2014 12th International Conference on Signal Processing

(ICSP 2014)

Hangzhou, China
19-23 October 2014

Pages 1-801
# Table of Contents

## A. Digital Signal Processing (DSP)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAO-BLACKWELLIZED AUXILIARY PARTICLE FILTERS FOR MIXED LINEAR/NONLINEAR GAUSSIAN MODELS</td>
<td>1</td>
</tr>
<tr>
<td>Nordh, J.</td>
<td></td>
</tr>
<tr>
<td>FRONTIERS OF MUSIC INFORMATION RESEARCH BASED ON SIGNAL PROCESSING</td>
<td>7</td>
</tr>
<tr>
<td>Goto, M.</td>
<td></td>
</tr>
<tr>
<td>TONIC AND SCALE RECOGNITION IN PERSIAN AUDIO MUSICAL SIGNALS</td>
<td>18</td>
</tr>
<tr>
<td>Heydarian, P.; Jones, L.</td>
<td></td>
</tr>
<tr>
<td>MIXING VECTOR CONSTRUCTION FOR SINGLE CHANNEL SEMI-BLIND SOURCE SEPARATION USING EMPIRICAL MODE DECOMPOSITION</td>
<td>22</td>
</tr>
<tr>
<td>Miao, S.; Hou, J.Y.; Wang, W.L.; Yao, S.W.</td>
<td></td>
</tr>
<tr>
<td>RECOGNITION OF A SPECIAL UQPSK MODULATION TYPE IN TDRSS TELEMETRY AND COMMAND SYSTEM</td>
<td>28</td>
</tr>
<tr>
<td>Song, Y.; Wang, X.; Wang, F.H.; Huang, Z.T.</td>
<td></td>
</tr>
<tr>
<td>BLIND DESPREADING OF WCDMA SIGNALS</td>
<td>32</td>
</tr>
<tr>
<td>Zhao, Z.J.; Gu, X.W.; Shen, L.; Zhan, Y.</td>
<td></td>
</tr>
<tr>
<td>EXTRACTION OF TRANSIENTS VIA THE COMBINATION OF WAVELET BASIS AND MAJORIZATION MINIMIZATION ALGORITHM</td>
<td>37</td>
</tr>
<tr>
<td>A SIMPLIFIED NORMALIZATION OPERATION FOR PERFECT RECONSTRUCTION FROM A MODIFIED STFT</td>
<td>42</td>
</tr>
<tr>
<td>Li, X.Y.</td>
<td></td>
</tr>
<tr>
<td>ESTIMATION METHOD FOR WEAK SINUSOIDAL AMPLITUDE IN ALPHA NOISE</td>
<td>46</td>
</tr>
<tr>
<td>Wang, C.Y.; Liu, X.L.; Fan, B.</td>
<td></td>
</tr>
<tr>
<td>LONG BASELINE DIRECTION FINDING AND LOCALIZATION ALGORITHMS FOR NOISE RADIATION SOURCE</td>
<td>52</td>
</tr>
<tr>
<td>Yang, J.; Chen, W.J.; Li, L.; Ni, X.K.</td>
<td></td>
</tr>
<tr>
<td>PSEUDO-SPECTRAL METHOD FOR MODELING ELASTIC WAVE PROPAGATION IN ISOTROPIC MEDIUM</td>
<td>58</td>
</tr>
<tr>
<td>Wang, T.; Li, L.G.; Zhang, Y.; Niu, L.J.</td>
<td></td>
</tr>
<tr>
<td>LEARNING QUANTUM OPERATOR BY QUANTUM ADIABATIC COMPUTATION</td>
<td>63</td>
</tr>
<tr>
<td>Gao, M.; Deng, K.</td>
<td></td>
</tr>
<tr>
<td>A NEW TIME-DELAY ESTIMATION WITH HIGH PRECISION BASED ON CUBIC</td>
<td>68</td>
</tr>
</tbody>
</table>
SPLINE INTERPOLATION AND AREA BARY CENTER ALGORITHM

A HEURISTIC FOR SIGMA SET SELECTION OF UKF
Wang, Y. J.; Liu, J.; Yang, W. Q.; Zhang, J.

LEAKAGE DETECTION IN A CO2 PIPELINE USING ACOUSTIC EMISSION TECHNIQUES
Ma, Y. F.; Cui, X. W.; Yan, Y.; Ma, L.; Han, X. J.

AN EFFECTIVE WIDEBAND SPECTRUM SENSING METHOD BASED ON L1-SVD ALGORITHM
Liu, F. L.; Du, R. Y.

NON-LOCAL SIMILARITY DICTIONARY LEARNING BASED FACE SUPER-RESOLUTION
Liao, H. B.; Dai, W. H.; Zhou, Q. J.; Liu, B.

A NEW UNAMBIGUOUS ACQUISITION ALGORITHM FOR BOC(N,N) SIGNALS
Wang, W.; Wang, J.; Dong, W. Z.; Zhao, H. J.

IMPLEMENTATION OF RS ENCODER FOR CCSDS
Zhang, Y.; Wang, J.; Zhao, H. J.

DESIGN OF MODULATED EXCITATION WAVEFORMS BASED ON OFDM SIGNALS FOR MEDICAL ULTRASOUND IMAGING
Chi, C.; Li, Z. H.

ROUTE PLANNING METHOD DESIGN FOR UAV UNDER RADAR ECM SCENARIO
Duan, Y. W.; Ji, X. Y.; Li, M. L.; Li, Y. J.

CUFF-FREE BLOOD PRESSURE ESTIMATION USING PULSE TRANSIT TIME AND HEART RATE
Wang, R. P.; Jia, W. Y.; Mao, Z. H.; Robert, J. S.; Sun, M. G.

THE RESEARCH OF GLONASS SIGNAL AND BASE-BAND PROCESSING TECHNIQUES
He, J.; Guo, C. J.

B. Spectrum Estimation & Modeling

OPTIMAL POWER AND TIME ALLOCATION IN GREEN COOPERATIVE COGNITIVE RADIO NETWORK
Luo, M. L.; Chen, Y.; Zhang, J. Z.; Lan, K. W.

NEW ITERATIVE ALGORITHM FOR THE COMPUTATION OF THE RANK-DEFICIENT CAPON FILTER IN SPECTRAL ESTIMATION
Gao, Z. F.; Peng, Y.; Peng, X. Y.

FRACTIONAL STOCHASTIC RESONANCE OF MULTI-FREQUENCY WEAK PERIODIC SIGNALS IN ALPHA-STABLE NOISY ENVIRONMENT
Zheng, Y. J.; Wang, F.; Li, H.

STUDY ON THE CALCULATION METHOD OF THE KZK EQUATION FOR PARAMETRIC ARRAY
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Li,Z.Z.;Fang,R.Z.;Shi,S.G. RESEARCH ON JOINT DOA AND POLARIZATION ESTIMATION FOR ALTERNATE POLARIZATION ARRAY</td>
<td>144</td>
</tr>
<tr>
<td>Dou,H.J.;Guo,C.H.;Cheng,F.J.;Wang,Q.L. AN IMPROVED METHOD FOR GRAVITY DISTURBANCES COMPENSATION IN INS/GPS INTEGRATED NAVIGATION</td>
<td>148</td>
</tr>
<tr>
<td>Yang,J.;Zhao,H.S.;Chen,X.;Xu,J.Y.;Zhang,J.Z. A NOVEL DOA MATRIX METHOD FOR COHERENT SIGNALS BASED ON FIRST ORDER STATISTICS</td>
<td>159</td>
</tr>
<tr>
<td>Li,L.;Li,G.L. APPLIED RESEARCH OF EMR VIRTUAL CHAMBER MEASUREMENT SYSTEM</td>
<td>165</td>
</tr>
<tr>
<td>Sui,W.S.;Cheng,D.W. SIMPLE SCENE SIMULATION FOR POLARIZED HYPERSPECTRAL IMAGING COMPOSED OF CANOPY AND WALL</td>
<td>170</td>
</tr>
<tr>
<td>Zhang,J.P.;Wu,B.F.;Ma,W.J. C. TF Spectrum Analysis &amp; Wavelet</td>
<td></td>
</tr>
<tr>
<td>TIME-FREQUENCY ANALYSIS OF SEISMIC DATA BASED ON BASIS PURSUIT</td>
<td>175</td>
</tr>
<tr>
<td>Li,Y.Q.;Wang,J. RESEARCH ON WAVE-ENTROPY BASED IDENTIFICATION OF PCM SIGNAL</td>
<td>180</td>
</tr>
<tr>
<td>Zhang,X.D.;Wang,J.;Yuan,Y.N. AERODERIVATIVE GAS TURBINE LEAN BLOWOUT (LBO) DETECTION AND ISOLATION USING ACOUSTIC PRECURSORS</td>
<td>184</td>
</tr>
<tr>
<td>Zhou,J. ESTIMATION OF A GENERALIZED NON-PARAMETRIC MAGNITUDE SQUARED COHERENCE SPECTRUM USING THE GLRT-BASED RANK DETECTION</td>
<td>189</td>
</tr>
<tr>
<td>Shao,Q.F.;Peng,R.H.;Zheng,C.S. QUADRATIC TIME-FREQUENCY FEATURE EXTRACTION AND FUSION FOR SHIP TARGETS CLASSIFICATION</td>
<td>194</td>
</tr>
<tr>
<td>Liu,Y.H.;Zhang,X.M.;Shao,J.F. E. Adaptive Filtering &amp; SP</td>
<td></td>
</tr>
<tr>
<td>QUANTIZED KERNEL LEAST MEAN MIXED-NORM ALGORITHM</td>
<td>199</td>
</tr>
<tr>
<td>Yu,S.J.;Fan,Z.Q.;Zhao,Y.X.;Zhu,J.;Zhao,K.X.;Wu,D.P. IMPROVED ENSEMBLE EMPIRICAL MODE DECOMPOSITION METHOD FOR INVESTIGATING DISC BRAKE SQUEAL SIGNALS</td>
<td>205</td>
</tr>
<tr>
<td>Liang,Y.;Yamaura,H.</td>
<td></td>
</tr>
</tbody>
</table>
COMPLEX-VALUED KERNEL INCREMENTAL METALEARNING ALGORITHMS
Ye, Y.; Li, C.

PARAMETERS SELECTION OF FBLMS ALGORITHM FOR NOISE FM-CW RADAR
Zhang, Y.P.; Gao, M.G.; Liu, J.B.; Li, Y.J.

RAO-BLACKWELLIZED PARTICLE FORWARD FILTERING BACKWARD SMOOTHING WITH APPLICATION TO BLIND SOURCE SEPARATION
Qiu, H.; Huang, G.M.; Gao, J.

