLE RADARS	2405
<i>W. S. Liu, H. T. Zhai, W. S. Mao, J. Gu</i>	
MULTIPLE AIRCRAFT FORMATION IDENTIFICATION USING OMP-BASED TIME- FREQUENCY ANALYSIS AND HOUGH TRANSFORM	2410
<i>Yuan Jiang, Ran Xia, Jia Xu, Quanhua Liu, Xinliang Chen</i>	
A NEW LOCATION METHOD BASED ON SPACEBORNE RADAR DETECTING	2415
<i>Chen Juan, Wang Shao-Bo, Han Lang, Zheng Ze-Xing</i>	
TERAHERTZ INTEGRATED ANTENNA WITH NOVEL IMPEDANCE MATCHING STRUCTURE	2420
<i>Zhen Tang, Haidong Hao, Xin Lv</i>	
RESEARCH ON DOA ESTIMATION FOR CLOSELY SPACED STRONG AND WEAK SOURCES	2423
<i>Guan Wang, Teng Long, Jia Xu, Yang Gao, Yuan Jiang</i>	
PERFORMANCE ANALYSIS OF SOURCE SEPARATION BASED ON BLIND SOURCE SEPARATION	2429
<i>Yang Gao, Jia Xu, Huachao Hu, Xiuhua Wang</i>	
A NOVEL ADAPTIVE NULLING OF INTERFERENCE METHOD FOR ARRAY RADAR	2433
<i>Yang Gao, Jia Xu, Yonghua He, Xiuhua Wang</i>	
VISUAL ATTENTION APPLICATION IN REMOTE SCENE	2437
<i>Cai-Ping Li, Pin Zhuang</i>	
SPACE-VARYING ATMOSPHERIC PHASE CORRECTION IN GROUND-BASED SAR INTERFEROMETRY	2441
<i>Z. S. Huang, W. X. Tan, Y. P. Wang, J. P. Sun, P. P. Huang, Y. N. Yuan</i>	
STUDY ON FULLY POLARIMETRIC THREE-DIMENSIONAL MICROWAVE IMAGING	2445
<i>W. X. Tan, Y. L. Qi, P. P. Huang, Z. S. Huang, Y. P. Wang, J. P. Sun</i>	
THE IDENTIFICATION OF RADAR TURBULENCE CLUTTER BASED ON CONNECTED- COMPONENT ANALYSIS	2449
<i>Wen-Long Zhou, Jia Xu, Liang Yan</i>	
ESTIMATION IN SMALL CPI FOR RADAR CLUTTER IDENTIFICATION	2453
<i>Liang Yan, Jia Xu, Wen-Long Zhou</i>	
SIMULATION OF IONOSPHERIC SCINTILLATION SIGNAL BASED ON AJ-STANFORD MODEL	2457
<i>Changjie Wang, Jian Shen</i>	
A SPACEBORNE WAS-GMTI MODE BASED ON AZIMUTH MULTI-CHANNELS	2460
<i>Shichao Zheng, Jianwei Niu, Hui Wang, Xiaolei Han</i>	
A STUDY OF THE GLACIER FLOW VELOCITY IN THE TIANSHAN MOUNTAINS BASED ON HIGH RESOLUTION SAR	2466
<i>I. L. Zhao, J. H. Fan, R. Y. Wang, G. Liu</i>	
LANDSLIDE MONITORING BASED ON GB-SAR INTERFEROMETRY FOR THE INSTABLE SLOPES OF YAOJI RESERVOIR	2470
<i>Rui Zhang, Yunfan Song, Guoxiang Liu, Heng Zhang</i>	
MICRO-DOPPLER EFFECT OF COOPERATIVE SPINNING TARGET	2475
<i>Zhang Ruoyu, Qu Wenxing, Yang Wenge, Zhou Shidong, Wang Bo</i>	
PHASE UNWRAPPING BASED ON WEIGHTED BIPARTITE MATCHING	2480
<i>J. Y. Xu, D. X. An, X. T. Huang, D. Feng</i>	
EXPERIMENTAL STUDY ON DEFORMATION MONITORING BASED ON GB-SAR	2484
<i>Yanping Wang, Yaolong Qi, Weixian Tan, Xiaolin Yang, Haitao Ma, Wen Hong, Husheng Li</i>	
OPTIMIZATION ON THE AMBIGUITY PROPERTIES OF MIMO RADAR	2488
<i>Zhao Zhang, Xiang-Ru Li</i>	
REALIZATION OF DRFM RADAR TARGET SIMULATOR BASED ON GENERAL INSTRUMENTS	2496
<i>Zhang Peng</i>	

PRECESSION PERIOD ESTIMATION OF BALLISTIC TARGET IN MIDCOURSE	2504
<i>Y. Z. Wang, C. Q. Feng, J. Gong, J. Q. Li</i>	
JOINT DOD AND DOA ESTIMATION FOR BISTATIC MIMO RADAR WITH COMBINED ARRAY ERRORS	2509
<i>Y. D. Guo, C. Q. Feng, Y. S. Zhang, W. K. Feng, J. Gong</i>	