A NOVEL CONVEX COMBINATION OF LMS ADAPTIVE FILTER FOR SYSTEM IDENTIFICATION
Lu, L.; Zhao, H.Q.

A WIDEBAND INTERFERENCE SUPPRESSION TECHNIQUE FOR MULTI-CHANNEL SAR BASED ON STAP IN THE SPACE-FREQUENCY DOMAIN
Wang, X.; Liu, Z.H.; Deng, C.Q.; Jiang, T.

GAUSSIAN SUM QUADRATURE PARTICLE FILTERING
Li, L.Q.; Yi, Z.L.; Xie, W.X.

COMBINING GENERALIZED JPDA AND FRLS FILTER FOR TRACKING MULTIPLE MANEUVERING TARGETS
Fan, E.; Xie, W.X.; Liu, Z.X.; Li, P.F

SENSITIVITY OF CANCELLATION ALGORITHM TO TRANSMITTED WAVEFORM IN NOISE RADAR SYSTEM
Zhang, Y.P.; Li, Y.J.; Jin, L.L.; Gao, M.G.

RESEARCH ON THE ALGORITHM OF GRAVITY AIDED INERTIAL NAVIGATION BASED ON CKF

TWO-DIMENSIONAL SUBBAND ADAPTIVE FILTERS
Hu, W.; Ni, J.G.

F. Array Signal Processing

DOA TRACKING BASED ON MIMO RADAR IN IMPULSIVE NOISE BACKGROUND
Diao, M.; Li, L.; Gao, H.Y.

FAST DOA ESTIMATION ALGORITHM FOR NONCIRCULAR SOURCES WITH CENTRAL SYMMETRICAL ARRAY
Xie, W.; Zhang, X.Y.; Chen, L.B.; Yin, J.H.; Wan, Q.

A NEW BROADBAND BEAMFORMER WITH FIXED FEEDBACK WEIGHTS
Wu, K.; Su, T.; Pang, J.H.

COMBINING SUM-DIFFERENCE AND AUXILIARY BEAM ADAPTIVE MONOPULSE ALGORITHM AT SUBARRAY LEVEL FOR ANTI-JAMMING
Zhou, B.L.; Li, R.F.; Dai, L.Y.; Li, H.

THE TROPOSCATTER ARRAY SIGNAL RECEIVING MODEL AND
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROCESSING ALGORITHM</td>
<td>Wang,Q.;Cheng,Z.;Wang,Z.;Wang,M.N.</td>
<td></td>
</tr>
<tr>
<td>ROBUST BEAMFORMING BASED ON WIENER FILTER FOR CIRCULAR SENSOR ARRAYS</td>
<td>Lin,J.C.;Ma,X.C.;Yan,S.F.;Shang,Z.G.</td>
<td>288</td>
</tr>
<tr>
<td>BROADBAND SIGNAL RECORDING FOR A BAFFLED CIRCULAR MICROPHONE ARRAY</td>
<td>Wang,M.;Ma,X.C.;Yan,S.F.;Shang,Z.G.</td>
<td>292</td>
</tr>
<tr>
<td>USING CIRCULAR HARMONICS DECOMPOSITION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCURATE DELAY EXTRACTION FOR INDOOR PULSE SOUND SOURCE LOCATION</td>
<td>Wang,H.S.;Li,J.;Sun,Z.Q.;Cao,M.H.;Xie,H.W.</td>
<td>298</td>
</tr>
<tr>
<td>A NOVEL GEOMETRIC MODEL RECONSTRUCTION METHOD OF THE SURROUNDING</td>
<td>Yu,C.H.;Yu,Y.Y.</td>
<td>302</td>
</tr>
<tr>
<td>ENVIRONMENT WITH ECHOES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A DESIGN OF ALGORITHM BASED ON MICROPHONE ARRAY</td>
<td>Yu,C.H.;Yu,Y.Y.</td>
<td>307</td>
</tr>
<tr>
<td>MOVING DS-OTHR ARRAY RECONSTRUCTION ALGORITHM BASED ON INTERPOLATION</td>
<td>Ji,Z.Y.;Ding,J.;Xie,J.H.;Lu,S.;Jiang,X.</td>
<td>312</td>
</tr>
<tr>
<td>FILTERING PERFORMANCE OF ALTERNATE POLARIZATION ARRAY BASED ON THE</td>
<td>Dou,H.J.;Chen,F.J.;Guo,C.H.;Zhang,X.</td>
<td>316</td>
</tr>
<tr>
<td>TECHNOLOGY OF OBLIQUE PROJECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POSITION INFORMATION FIELD AND ITS FUSE METHOD</td>
<td>Liu,W.;Liu,Q.;Zhou,H.J.</td>
<td>321</td>
</tr>
<tr>
<td>BASED ON VARIABLE CORE FUNCTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGH RESOLUTION IMAGING ON DISTRIBUTED SAR USING JOINT SPACE-TIME-</td>
<td>Zhao,B.W.;Liu,M.;Lu,X.;Li,C.L.;Wang,P.F.</td>
<td>330</td>
</tr>
<tr>
<td>FREQUENCY METHOD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DYNAMIC DOA ESTIMATION VIA LOCALLY COMPETITIVE ALGORITHM</td>
<td>Jia,J.;Yu,L.;Sun,H.;Zhang,L.</td>
<td>336</td>
</tr>
<tr>
<td>OFF-GRID SOUND SOURCE LOCALIZATION BASED ON COMPRESSIVE SENSING</td>
<td>Yang,Y.W.;Ying,R.D.;Jiang,S.X.;Liu,P.L.</td>
<td>341</td>
</tr>
<tr>
<td>AN IMPROVED METHOD OF ENERGY-PEAK INCOHERENT SIGNAL-SUBSPACE METHOD</td>
<td>Ma,J.;He,P.Y.</td>
<td>346</td>
</tr>
<tr>
<td>BASED ON TIME-FREQUENCY SPARSENESS OF SPEECH SIGNAL AND ITS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
AN IMPROVED MODE-MUSIC ALGORITHM FOR DOA ESTIMATION OF COHERENT SOURCES BASED ON HYBRID ARRAY
Han, Y.; Cao, B.X.; Dong, W.Y.; Fang, Q.Y.; Zhang, W.

NON-CONTACT STRIP SPEED MEASUREMENT USING AN ELECTROSTATIC SENSOR ARRAY AND DATA FUSION TECHNIQUE

ATTITUDE AIDED SPACE-TIME MULTI-BEAMFORMER ANTI-JAMMING METHOD FOR SATELLITE NAVIGATION RECEIVER
Wang, D.W.; Li, J.Q.; Gong, W.F.; Wu, S.L.

COMPARISON OF DIFFERENT ARRAY MODES FOR PORTABLE ULTRA-WIDEBAND THROUGH WALL IMAGING RADAR

DESIGN OF WEIGHTS BASED ON THE VIRTUAL ARRAY TRANSFORMATION OF UNIFORM CIRCULAR ARRAY FOR ULTRASOUND IMAGING
Zhang, Y.; Li, Z.H.

DIRECTION-OF-ARRIVAL AND POLARIZATION ESTIMATION BASED ON SPARSE SENSING
Cui, W.; Jiang, Y.L.; Liu, H.T.; Tian, J.; Shen, Q.; Wu, S.; Wei, Z.X.; Qian, T.

G. Hardware Implementation for SP

RESEARCH ON THE SENSOR CALIBRATION OF PRESSURE TRANSMITTER BASED ON THE LEAST SQUARE METHOD
Wang, Z.P.; Xu, A.D.; Wang, K.; Song, Y.; Yan, B.J.

RESEARCH AND DEVELOPMENT OF ENERGY MONITORING SYSTEM FOR SOLAR POWERED UAV
Lin, F.; Li, H.M.; Zhang, X.X.

A HIGH PERFORMANCE VIDEO FRAME EXTRACTOR FOR OMNI MEDIA MONITORING SYSTEM
Pang, L.; Li, X.; Chai, J.P.; Liu, Y.

DESIGN OF MULTI-CHANNEL DUAL-FREQUENCY DIGITAL RECEIVER BASED ON FPGA
Zhang, Q.X.; Cheng, L.T.; Yin, C.

AN ETHERNET INTERFACE SOLUTION OF SPACE SCIENCE EXPERIMENT PAYLOADS
Jia, T.X.; Dong, W.B.

A LOW-COST FULLY PIPELINED ARCHITECTURE FOR FINGERPRINT MATCHING
Xu, J.W.; Jiang, J.F.; Dou, Y.; Shen, X.L.

MULTI-MODE CORDIC PROCESSOR ON A DYNAMICALLY RECONFIGURABLE ARRAY
Fu, Q.M.; Wang, D.; Ding, X.M.

REAL-TIME AND EXTENSIBLE CALCULATION OF STAP WEIGHTS ON FPGA
Li,Q.;Cao,J.S.;Pei,X.

A NOVEL DESIGN OF DIVIDER AND STRUCTURE FOR FPGA IMPLEMENTATION IN P CODE GENERATOR

REAL-TIME VISUAL STATIC HAND GESTURE RECOGNITION SYSTEM AND ITS FPGA-BASED HARDWARE IMPLEMENTATION

A MULTIFUNCTIONAL SIGNAL PROCESSING SYSTEM FOR UNMANNED UNDERWATER VEHICLES
Ren,Y.F.;Wu,Y.Q.;Li,Z.;Wu,Y.S.;Huang,H.H.

SWITCHED-CURRENT GAUSSIAN LOW-PASS FILTER BASED ON IFLF CONFIGURATION
Zhao,W.S.

H. Speech and Audio Coding

AN OPEN-SOURCE GPU ACCELERATED FEATURE EXTRACTION TOOL
Michalek,J.;Vanek,J.

VOICE ACTIVITY DETECTION BASED ON ENSEMBLE EMPIRICAL MODE DECOMPOSITION AND TEAGER KURTOSIS
Feng,C.;Zhao,C.H.

SPEECH ENHANCEMENT BASED ON ANALYSIS SYNTHESIS FRAMEWORK WITH IMPROVED PITCH ESTIMATION AND SPECTRAL ENVELOPE ENHANCEMENT
Liu,B.;Mo,F.Y.;Tao,J.H.

AN ONLINE ADAPTIVE ALGORITHM FOR UNDERDETERMINED BLIND SOURCE SEPARATION
Zhang,Y.;Wu,K.R.;Tan,G.Y.;Wu,J.H.

SPEECH SEPARATION OF A TARGET SPEAKER BASED ON DEEP NEURAL NETWORKS

NOISE IDENTIFICATION FOR MODEL BASED SPEECH ENHANCEMENT
Jiang,W.B.;Ying,R.D.;Liu,P.L.

NOISE POWER SPECTRUM ESTIMATION BASED ON WEAK SPEECH PROTECTION FOR SPEECH ENHANCEMENT
Feng,Y.;An,B.K.

I. Speech Synthesis & Recognition

EMARATI SPEAKER IDENTIFICATION
Shahin,I.;Ba-hutair,M.N.

REDUCING FOOTPRINT OF UNIT SELECTION TTS SYSTEM BY REMOVING LINGUISTIC SEGMENTS WITH RARELY SELECTED UNITS
Gruber,M.;Matousek,J.;Tihelka,D.;Hanzlicek,Z.
ON THE IMPACT OF SENTENCE LENGTH ON RECOGNITION ACCURACY 500
Valenta, T.; Smidl, L.

DYSARTHRIC SPEECH RECOGNITION USING A CONVOLUTIVE BOTTLENECK NETWORK 505

DETECTING DRIVER FATIGUE BASED ON NONLINEAR SPEECH PROCESSING AND FUZZY SVM 510
Li, X.; Tan, N.L.; Wang, T.L.; Su, S.Q.

IMPROVEMENTS ON BOTTLENECK FEATURE FOR LARGE VOCABULARY CONTINUOUS SPEECH RECOGNITION 516
Tuercxun, M.M. T.A.L.; Zhang, S.L.; Bao, Y.B.; Dai, L.R.

A MODIFIED SPEECH ENHANCEMENT ALGORITHM USING A UNIVERSAL SPEAKER MODEL 521
Guo, L.; Jiang, W.B.; Ying, R.D.; Liu, P.L.

ACCURATE SPEAKER RECOGNITION BASED ON ADAPTIVE GAUSSIAN MIXTURE MODEL 527
Wang, Y.Q.; Yu, Y.B.

DEEP NEURAL NETWORK BASED SPEECH SEPARATION FOR ROBUST SPEECH RECOGNITION 532
Tu, Y.H.; Du, J.; Xu, Y.; Dai, L.R.; Lee, C.H.

SPEECH ENHANCEMENT VIA SPARSE CODING WITH IDEAL BINARY MASK 537
Sun, J.; Tang, Y.B.; Jiang, A.M.; Xu, N.; Zhou, L.

SPEECH BLIND SIGNAL SEPARATION WITH FASTICA AND MARKOV CHAIN COMBINATION 541
Liu, Z.M.; Miao, Z.J.; Wan, L.L.

COMPARISON OF PERFORMANCE IN CHINESE ISOLATED WORD RECOGNITION BETWEEN NORMAL AND WHISPERED SPEECH 545
Sha, J.; Chen, X.Q.; Yu, Y.B.

A NOVEL SPEAKER VERIFICATION APPROACH FOR CERTAIN NOISY ENVIRONMENT 549
Cao, Y.M.; Jiang, W.B.; Ying, R.D.; Liu, P.L.

1.a Hot Topics in Music Information Processing

USE OF FUNDAMENTAL FREQUENCIES SHAPED BY GENERATION PROCESS MODEL FOR HMM-BASED SPEECH SYNTHESIS 555

CONTEXT-DEPENDENT DETERMINISTIC PLUS STOCHASTIC MODEL 561
Khorram, S.; Sameti, H.; Bahmaninezhad, F.

VOICE CONVERSION BASED ON MATRIX VARIATE GAUSSIAN MIXTURE MODEL 567
Saito, D.; Doi, H.; Minematsu, N.; Hirose, K.

A DATA DRIVEN METHOD FOR TARGET AND CONCATENATION COST 572
CALCULATION WITH KL-DIVERGENCE IN MANDARIN HYBRID SPEECH SYNTHESIS  
Liu, S.F.; Wen, Z.Q.; Tao, J.H.; Li, Y.; Kang, Y.G. 

AN INVESTIGATION OF IMPLEMENTATION AND PERFORMANCE ANALYSIS OF DNN BASED SPEECH SYNTHESIS SYSTEM  
Chen, Z.H.; Yu, K. 

BUILDING A CHINESE NATURAL EMOTIONAL AUDIO-VISUAL DATABASE  
Bao, W.; Li, Y.; Gu, M.L.; Yang, M.H.; Li, H.; Chao, L.L.; Tao, J.H. 

MULTI-LEVEL PROSODY AND SPECTRUM CONVERSION FOR EMOTIONAL SPEECH SYNTHESIS  
Wang, Z.X.; Yu, Y.B. 

AUTOMATIC DETECTION OF CONTRASTIVE WORD PAIRS USING TEXTUAL AND ACOUSTIC FEATURES  
Zang, X.; Wu, Z.Y.; Ning, Y.S.; Meng, H.; Cai, L.H. 

I. b Speech Quality Improvements and Flexible Feature Control  

AUTOLEADGUITAR: AUTOMATIC GENERATION OF GUITAR SOLO PHRASES IN THE TABLATURE SPACE  
Mcvicar, M.; Fukayama, S.; Goto, M. 

MANIPULATION OF VOCAL SIGNAL IN MIXED MUSIC SIGNAL USING SIDE INFORMATION OF F0 AND BACKING SPECTRUM  
Ito, A.; Sasaki, Y. 

A NOVEL APPROACH TO SEPARATION OF MUSICAL SIGNAL SOURCES BY NMF  
Yazawa, S.; Hamanaka, M.; Utsuro, T. 

CRESTMUSE TOOLKIT: A JAVA-BASED FRAMEWORK FOR SIGNAL AND SYMBOLIC MUSIC PROCESSING  
Kitahara, T.; Katayose, H. 

AN ON-LINE ALGORITHM OF GUITAR PERFORMANCE TRANSCRIPTION USING NON-NEGATIVE MATRIX FACTORIZATION  
Otsuka, M.; Kitahara, T. 

J. Image Processing & Understanding  

APPLICATIONS OF THE CHINESE REMAINDER THEOREM IN SIGNAL PROCESSING  
Liu, Y.; Goutte, R. 

GENERALIZATION OF HUE IN THE RGB CUBE SPACE  
Khoo, H.K.; Ong, H.C. 

A NEW SPEED-BASED ADAPTIVE MOTION ESTIMATION ALGORITHM FOR VIDEO SEQUENCES  
Abdeaal, S.S.; Abdelhalim, M.B.; Hegazy, A.A. 

LOW-LEVEL FEATURES FOR INPAINTING QUALITY ASSESSMENT  

SPORTS VIDEO CLASSIFICATION IN CONTINUOUS TV BROADCASTS
Campr, P.; Herbig, M.; Vaněk, J.; Psutka, J.

EMBEDDED EXTENDED VISUAL CRYPTOGRAPHY SCHEME FOR COLOR IMAGE USING ABC ALGORITHM
Deepa, A.K.; Bento, B.

IMAGE INPAINTING WITH STRUCTURE AND TEXTURE PROPAGATION
Voronin, V.V.; Shraifel, I.S.; Marchuk, V.V.; Tokareva, S.V.; Sherstobitov, A.I.

SPARSE METHOD FOR RINGING ARTIFACT DETECTION
Umnov, A.V.; Nasonov, A.V.; Krylov, A.S.; Yong, D.

LANDMARK-BASED INDOOR POSITIONING FOR VISUALLY IMPAIRED INDIVIDUALS
Bai, Y.; Jia, W.; Zhang, H.; Mao, Z.-H.; Sun, M.

GRID WARPING FOR IMAGE SHARPENING USING ONE-DIMENSIONAL APPROACH
Krylov, A.S.; Nasonova, A.A.; Nasonov, A.V.

RESEARCH ON THRESHOLD SEGMENTATION ALGORITHM AND ITS APPLICATION ON INFRARED SMALL TARGET DETECTION
Zhang, L.Y.; Du, Y.X.; Li, B.

COLOR IMAGE SEGMENTATION BASED ON SEEMED REGION GROWING WITH CANNY EDGE DETECTION
Chen, H.J.; Ding, H.Q.; He, X.X.; Zhuang, H.L.

A SPARSE MULTIPLE ENDMEMBER SPECTRAL MIXTURE ANALYSIS ALGORITHM OF HYPERSONSPECTRAL IMAGE
Zhao, C.H.; Cui, S.L.; Qi, B.

RESEARCH OF MULTI-FOCUS IMAGE FUSION ALGORITHM BASED ON GABOR FILTER BANK
Li, X.J.; Wang, M.H.

APPLICATIONS OF EDGE PRESERVATION RATIO IN IMAGE PROCESSING
Yu, S.D.; Zhang, W.T.; Wu, S.B.; Li, X.L.; Xie, Y.Q.

A NOVEL METHOD OF IMAGE SEGMENTATION BASED ON PCNN WITH SPIRAL OPTIMIZATION
Man, L.; Li, S.R.; Wang, X.Q.; Yu, Y.; Lu, S.L.

RESEARCH ON THE EXTRACTION AND CLASSIFICATION OF THE CONCAVE POINT FROM FIBER IMAGE
Dai, J.X.; Chen, X.C.; Chu, N.Q.

FAST IMAGE FUSION BASED ON ALTERNATING DIRECTION ALGORITHMS
Fu, Y.X.; Wang, R.; Jin, Y.L.; Zhang, H.Y.

THE ANALYSIS OF EAST DONGTING LAKE WATER CHANGE BASED ON TIME SERIES OF REMOTE SENSING DATA
Ma, C.H.; Dai, Q.; Li, X.P.; Liu, S.B.

SAR TARGET SUPER RESOLUTION BASED ON SCATTERING CENTER
RECONSTRUCTION
Xu, Z.; Qu, C.W.; He, L.Q.; Xu, Z.

WAVELET-BASED SEAMLESS IMAGE STITCHING UNDER L1 AND L2 NORM

ENSEMBLE LEARNING BASED ON MULTI-FEATURES FUSION AND
SELECTION FOR POLARIMETRIC SAR IMAGE CLASSIFICATION
Wang, Y.Y.; Zhang, Y.; Zhuo, T.; Liao, M.S.

IMAGE SEGMENTATION BASED ON 2D RENYI GRAY ENTROPY AND FUZZY CLUSTERING
Cheng, C.Q.; Hao, X.Y.; Liu, S.L.

A NOVEL GCV-BASED CRITERION FOR PARAMETRIC PSF ESTIMATION
Xue, F.; Liu, J.Q.; Li, Z.F.; Meng, G.

DEFECT DETECTION OF TRANSPARENT BOTTLE MOUTH ONLINE
Sa, J.M.; Zhang, J.; Zhou, J.L.; Ruan, T.Y.; Tao, X.P.; Pan, Y.F.; Wang, Z.Z.

GESTURE RECOGNITION USING DEPTH IMAGE
Luo, L.F.; Miao, Z.J.

THE IMAGING METHOD OF THE NON-UNIFORM MOVEMENT FOR GEOSAR
Wang, Z.Q.; Jiang, Y.C.; Li, Y.J.