PARALLEL REALIZATION OF SIFT FEATURE ABSTRACTION BASED ON GPU USING TEGRA K1	2514
<i>Jiang Donglin, Long Jianzhi, Yu Wanwan, Jin Ye</i>	
FORMATION DESIGN AND BASELINE OPTIMIZATION OF GEO SAR INTERFEROMETRY	2518
<i>Yu Zhu, Xichao Dong, Cheng Hu</i>	
TRANSLATION MOTION AND PERIOD ESTIMATION FOR PRECESSION TARGETS	2523
<i>H. N. Zhao, S. S. He, C. Q. Feng, Y. S. Zhang, J. Gong</i>	
A NEW TRACK-BEFORE-DETECT METHOD BASED ON PLOT AND TRACK FILTERING WITH MULTILEVEL FEATURES	2528
<i>J. Xu, X. Xiao, X. Zhou, L. Q. Qian, Q. Kang, M. M. Bian</i>	
METHOD OF FUZZY PATTERN RECOGNITION IN ONE-DEMOTION RANGE PROFILE RECOGNITION BASED ON SCATTER CENTRAL	2533
<i>Xi Zemin, Cui Mengda, Sun Changcheng</i>	
HIGH-ACCURACY RADAR CALIBRATION BASED ON ADS-B	2538
<i>Zhang Tao, Tang Xiaoming</i>	
THE OPTIMAL RANDOM POLARIZATION ARRAY	2544
<i>Zhen Hai Xu, Zi Yuan Xiong, Sheng Bing, Luo Wang</i>	
DERIVATIVE CONSTRAINED GRAM-SCHMIDT ORTHOGONALIZATION BEAMFORMING METHOD WITH WIDENED NULLS	2547
<i>Xiaona Hu, Yuanyuan Song, Yuze Sun, Xiaopeng Yang</i>	
IMPROVED ORTHOGONAL PROJECTION ADAPTIVE BEAMFORMING BASED ON NORMALIZATION AT SUBARRAY LEVEL	2552
<i>Shuai Li, Xiaopeng Yang, Xiaona Hu, Liyong Guo</i>	
ITERATIVE ROBUST SPARSE RECOVERY METHOD BASED ON FOCUSS FOR SPACE-TIME ADAPTIVE PROCESSING	2557
<i>Xiaopeng Yang, Yuze Sun, Tao Zeng, Teng Long</i>	
JOINT SLOW/FAST-TIME PULSE DIVERSITY METHOD FOR COUNTERING RANGE GATE PULL OFF JAMMING	2563
<i>Wei Li, Wei Liu, Liyong Guo, Xiaopeng Yang</i>	
SUBARRAY PARTITION METHOD BASED ON DIVISION POSITION CODING GENETIC ALGORITHM	2567
<i>Wen Xi, Xiaopeng Yang, Yuze Sun, Tao Zeng</i>	
MULTIPLICATIVE NOISE ANALYSIS OF THE FMCW SAR	2572
<i>Haishan Tian, Wenge Chang, Xiangyang Li</i>	
EFFICIENT RAW DATA SIMULATION OF FIXED-RECEIVER SPOTLIGHT BISTATIC SAR	2576
<i>Feifei Yan, Wenge Chang, Xiangyang Li</i>	
PRELIMINARY RESULTS OF A FMCW SAR WITH REAL-TIME PROCESSOR	2580
<i>Wenge Chang, Gaowei Jia, Chenfei Gu, Haishan Tian</i>	
A COMPACT FMCW SAR REAL-TIME IMAGING SYSTEM AND ITS PERFORMANCE ANALYSIS	2584
<i>Chengfei Gu, Wenge Chang, Xiangyang Li, Gaowei Jia, Zhaohe Liu</i>	
EXTENDED LIFETIME LAPLACE PLANE GEO SAR MISSION DESIGN	2588
<i>S. E. Hobbs, J. P. Sanchez, J. Kingston</i>	
THE SHIP TARGET DETECTION WITH IMPROVED ORTHOGONAL VECTOR SPECTRAL ESTIMATION BASED ON SIGNAL-SUBSPACE	2592
<i>Sun He-Min, Yang Lian, Wei Li-Xing</i>	
THE APPLICATION OF THE FUSION TECHNOLOGY BASED ON WSN AND BDS	2598
<i>Xin Lai, Hong-Jian Li, Ting Hou</i>	
HIGHER ORDER FINITE ELEMENT METHOD SOLVER FOR RCS COMPUTATION OF COMPLEX TARGETS	2603
<i>D. Garcia-Donoro, L. E. Garcia-Castillo, Sio Weng Ting, Y. Zhang, T. K. Sarkar</i>	
ROBUST SOUND RECOGNITION METHOD BASED ON HUMAN AUDITORY BIONIC PROCESSING	2607
<i>Yuqing Li, Xiaopeng Yang, Yuze Sun, Cheng Hu, Tao Zeng</i>	
Author Index	