VISUAL TRACKING BASED ON LOCAL PATCHES AND FERNS FOREST
Deng, P.; Zhou, L.; Wang, B.Y.

HIERARCHICAL POLARIMETRIC SAR IMAGE CLASSIFICATION BASED ON
FEATURE SELECTION AND GENETIC ALGORITHM
Wang, Y.Y.; Zhuo, T.; Zhang, Y.; Liao, M.S.

AUTOMATIC MOTION DETECTION AND OBJECT EXTRACTION METHOD
BASED ON HISTOGRAM OF DISPARITY
Liu, X.R.; Lai, X.Z.; Wu, M.

CENTROID ESTIMATION BASED ON MSER DETECTION AND GAUSSIAN MIXTURE MODEL
Ding, W.B.; Gong, D.; Zhang, Y.N.; He, Y.

A NOVEL MULTI-FOCUS IMAGE FUSION ALGORITHM BASED ON NSST-FRFT
Sun, Y.C.; Hu, S.H.; Liu, S.Q.; Sun, W.

DICTIONARY LEARNING FOR LARGE-SCALE REMOTE SENSING IMAGE
BASED ON PARTICLE SWARM OPTIMIZATION
Geng, H.; Wang, L.Z.; Liu, P.

GENERALIZED DISCRIMINANT ANALYSIS MODEL AND ITS EXTENSION FOR
FACIAL EXPRESSION RECOGNITION
Li, W.; Ruan, Q.Q.

INFRARED SMALL TARGET DETECTION BASED ON THE BLOCK PREDICTION OF BACKGROUND
Shi, J.N.; Wang, W.G.; Li, C.M.; Wu, P.; Han, Q.J.

SPARSE REPRESENTATION WITHIN DISCONNECTED SPATIAL SUPPORT
FOR TARGET DETECTION IN HYPERSONSPECTRAL IMAGERY
NEW RGB-D FEATURES FOR OBJECT RECOGNITION ON KERNEL VIEW
Ding, X.S.; Lei, H.; Rao, Y.B.

IMAGE DENOISING USING HYPER-LAPLACIAN PRIORS AND GRADIENT HISTOGRAM PRESERVATION MODEL
Jia, F.Q.; Zhang, H.Z.; Deng, H.; Li, W.; Zuo, W.M.

THE IMAGE DEPTH ESTIMATION BASED ON MULTI-SCALE TEXTURE FEATURES AND LEAST-SQUARE METHOD
Zhang, L.Z.; Chen, T.T.; Sun, H.D.; Zhao, Z.J.; Jin, X.S.; Huang, J.

AUTOMATIC SHOEPRINT CLASSIFICATION BASED ON DFT
Min, X.F.; Qi, G.Q.

A NOVEL TROUBLE OF MOVING EMU DETECTION ALGORITHM BASED ON CONTEXTUAL SEMANTIC INFORMATION
Liu, S.Y.; Kong, L.L.; Fang, K.; Wang, J.; Xu, C.J.

AN ANALYSIS DICTIONARY LEARNING ALGORITHM BASED ON RECURSIVE LEAST SQUARES
Zhang, Y.; Wang, H.L.; Wang, W.W.

EXTRACTION METHOD OF THE MOTION BLURRED STAR IMAGE FOR THE STAR SENSOR UNDER HIGH DYNAMIC CONDITIONS
Ma, L.H.; Wang, X.S.; Zhan, D.J.; Dai, D.K.

SUPER-RESOLUTION RESTORATION OF MULTISPECTRAL IMAGES BASED ON PRINCIPAL COMPONENT ANALYSIS
Wang, S.Y.; Wang, B.

RICE INTEGRITY DETECTION BASED ON DIGITAL IMAGE PROCESSING TECHNOLOGY
Liu, J.; Wang, H.Y.

THE RESEARCH OF SHORT-RANGE MOVING TARGET THREE-DIMENSIONAL ISAR IMAGING
Ti, Q.Q.; Wei, G.H.; Zhou, X.P.

A VIEW SYNTHESIS METHOD BASED ON LOCAL LUMINANCE AND NEIGHBORHOOD SPREADING STRENGTH INFORMATION
Fu, Z.Z.; Li, Y.; Yang, X.H.; Xu, J.; Wang, X.

AN IMPROVED VISIBLE AND INFRARED IMAGE FUSION BASED ON LOCAL ENERGY AND FUZZY LOGIC
Fu, Z.Z.; Dai, X.D.; Li, Y.; Wu, H.G.; Wang, X.

GENERALIZED HISTOGRAM INTERSECTION KERNEL FOR IMAGE CLASSIFICATION
Gao, X.; Miao, Z.J.

SHADOW REMOVAL OF SINGLE TEXTURE REGION USING HISTOGRAM MATCHING AND COLOR MODEL RECOVERY
Zhang, Y.L.; Zhao, Y.; Xiao, P.; Yuan, Y.L.; Yang, X.; Lu, Y.W.

EDGE DETECTION BASED JND MODEL FOR DIGITAL WATERMARKING
Zhi, S.; Zhang, Y.N.; Yang, C.; Liu, J.B.

**STATISTICAL PATTERN RECOGNITION FOR REAL-TIME IMAGE EDGE DETECTION ON FPGA**
Liu, Z.Y.; Qi, J.; Feng, L.; Feng, L.

**SPARSE EIGENFACES ANALYSIS FOR RECOGNITION**
Zhang, H.M.; Liu, W.F.; Dong, L.P.; Wang, Y.J.

**DICTIONARY LEARNING BASED IMAGE ENHANCEMENT FOR RARITY DETECTION**
Li, H.; Wang, X.M.; Liu, W.F.; Wang, Y.J.

**MOVING OBJECT DETECTION BASED ON HFT AND DYNAMIC FUSION**
Li, H.; Wang, Y.J.; Liu, W.F.

**GAUSSIAN KERNEL-BASED FUZZY ROUGH SET FOR INFORMATION FUSION OF IMPERFECT IMAGES**
Shi, Q.; Chen, W.L.; Qin, Q.Q.; Ma, G.R.

**TARGET EXTRACTION FROM SAR IMAGE UNDER THE GUIDE OF GIS**
Liu, M.; Guo, L.; Lu, X.; Wang, Z.G.; Li, C.L.

**MEMORY-BASED PARTICLE FILTER FOR REAL-TIME OBJECT TRACKING**
Niu, X.R.; Wang, Y.J.; Qi, Y.J.

**MEMORY-BASED CODEBOOK MODEL FOR REAL-TIME OBJECT DETECTION**
Niu, X.R.; Wang, Y.J.; Qi, Y.J.

**BINARY CODING-BASED VEHICLE IMAGE CLASSIFICATION**
Peng, Y.S.; Yan, Y.H.; Zhu, W.J.; Zhao, J.L.

**IMAGE QUALITY ASSESSMENT BASED ON INDEPENDENT COMPONENT ANALYSIS**
Luo, C.H.; Wang, Y.; Ding, Y.; Wu, Z.L.

**APPLICATIONS OF CS BASED SPECTRUM RECOVERY IN HYPERSPECTRAL IMAGES**
Sun, J.; Lv, Q.; Yin, J.

**A NEW IMAGE COMPRESSION ALGORITHM BASED ON ROTATING MAPPING AND CURVE FITTING**
Liu, Y.G.; Peng, S.H.

**AN IMPROVED FOG-REMOVING METHOD FOR THE TRAFFIC MONITORING IMAGE**
Zhang, W.L.; Chen, W.B.; Wang, Z.Z.; Li, H.L.

**DE-NOISING OF SAR IMAGES BASED ON WAVELET-CONTOURLET DOMAIN AND PCA**
Fang, J.; Wang, D.; Xiao, Y.; Ajay, D.

**INFRARED AND VISIBLE IMAGE FUSION BASED ON OBJECT EXTRACTION AND ADAPTIVE PULSE COUPLED NEURAL NETWORK VIA NON-SUBSAMPLED SHEARLET TRANSFORM**
Sun, W.; Hu, S.H.; Liu, S.Q.; Sun, Y.C.

**GAIT RECOGNITION BASED ON CONTOURLET TRANSFORM AND**

---

880
887
891
895
900
905
909
913
918
922
928
934
938
942
946
952
COLLABORATIVE REPRESENTATION
Jia, J.R.; Ruan, Q.Q.

STUDY OF A BINOCULAR VISION-BASED FINGERTIP POSITIONING SYSTEM
Sun, N.

TRAFFIC SIGN RECOGNITION USING HOG-SVM AND GRID SEARCH
Yao, C.; Wu, F.; Chen, H.J.; Hao, X.L.; Shen, Y.

REDUCED-REFERENCE IMAGE QUALITY ASSESSMENT BASED ON PHASE
INFORMATION IN COMPLEX WAVELET DOMAIN
Lin, Z.C.; Zheng, Z.F.; Guo, R.H.; Pei, L.F.

A NEW BAG OF WORDS MODEL BASED ON FUZZY MEMBERSHIP FOR IMAGE
DESCRIPTION
Li, Y.S.; Xie, W.X.; Gao, Z.J.; Huang, Q.H.; Cao, Y.J.

LARGE-SCALE CROSS-MEDIA RETRIEVAL BY HETEROGENEOUS FEATURE
AUGMENTATION
Li, Q.; Han, Y.; Dang, J.

AN IMPROVED FRUC SCHEME BASED ON MOTION VECTOR REFINEMENT
Zhao, Y.; Sun, G.X.; Liu, J.; Ge, J.; Wan, W.B.; Yang, X.H.

EDGE ANALYZING AND DEFOCUS ESTIMATING OF A SINGLE IMAGE
Shen, X.H.; Li, Z.; Liu, M.H.; Wang, Y.K.; Chang, Y.C.

SEMANTIC SEGMENTATION OF POLARIMETRIC SAR IMAGE VIA THE
UNIFORM HOMOGENEITY SLICE
Bai, Y.; Huang, X.J.; Ru, H.; Huang, P.P.

SUPERPARSING BASED CHANGE DETECTION IN HIGH RESOLUTION
REMOTE SENSING IMAGERY
Ru, H.; Yang, X.L.; Peng, D.Q.; Huang, P.P.

A NOVEL SCHEME OF UNSUPERVISED TARGET DETECTION FOR
HIGH-RESOLUTION SAR IMAGE
Tu, S.; Li, Y.; Su, Y.

SUPERVISED FEATURE SELECTION FOR POLARIMETRIC SAR
CLASSIFICATION
Bai, Y.; Peng, D.Q.; Yang, X.L.; Chen, L.J.; Yang, W.

RESEARCH ON FABRIC DEFECT DETECTION VIA DIFFERENT FILTERS
COMBINATION IN NSCT
Zhang, Y.Y.; Han, R.P.

A REGULARIZED RESTORATION MODEL BASED ON GEOMETRICAL
FEATURES AND NOISE EVALUATION
Yu, X.Y.; Luo, X.Y.; Luo, S.W.; Huang, Y.P.

A NOVEL VISUAL PERCEPTION ENHANCEMENT ALGORITHM FOR
HIGH-SPEED RAILWAY IN THE LOW LIGHT CONDITION
Lyu, G.H.; Huang, H.; Yin, H.; Luo, S.W.; Jiang, X.L.

MULTI-VIEW LAPLACIAN SPARSE FEATURE SELECTION FOR WEB IMAGE
ANNOTATION

xiv
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTOMATIC 3D FACIAL EXPRESSION RECOGNITION BASED ON POLYTPIC LOCAL</td>
<td>1030</td>
</tr>
<tr>
<td>BINARY PATTERN</td>
<td></td>
</tr>
<tr>
<td>Li,X.L.;Ruan,Q.Q.;An,G.Y.;Jin,Y.</td>
<td></td>
</tr>
<tr>
<td>AN ALGORITHM OF FACE ALIGNMENT AND RECOGNITION BY SPARSE AND LOW</td>
<td>1036</td>
</tr>
<tr>
<td>RANK DECOMPOSITION</td>
<td></td>
</tr>
<tr>
<td>Guo,X.H.;Zhao,R.ZH.;An,G.Y.;Cen,Y.G.;Wang,H.Y.</td>
<td></td>
</tr>
<tr>
<td>J.a Medical Image Processing and Understanding</td>
<td>1041</td>
</tr>
<tr>
<td>MAXIMUM ENERGY TRACKING APPROACH TO RECONSTRUCTING HUMAN CARDIAC</td>
<td></td>
</tr>
<tr>
<td>FIBERS FROM DTI</td>
<td></td>
</tr>
<tr>
<td>Song,X.;Yang,F.;Fanton,L.;Croisille,P.;Zhu,Y.M.</td>
<td></td>
</tr>
<tr>
<td>MICRO-EMBOLIC SIGNAL CHARACTERIZATION BASED ON LONG TIME DOPPLER</td>
<td>1046</td>
</tr>
<tr>
<td>TIME-FREQUENCY IMAGE PROCESSING AND STATISTICS</td>
<td></td>
</tr>
<tr>
<td>Lin,F.;Saglio,C.;Almar,M.;Guibert,B.;Delachartre,P.</td>
<td></td>
</tr>
<tr>
<td>A VARIATIONAL SHEARLET-BASED MODEL FOR AORTIC STENT DETECTION</td>
<td>1052</td>
</tr>
<tr>
<td>Farouj,Y.;Navarro,L.;Clausel,M.;Delachartre,P.</td>
<td></td>
</tr>
<tr>
<td>DISTANCE REGULARIZED CURVE EVOLUTION: A FORMULATION USING CREASENESS</td>
<td>1061</td>
</tr>
<tr>
<td>FEATURES FOR DERMOSCOPIC IMAGE SEGMENTATION</td>
<td></td>
</tr>
<tr>
<td>Riaz,F.;Hassan,A.;Zeb,J.</td>
<td></td>
</tr>
<tr>
<td>MYOCARDIAL MOTION ESTIMATION USING OPTICAL FLOW WITH MULTIPLE</td>
<td>1066</td>
</tr>
<tr>
<td>CONSTRAINT EQUATIONS</td>
<td></td>
</tr>
<tr>
<td>Wang,L.;Liu,Z.;Clarysse,P.;Croisille,P.;Girard,P.R.;Liu,W.;Delachartre,P.</td>
<td></td>
</tr>
<tr>
<td>IMAGE PREPROCESSING FOR COLOR DOPPLER FLOW ANTIALIASING USING POWER</td>
<td>1072</td>
</tr>
<tr>
<td>AND COMPLEX PHASE DATA</td>
<td></td>
</tr>
<tr>
<td>Yatchenko,A.;Krylov,A.;Gavrilov,A.;Sandrikov,V.;Kulagina,T.</td>
<td></td>
</tr>
<tr>
<td>COST-SENSITIVE FEATURE SELECTION IN MEDICAL DATA ANALYSIS WITH TRACE</td>
<td>1077</td>
</tr>
<tr>
<td>RATIO CRITERION</td>
<td></td>
</tr>
<tr>
<td>A COMPARISON OF THREE IMAGING ALGORITHMS ON RECONSTRUCTING TUMOR</td>
<td>1083</td>
</tr>
<tr>
<td>TARGET IN ACOUSTIC HETEROGENEOUS TISSUE WITH REALISTIC NUMERICAL</td>
<td></td>
</tr>
<tr>
<td>BREAST PHANTOMS IN M</td>
<td></td>
</tr>
<tr>
<td>Wang,J.G.;Zhao,Z.Q.;Song,J.;Zhu,X.Z.;Liu,Q.H.</td>
<td></td>
</tr>
<tr>
<td>AUTOMATIC MULTIBAND SAR IMAGE REGISTRATION USING SPARSE-BASED</td>
<td>1090</td>
</tr>
<tr>
<td>DESPECKLING AND AFFINE SCALE INvariant TRANSFORM</td>
<td></td>
</tr>
<tr>
<td>Sun,X.H.;Yu,Q.Z.;Zhang,Y.;Hua,S.</td>
<td></td>
</tr>
<tr>
<td>RESEARCH ON DETECTION OF PROSTATE CANCER MR IMAGES BASED ON</td>
<td>1094</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
INFORMATION FUSION
Zhang, L.B.; Ma, W.J.; Chen, L.; Zhang, S.

IMAGING-BASED SIZE MEASUREMENT OF FINE PARTICLES FROM INDUSTRIAL STACKS
Wang, L.P.; Zhang, L.; Yan, Y.; Huang, X.B.

AN INTEGRATED SIMULATION APPROACH FOR CONTRAST-ENHANCED MICROWAVE INDUCED THERMO-ACOUSTIC TOMOGRAPHY
Song, J.; Zhao, Z.Q.

MEASUREMENT MATRIX DESIGN FOR HYPERSPECTRAL IMAGE COMPRESSIVE SENSING
Huang, B.C.; Wan, J.W.; Nian, Y.J.

AN INTEGRATED SIMULATION APPROACH FOR CONTRAST-ENHANCED MICROWAVE INDUCED THERMO-ACOUSTIC TOMOGRAPHY
Song, J.; Zhao, Z.Q.

MEASUREMENT MATRIX DESIGN FOR HYPERSPECTRAL IMAGE COMPRESSIVE SENSING
Huang, B.C.; Wan, J.W.; Nian, Y.J.

DYNAMIC FEATURES EXTRACTION METHOD OF RESTING-STATE BOLD-FMRI SIGNAL AND ITS APPLICATION TO BRAIN DATA CLASSIFICATION BETWEEN NORMAL AND GLIOMA
Zhang, W.B.; Wang, Z.Y.; Dou, W.B.; Wang, X.; Lu, M.; Zhang, M.Y.; Chen, H.Y.; Li, S.W.

IMAGE RECONSTRUCTION FROM LIMITED-ANGLE PROJECTIONS USING SPARSIFYING OPERATORS
Luo, J.H.; Li, W.Q.; Zhu, Y.M.

K. PDE for Image Processing

GAC-BASED COLOR IMAGE SELECTIVE SEGMENTATION UNDER GEOMETRICAL CONSTRAINTS
Yu, Y.; Li, S.R.; Wang, X.Q.; Man, L.

L. Video Compression & Streaming

EFFICIENT KEY-FRAME EXTRACTION BASED ON UNIMODALITY OF FRAME SEQUENCES
Chasanis, V.; Ioannidis, A.; Likas, A.

SELF ADAPTIVE SKIPPING LEVELS BASED ON THE L1-TRACKER
Lyu, Z.H.; Zhao, S.R.; Yue, C.X.; Pei, X.B.; Liang, H.

VIDEO RECONSTRUCTION USING INDUCTIVE THREE DIMENSIONAL SPARSITY MEASURE
Kang, B.; Zhu, W.P.; Yan, J.

A NOVEL COMPRESSION AND RECONSTRUCTION ALGORITHM FOR AERIAL IMAGE SEQUENCE
Xu, C.; Huang, D.Q.; Han, W.

M. Computer Vision & VR

PITCH ANGLE ESTIMATION USING A VEHICLE-MOUNTED MONOCULAR
CAMERA FOR RANGE MEASUREMENT
Li,B.;Zhang,X.L.;Sato,M.

ACCURACY ANALYSIS OF AN AUGMENTED REALITY SYSTEM
Belhaoua,A.;Kornmann,A.;Radoux,J.P.

KINECT DEPTH MAP RESTORATION USING MODIFIED EXEMPLAR-BASED
INPAINTING
Voronin,V.V.;Fisunov,A.V.;Marchuk,V.I.;Tokareva,S.V.;Levina,O.S.

REGION EDGE HISTOGRAM: A NEW FEATURE FOR REGION-BASED
TRACKING

ESTIMATE THE ATTITUDE OF THE CAMERA FROM THE
RAILWAY-ENVIRONMENT IMAGES

AN IMPROVED SHADOW REMOVAL ALGORITHM BASED ON GRADIENT
AMENDMENT
Chen,Z.X.;Zhao,Y.;Huang,X.;Liang,X.H.;Yuan,Y.L.;Hu,X.F.

A LICENSE PLATE SEGMENTATION ALGORITHM BASED ON MSER AND
TEMPLATE MATCHING
Yang,X.;Zhao,Y.;Fang,J.;Lu,Y.W.;Zhang,Y.L.;Yuan,Y.L.

DECISION-TREE-BASED ALGORITHM FOR 3D SIGN CLASSIFICATION
Yao,D.F.;Jiang,M.H.;Abulizi,A.;You,X.

VISION-AIDED ATTITUDE ERROR COMPENSATION FOR MARINE
STRAPDOWN INERTIAL NAVIGATION SYSTEM
Zhang,H.L.;Guo,P.Y.

FACE RECOGNITION BASED ON THE FEATURE FUSION IN FRACTIONAL
FOURIER DOMAIN
Sun,H.J.;Chen,E.Q.;Qi,L.

AIRBORNE VISION-AIDED LANDING NAVIGATION SYSTEM FOR FIXED-WING
UAV
Guo,P.Y.;Li,X.;Gui,Y.;Zhou,X.;Zhang,H.L.;Zhang,X.H.

LS-SVM FOR A POINT TARGET MOTION MEASUREMENT
Li,X.;Guo,P.Y.;Zhang,H.L.;Zhang,X.H.

FRACTAL FEATURES FOR OBJECT RECOGNITION
Zhou,Y.;Liang,J.N.

BODY PART RECOGNITION BASE ON HIERARCHY RANDOM FOREST
WITH FEATURE PRE-SELECTION

MARKLESS AUGMENTED REALITY REGISTRATION ALGORITHM BASED ON
ORB
Du,Y.Y.;Miao,Z.J.;Cen,Y.G.

A HIERARCHICAL METHOD FOR PEDESTRIAN DETECTION WITH RANDOM
FORESTS
Xiang, T.; Li, T.; Ye, M.; Nie, X.; Zhang, C.

3D RECONSTRUCTION BASED ON KINECT
Li, L.; Miao, Z.J.; Liang, M.G.

THE RESEARCH ON 3D EFFECTS BASED ON VISUAL COMFORT
He, Y.; Yang, L.; Yang, Y.; Li, S.C.

HUMAN POSE ESTIMATION BASED ON CONSTRAINT PICTORIAL STRUCTURE MODEL
Luo, W.Y.; Ruan, Q.Q.

AUTOMATICAL GENDER DETECTION FOR UNCONSTRAINED VIDEO SEQUENCES BASED ON COLLABORATIVE REPRESENTATION
Lu, L.J.; Liu, W.Y.; Wen, Y.D.; Zou, Y.X.

A DEEP GRAPH EMBEDDING NETWORK MODEL FOR FACE RECOGNITION
Gan, Y.F.; Yang, T.; He, C.

IMAGE CLASSIFICATION WITH A DEEP NETWORK MODEL BASED ON COMPRESSIVE SENSING
Gan, Y.F.; Zhuo, T.; He, C.

RESEARCH ON INTERACTIVE BICYCLE ROAMING SYSTEM
Wang, L.L.; Fan, Y.Y.

SYNCHRONIZATION OF CAMERAS FROM HUMAN MOTION USING FEATURE POINTS
Wang, J.J.; Miao, Z.J.; Liang, Q.H.

A LIP LOCALIZATION METHOD BASED ON HSV TRANSFORMATION IN SMART PHONE ENVIRONMENT
Yan, L.; Ye, H.; Wang, Y.K.; Chang, Y.C.

DATA PROCESSING TECHNOLOGY OF 3D POINTS CLOUD
Wang, L.H.; Wang, H.Y.; Wang, Z.Q.

ABING: ADJUSTED BINARIZED NORMED GRADIENTS FOR OBJECTNESS MEASURE
Tian, W.J.; Zhao, Y.; Yuan, Y.L.

MONOCULAR STEREO IMAGING USING BI-SLIT PROJECTIONS FROM FORWARD MOTION VIDEO
Wang, S.C.; Luo, X.Y.; Huang, Y.P.; Yin, H.

LIP READING BASED ON CASCADE FEATURE EXTRACTION AND HMM
Wu, D.; Ruan, Q.Q.

CARRIED OBJECT DETECTION IN SHORT VIDEO SEQUENCES
Yuan, B.; Ruan, Q.Q.; An, G.Y.

LOCAL NON-NEGATIVE COMPONENT REPRESENTATION FOR HUMAN ACTION RECOGNITION
Tian, Y.; Ruan, Q.Q.; An, G.Y.; Liu, R.Y.

N. Multimedia & Human-computer Interaction

VIDEO RETRIEVAL ALGORITHM BASED ON VIDEO FINGERPRINTS AND...
SPATIOTEMPORAL INFORMATION
Liu,W.; Jia, K.B.; Wang, Z.Z.; Feng, J.C.

ANIMATING WRINKLES ON CLOTH BASED ON IMPLICIT SURFACE
Zhou, L.L.; Han, H.J.

TENSOR MODELING AND INTERPOLATION FOR DISTANCE-DEPENDENT HEAD-RELATED TRANSFER FUNCTION
Huang, Q.; Liu, K.; Fang, Y.

DESIGN OF HOTSPOT LABELING SYSTEM IN INTERACTIVE VIDEO
Cong, D.J.; Shi, P.; Wu, K.; Huang, H.

WEAKLY SUPERVISED HMM LEARNING FOR SPOKEN WORD ACQUISITION IN HUMAN COMPUTER INTERACTION WITH LITTLE MANUAL EFFORT
Sun, M.; Vanhamme, H.; Zhang, X.

O. Statistic Learning & Pattern Recognition

DATA COMPARISON USING GAUSSIAN GRAPHICAL MODELS
Costard, A.; Achard, S.; Michel, O.; Borgnat, P.; Abry, P.

A ROBUST LEARNING ALGORITHM BASED ON SURF AND PSM FOR FACIAL EXPRESSION RECOGNITION
Chen, J.H.; Lin, X.Y.; Takiguchi, T.; Ariki, Y.

TEXTURE IMAGE CLASSIFICATION BASED ON USING DESCRIPTOR OF INDEXES
Sherstobitov, A.; Timofeev, D.; Marchuk, V.; Voronin, V.; Fedosov, V.

A NEW FEATURE SELECTION METHOD BASED ON RELIEF AND SVM-RFE
Fu, R.G.; Wang, P.; Gao, Y.H.; Hua, X.Q.

A FEATURE LEVEL FUSION TARGET RECOGNITION ALGORITHM BASED ON DYNAMIC FUZZY INTEGRAL
Wu, D.Y.; Lu, H.Z.; Qiu, C.Z.; Li, X.

STEGANALYSIS USING FEATURES BASED ON MARKOV MESH MODELS
Shi, X.Y.; Liu, B.B.; Hu, Y.J.

A NEW ITEM RECOMMEND ALGORITHM OF SPARSE DATA SET BASED ON USER BEHAVIOR ANALYZING
Liu, D.; Lu, Y.X.; Zhang, Y.S.; Guo, L.Y.

UNSUPERVISED IMAGE CATEGORIZATION WITH IMPROVED SPECTRAL CLUSTERING
Yang, J.; Miao, Z.J.; Wu, H.

A JOINT CLASSIFICATION APPROACH VIA SPARSE REPRESENTATION FOR FACE RECOGNITION
Wen, Y.D.; Xiang, Y.J.; Fu, Y.L.

EVIDENCE COMBINATION BASED ON CREDIBILITY AND SEPARABILITY
Song, Y.F.; Wang, X.D.; Lei, L.; Xue, A.J.

OBJECT RECOGNITION BASED ON ORB AND SELF-ADAPTIVE KERNEL CLUSTERING ALGORITHM

XIX
A RESEARCH OF OPTIMAL REJECTION THRESHOLDS BASED ON ROC CURVE
Zhao, Z.Z.; Wang, X.D.

LAPLACIAN REGULARIZED CO-TRAINING
Li, Y.; Liu, W.F.; Wang, Y.J.

THE RESEARCH OF SPACECRAFT ELECTRICAL CHARACTERISTICS IDENTIFICATION AND DIAGNOSIS USING PCA FEATURE EXTRACTION
Liu, Y.; Li, K.; Song, S.M.; Sun, Y.; Huang, Y.; Wang, J.

FACIAL EXPRESSION RECOGNITION WITH LBP AND SLPP COMBINED METHOD
Han, D.; Ming, Y.

KERNEL COLLABORATIVE REPRESENTATION FOR FACE RECOGNITION
Zhao, J.; Wang, Y.J.; Liu, B.D.

ORTHOGONAL-VIEW BASED COMPRESSIVE MOTION CLASSIFICATION USING PYROELECTRIC INFRARED SENSORS
Guan, Q.; Yin, X.; Guo, X.; Wang, G.; Luo, X.

DYNAMICALLY REGULARIZED MAXIMUM LIKELIHOOD LEARNING OF GAUSSIAN MIXTURES
Ma, J.W.; Wang, H.Y.

A DISCRIMINANT NONNEGATIVE TENSOR FACTORIZATION METHOD BASED ON SPARSE REPRESENTATION CLASSIFIER
Sun, Y.Y.; Xu, S.L.; Wu, J.Y.; An, G.Y.

MATCHING NIR FACE TO VIS FACE USING MULTI-FEATURE BASED MSDA
Li, J.; Jin, Y.; Ruan, Q.Q.

DOUBLE SPARSE LOCAL FISHER DISCRIMINANT ANALYSIS FOR FACIAL EXPRESSION RECOGNITION
Wang, Z.; Ruan, Q.Q.; An, G.Y.

SPARSE LOCAL FISHER DISCRIMINANT ANALYSIS FOR FACIAL IMAGE ANALYSIS
Guo, S.; Ruan, Q.Q.; Wang, Z.; An, G.Y.

SPARSE REPRESENTATION VIA MULTI-FEATURE BASED FISHER DISCRIMINATION DICTIONARY LEARNING
Bian, P.; Zhang, X.Y.

MATCHING IN MEMRISTOR BASED AUTO-ASSOCIATIVE MEMORY WITH APPLICATION TO PATTERN RECOGNITION
Yang, Y.; Mathew, J.; Pradhan, D.

RESEARCH ON RUNOFF PREDICTION BASED ON WAVELET TRANSFORM AND LEAST SQUARES SUPPORT VECTOR MACHINES MODEL
Zhang, F.P.; Tang, D.S.; Zhang, M.H.; Dai, H.C.
A NOVEL MORPHOLOGY DOMAIN DESCRIPTION METHOD FOR VISUAL ONE-CLASS CLASSIFICATION
Qu, J.L.; Sun, W.Z.; Gao, F.; Lin, M.J.; Zhou, Y.P.

DESIGN OF SVM BASED ON RADICAL BASIS FUNCTION NEURAL NETWORKS PRE-PARTITION
Guan, L.X.; Xie, W.X.; Pei, J.H.

DYNAMICALLY REAL-TIME COMPUTER FORENSICS PARADIGM WITH IMMUNE
Peng, L.X.; Zhang, Q.Y.

A PRE-RADICAL BASIS FUNCTION WITH DEEP BACK PROPAGATION NEURAL NETWORK RESEARCH
Wen, H.; Xie, W.X.; Pei, J.H.

TECHNIQUES FOR INTUITIONISTIC FUZZY KERNEL CLUSTERING BASED ON PARTICLE SWARM OPTIMIZATION
Song, Y.F.; Wang, X.D.; Lei, L.; Xue, A.J.

INDOOR LOCATION ALGORITHM RESEARCH BASED ON NEURAL NETWORK
Deng, C.; Xu, Z.

SEU-TOLERANT RESTRICTED BOLTZMANN MACHINE LEARNING ON DSP-BASED FAULT DETECTION
Jian, S.L.; Jiang, J.F.; Lu, K.; Zhang, Y.P.

ISING-LIKE MODEL FOR NEURAL REPRESENTATION OF NATURAL IMAGES
Lu, X.K.; Zhu, W.Y.; Zhao, Z.Y.; Xu, Q.M.

TIME-INVARIANT LYAPUNOV MATRIX EQUATION SOLVING BY NEURAL NETWORKS WITH SIMULINK MODELS
Liu, Y.H.

Q. Communication Signal Processing

DUAL PORT RAM BASED LAYERED DECODING FOR MULTI RATE QUASI-CYCLIC LDPC CODES
Yesil, S.; Arslan, M.

OVERSAMPLED DIGITAL-TO-ANALOG CONVERTER FOR NOISE REDUCTION IN POLAR TRANSMITTERS
Ibrahim, M.; Yang, B.; Menkhoff, A.

ADAPTIVE ALGORITHM FOR MIMO-SYSTEM OF THE WIRELESS ACCESS FOR THE RECEIVER OF THE MOBILE STATION
Fedosov, V.P.; Emelyanenko, A.V.; Ternovaya, N.O.; Rubtsov, R.V.; Marchuk, V.I.

METHOD OF FRAME FILTERING TABLE DESIGN WITHOUT SEARCHING KEY STORING
Makov, S.; Marchuk, V.; Sherstobitov, A.; Frantc, V.
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW-COMPLEXITY SOFT-INPUT SOFT-OUTPUT DETECTION BASED ON EVD FOR MIMO SYSTEMS</td>
<td>1546</td>
</tr>
<tr>
<td>Yang, Y.; Li, C.Q.; Guo Z.H.</td>
<td></td>
</tr>
<tr>
<td>PARAMETERS ESTIMATION ACCURACY ANALYSIS FOR COMP SYSTEM</td>
<td>1551</td>
</tr>
<tr>
<td>Jia, G.Q.; Chen, S.J.; Chen, C.; Ji, X.H.</td>
<td></td>
</tr>
<tr>
<td>PERFORMANCE ANALYSIS OF LOG-NORMAL AND RAYLEIGH-LOGNORMAL FADING CHANNELS</td>
<td>1557</td>
</tr>
<tr>
<td>Tang, C.Q.; Liu, H.Q.; Pan, G.F.</td>
<td></td>
</tr>
<tr>
<td>POWER SPECTRUM ANALYSIS OF INTERFERENCE TO A BEIDOU SATELLITE RECEIVER FROM UWB IMPULSE RADIO SYSTEMS</td>
<td>1561</td>
</tr>
<tr>
<td>Lu, T.T.; Zhang, H.; Cui, X.R.; Gulliver, T.A.</td>
<td></td>
</tr>
<tr>
<td>A JOINT RANDOM WEIGHTING METHOD FOR PHYSICAL LAYER SECURITY IN WIRELESS RELAY SYSTEM</td>
<td>1566</td>
</tr>
<tr>
<td>Guo, S.X.; Ji, X.S.; Ma, K.M.; Yi, M.</td>
<td></td>
</tr>
<tr>
<td>GREEN COMMUNICATION: ADAPTIVE CARRIER SYNCHRONIZATION SYSTEM DESIGN</td>
<td>1573</td>
</tr>
<tr>
<td>Sun, J.H.; Yu, Z.Y.</td>
<td></td>
</tr>
<tr>
<td>PERFORMANCE OF ITERATIVE OFDM RECEIVER IN DOUBLY SPREAD UNDERWATER ACOUSTIC COMMUNICATION CHANNEL</td>
<td>1579</td>
</tr>
<tr>
<td>Yu, F.Y.; Guo, Q.; Li, D.Z.</td>
<td></td>
</tr>
<tr>
<td>M-ARY SPREAD SPECTRUM OFDM STRUCTURE BASED ON CASCADED CYCLIC SHIFT COMPLEMENTARY PAIRS</td>
<td>1584</td>
</tr>
<tr>
<td>Min, S.Q.</td>
<td></td>
</tr>
<tr>
<td>ON ERGODIC SECRECY RATE OF MULTIUSER MISO DOWNLINK WIRETAP CHANNEL</td>
<td>1590</td>
</tr>
<tr>
<td>Liu, C.W.; Wang, W.J.; Wu, F.L.</td>
<td></td>
</tr>
<tr>
<td>COMPLEX-VALUED SPARSE CHANNEL ESTIMATION METHOD BASED ON SMOOTHED L0 NORM ALGORITHM</td>
<td>1602</td>
</tr>
<tr>
<td>Wang, H.; Guo, Q.; Zhang, G.X.; Li, G.X.</td>
<td></td>
</tr>
<tr>
<td>RESEARCH AND IMPLEMENTATION FOR 2D MMSE CHANNEL ESTIMATION</td>
<td>1608</td>
</tr>
<tr>
<td>Liang, Y.; Zhou, W.O.; Zhou, M.Y.; He, L.</td>
<td></td>
</tr>
<tr>
<td>OPPORTUNISTIC BEAMFORMING WITH BEAM SELECTION IN SPARSE NETWORKS</td>
<td>1613</td>
</tr>
<tr>
<td>Hou, Y.L.; Lian, H.; Su, J.; Cui, H.M.</td>
<td></td>
</tr>
<tr>
<td>THE DESIGN OF HIMAC COPROCESSOR BASED ON HINOC 2.0</td>
<td>1618</td>
</tr>
<tr>
<td>EFFICIENT DIGITAL IF ARCHITECTURE FOR WIDEBAND OFDM SYSTEMS BASED ON CIC FILTER</td>
<td>1622</td>
</tr>
<tr>
<td>Xuan, G.X.; Han, Y.W.; Ren, M.; Zhang, Z.Y.; Zeng, F.X.</td>
<td></td>
</tr>
</tbody>
</table>
JOINT DATA-PILOT ACQUISITION OF GPS L1 CIVIL SIGNAL
Zhou, J.; Liu, C.

COGNITIVE CHANNEL CLASSIFICATION AND PARAMETER ESTIMATION TECHNIQUE FOR UWB THROUGH-WALL PROPAGATION CHANNEL MODELING
Feng, D.; Xue, S. J.; Chen, X.; Chen, W. D.

A SIMPLIFIED ADVANTAGE ACE AND PSO ALGORITHM FOR PAR REDUCTION IN STBC MC-CDMA SYSTEMS
Chung, B. Q.; Zhang, T. Q.; Wu, W. J.

PID-BASED TRANSMISSION POWER CONTROL FOR WIRELESS BODY AREA NETWORK
Guan, T. T.; Yi, C. F.; Qiao, D. Y.; Xu, L. F.; Li, Y.

HYPOTHESIS FEEDBACK EQUALIZATION FOR M-ARY PARALLEL COMBINATORY COMMUNICATION IN DEEP WATER
Shu, X. J.; Wang, J.; Wang, H. B.

A MAC PROTOCOL WITH POWER CONTROL FOR DS-UWB COMMUNICATION SYSTEM
Tao, X. F.; Wang, Y. M.; Li, X. F.; Ji, J. C.

COMMUNICATION PERFORMANCE ANALYSIS OF TDRS SYSTEM MA SERVICE
Jiang, X.; Yin, Z. D.; Cui, K.; Yin, L.; Wu, Z. L.

RESEARCH OF TT&C SIGNAL SPARSITY BASED ON TWO-STAGE DICTIONARY LEARNING
Cheng, Y. H.; Yang, W. G.; Zhao, J.

FLUID MODEL OF MULTIPATH PROTOCOL
Ma, Y. J.; Lu, L. Y.; Wang, W.

A GRAPH-BASED INTERFERENCE TOPOLOGY CONTROL FOR ULTRA-DENSE NETWORKS

ROBUST TRACKING OF MOBILE PRIMARY USER BASED ON INTERVAL ANALYSIS IN COGNITIVE RADIO NETWORKS
Jing, Y.; Ma, L.; Ma, J.; Li, P.; Yang, X. F.; Li, H. Y.; Niu, B.

ON THE PERFORMANCE OF DUAL-HOP RELAYING SYSTEMS IN MIXED MULTIPATH/SHADOWING FADING CHANNELS
Cheng, W. J.

A SIMULATION MODEL FOR SHIP-TO-SHIP RAYLEIGH FADENG CHANNELS
Wang, J. F.; Cui, Y.; Ma, S. X.; Meng, X.; Teng, J. F.

ADAPTIVE SEMI-BLIND CHANNEL ESTIMATION FOR MASSIVE MIMO SYSTEMS
Xu, F. Y.; Xiao, Y.; Wang, D.

THE COMPRESSION OF WIRELESS BASE STATION LTE-IR DATA USING ADAPTIVE FREQUENCY DOMAIN FLOATING-POINT CODING
Yu, W.T.; Chen, J.Y.; Sun, H.; Li, W.

PERFORMANCE ANALYSIS OF MULTIPATH MITIGATION FOR BOC MODULATED SIGNALS BASED ON MULTIPLE GATE DELAY STRUCTURE
Gan, Y.M.

R. SP for Internet and Wireless Communications

CHIP DESIGN OF A HIGH PERFORMANCE LC-VCO AND MIXER CHARGE-INJECTION SIGNAL PROCESSING FOR WIMAX COMMUNICATION AND INTERNET APPLICATION
Lai, W.C.; Huang, J.F.; Yang, P.G.; Lay, W.T.

THE QOS PERFORMANCE IMPROVEMENT IN AVAODV ROUTING PROTOCOL
Sun, X.Q.; Cai, M.G.; Chen, J.Y.; Zhang, P.

APPLICATIONS OF MODULATION SCHEMES OF OUTDOOR FREE-SPACE OPTICAL COMMUNICATION
Fan, D.J.

LOW DENSITY PARITY CHECK CODES WITH QUASI-CYCLIC STRUCTURE AND ZIGZAG PATTERN
Li, W.W.; Chen, B.; Lei, J.; Li, E.B.

AN OFFLOADING ALGORITHM BASED ON CHANNEL QUALITY IN MOBILE INTEGRATION NETWORK
Kou, J.F.; Miao, J.H.; Xiao, Y.; Wang, Y.; Saikrishna, D.A

EXPLORATION OF COGNITIVE SPACE TT&C SYSTEM
Zhao, J.; Yang, W.G.; Cheng, Y.H.

DYNAMIC SPECTRUM ACCESS: A MARKOVIAN APPROACH TO PREDICT PROFITS OF PRIMARY USER

GAME THEORETIC JAMMING CONTROL FOR THE GAUSSIAN INTERFERENCE WIRETAP CHANNEL
Yuan, Z.M.; Wang, S.H.; Xiong, K.; Xing, J.J.

A NEW AGRICULTURE MONITORING SYSTEM BASED ON WSNS
Chang, H.; Zhou, N.; Zhao, X.G.; Cao, Q.M.; Tan, M.; Zhang, Y.B.

MUTUALLY ORTHOGONAL COMPLEMENTARY PAIRS FOR OFDM-CDMA SYSTEMS
Zhang, Z.Y.; Tian, F.C.; Zeng, F.X.; Ge, L.J.; Xuan, G.X.

NON-GAUSSIANITY TESTING BASED ROBUST COMPRESSIVE WIDEBAND SPECTRUM SENSING IN CR NETWORKS
Jing, Y.; Ma, L.; Ma, J.; Li, P.; Niu, B.

CONTROL AND RESTRAIN OF GREEDY FLOWS IN THE WIRELESS NETWORK BASED ON MAC CORRESPONDING FRAMES
Zhou, Z.C.; Xiao, Y.; Wang, D.

S. Biometrics & Authentication
BIOMETRIC AUTHENTICATION CONSTRUCTED FROM QUANTUM ENTROPY DISTRIBUTION FUZZY HASH
Cao, D.; Song, Y.L.

FACIAL EXPRESSION RECOGNITION BY FUSION OF GABOR TEXTURE FEATURES AND LOCAL PHASE QUANTIZATION
Li, L.S.; Ying, Z.L.; Yang, T.R.

A NOVEL FINGER-KNUCKLE-PRINT RECOGNITION BASED ON CONVEX OPTIMIZATION
Xu, Y.; Zhai, Y.K.; Gan, J.Y.; Zeng, J.Y.

T. SP for Bio-medical & Cognitive Science

SAMPLING LATTICE AND SIGNAL RECONSTRUCTION IN URODYNAMICS
Klünder, M.; Sawodny, O.; Feuer, R.; Stenzl, A.; Sievert, K.D.; Amend, B.; Vaegler, M.; Ederer, M.

IMAGE RECONSTRUCTION OF MESOSCOPIC FLUORESCENCE MOLECULAR TOMOGRAPHY BASED ON DUAL-WAVELENGTH MEASUREMENTS
Zou, W.

TREE STRUCTURE BASED MR IMAGE RECONSTRUCTION WITH PARTIALLY KNOWN SUPPORT
Han, Y.; Gao, X.Z.; Du, H.Q.; Dong, Y.Z.; Mei, W.B.

A NEW TIME-OF-FLIGHT (TOF) PICKER FOR TUMOR TISSUE IN MICROWAVE INDUCED THERMO-ACOUSTIC TOMOGRAPHY (MITAT) SYSTEM
Wang, J.G.; Zhao, Z.Q.; Lei, S.W.; Song, J.; Liu, Q.H.

PITCH ACCENT PROCESSING BY UYGHUR AND CHINESE BILINGUALS—EVIDENCE FROM EVENT-RELATED POTENTIALS (ERPs)
Abulizi, A.; Jiang, M.H.; Yao, D.F.; Subinuera

V. Signal Processing for Security

SOUND MASKING EFFICIENCY OF ECHO-TIME-REVERSED MASKER
Huang, W.Q.; Du, A.H.; Wang, J.J.

A 6 DIMENSIONAL CHAOTIC GENERALIZED SYNCHRONIZATION SYSTEM AND DESIGN OF PSEUDORANDOM NUMBER GENERATOR WITH APPLICATION IN TEXT ENCRYPTION
Hao, R.B.; Min, L.Q.; Han, D.D.; Wang, X.

AN IMPROVED CUBATURE PARTICLE PHD FILTER WITH AN ADAPTIVE MEMORY FACTOR
Li, P.F.; Xie, W.X.; Huang, J.X.; Wang, P.; Na, X.Z.

DETECTING THE OPERATION CHAIN IN DIGITAL IMAGES BY TYPE AND
ORDER FINGERPRINT
Chen,Z.;Zhao,Y.;Ni,R.

AN AVALANCHE BLOCK ENCRYPTION SCHEME AND CHAOTIC BLOCK
PSEUDORANDOM NUMBER GENERATOR WITH APPLICATION IN THE IMAGE
ENCRYPTION
Min,L.Q.;Hao,L.J.;Han,D.D.;Zang,H.Y.

IMPROVING PHYSICAL LAYER SECURITY VIA MULTIPLE-LEVEL RELAY
NETWORK
Zhang,P.S.;Ma,Y.Y.;Wang,B.Y.

EXTENDED PHASE CODING METHOD FOR IMPROVING THE SENSITIVITY OF
DOPPLER
Li,S.F.;Jin,L.B.;F. Hu,F.

COMBINED SIFT AND BI-COHcrcncRE FEATURES TO DETECT IMAGE
FORGERY
Zhang,J.;Ruan,Q.Q.;Jin,Y.

STEGANALYSIS TO ADAPTIVE PIXEL PAIR MATCHING USING TWO-GROUP
SUBTRACTION PIXEL ADJACENCY MODEL OF COVERS
Hou,Y.;Ni,R.R.;Zhao,Y.

W . Radar Signal Processing

JOINT ESTIMATION OF THE TARGET HEIGHT AND THE REFLECTING
SURFACE HEIGHT IN LOW ANGLE RADAR
Wang,S.H.;Cao,Y.H.;Su,H.T.

ROTATIONAL PARAMETERS ESTIMATION FOR ISAR IMAGING OF
MANEUVERING TARGET
Wang,Y.;Zhang,R.B.;Kang,J.

ISAR IMAGING WITH RANDOM MISSING OBSERVATIONS BASED ON
NON-ITERATIVE SIGNAL RECONSTRUCTION ALGORITHM
Wang,Y.;Kang,J.;Zhang,R.B.

AN IMPROVED TBD ALGORITHM BASED ON DYNAMIC PROGRAMMING FOR
DIM SAR TARGET DETECTION
Gao,F.;Zhang,F.F.;Zhu,H.;Sun,J.P.;Wang,J.

TRACKING METHODS OF HIGH SPEED STRONG MANEUVERING TARGETS
IN NEAR SPACE
Cao,Y.H.;Jiang,J.;Wang,S.H.;Fan,Y.Y.

SINGLE SCATTERING PART DETECTION OF SAR TARGET BASED ON ITS
PART-BASED SCATTERING MODEL
Ding,B.Y.;Wen,G.J.;Zhong,J.R.;Ma,C.H.

FRANK-CODED LFM WAVEFORMS AND THEIR APPLICATIONS IN MIMO
RADAR
Wang,D.W.;Gu,W.K.;Ma,X.Y.

SPATIAL KALMAN FILTERS AND SPATIAL-TEMPORAL KALMAN FILTERS

1843
1851
1855
1859
1864
1902
Yan, D.; Zhong, Q.; Sui, Y.

STUDY ON DOPPLER CHARACTERIZATION OF LEO BASED ON THREE-DIMENSIONAL RADAR
Yan, D.D.; Li, Z.; Xu, C.

THE LENGTH ESTIMATION OF SHIP TARGETS IN ISAR IMAGES
Yang, H.X.; Su, F.L.; Gao, J.J.

JOINT OPTIMIZATION OF PREDICTIVE MODEL AND TRANSMITTED WAVEFORM FOR EXTENDED TARGET TRACKING
Jin, B.; Su, T.; Zhang, W.; Zhang, L.

AN ADAPTIVE DETECTOR FOR DETECTING TARGET IN CLUTTER PLUS GAUSSIAN NOISE BACKGROUND
Lei, S.; Zhao, Z.; Nie, Z.; Liu, Q.H.

A STAGewise FAST DOA ESTIMATION METHOD BASED ON SPARSE SIGNAL REPRESENTATION
He, K.; Chen, Y.G.; Jia, X.; Jia, L.

RADAR SIGNAL RECONSTRUCTION ALGORITHM BASED ON COMPLEX BLOCK SPARSE BAYESIAN LEARNING
Zhong, J.R.; Wen, G.J.; Ma, C.H.; Ding, B.Y.

PARAMETER ESTIMATION OF WALKING HUMAN BASED ON MICRO-DOPPLER
Sun, Z.S.; Wang, J.; Yuan, C.S.; Bi, Y.X.; Xiang, H.

THRESHOLD DETERMINATION FOR DYNAMIC PROGRAMMING BASED TRACK-BEFORE-DETECT IN PASSIVE BISTATIC RADAR

IMAGING OF FMCW MIMO RADAR WITH INTERLEAVED OFDM WAVEFORM
Cheng, P.; Wang, Z.; Xin, Q.; He, M.

IMPROVED INTEGRATED CUBIC PHASE FUNCTION BASED ON THE NUFFT
Zhu, W.T.; Su, T.; Zheng, J.B.

NON-PARAMETRIC MULTI-TARGET TRACKING WITH DOPPLER MEASUREMENTS
Zhou, G.; Ma, D.; Quan, T.F.

A NOVEL HELICOPTER-BORNE TERAHertz SAR IMAGING ALGORITHM BASED ON KEYSTONE TRANSFORM
Wang, H.; Zhang, Y.; Wang, B.B.; Sun, J.P.

A CFAR DETECTOR BASED ON ORTHOGONAL WAVELET TRANSFORM
Jian, T.; Liao, G.S.; He, Y.; Shen, J.

MILLIMETER-WAVE SPOTLIGHT CIRCULAR SYNTHETIC APERTURE RADAR (SC-SAR) IMAGING FOR FOREIGN OBJECT DEBRIS ON AIRPORT RUNWAY
Cong, X.C.; Liu, J.B.; Long, K.Y.; Liu, Y.L.; Zhu, R.Q.; Wan, Q.

MULTIPLE-VIEWS REAL ARRAY IMAGING FOR TERAHertz RADAR
Wang, R.J.; Wang, H.Q.; Gao, J.K.; Deng, B.; Qin, Y.L.; Zhuang, Z.W.

AN IMPROVED CS IMAGING ALGORITHM FOR GEO SAR BASED ON CUBIC
PHASE COMPENSATION IN SQUINT MODEL
Jiang, Y.C.; Di, X.N.

AMBIGUITY RESOLUTION BASED ON MODULATION SYMBOLS
Qian, T.; Hou, J.G.; Li, L.; Tian, J.; Cui, W.

USING PERSYMMETRIC PROPERTY IN KNOWLEDGE-AIDED SPACE-TIME ADAPTIVE PROCESSING
Zhao, Y.; Lu, S.T.; Wang, H.; Sun, J.P.

SURFACE MOVEMENT RADAR TARGET DETECTION

A CHAOS-BASED PHASE-CODED OFDM SIGNAL FOR JOINT RADAR-COMMUNICATION SYSTEMS
Zhao, J.J.; Huo, K.; Li, X.

A STRUCTURED ASIC BASED IMPLEMENTATION PLATFORM FOR DIGITAL RADAR RECEIVER
Pang, L.; Li, X.; Luo, Y.D.

INFLUENCE OF BISTATIC SHIPBORNE HFSWOTH PLATFORM OSCILLATION ON THE SEA CLUTTER
Ji, Z.Y.; Jiang, X.; Xie, J.H.; Wang, Y.F.; Ding, J.

DISPERSSIVE COEFFICIENT CALCULATION FOR SPHERICAL STRATIFIED IONOSPHERE
Zhu, Y.P.; Wei, Y.S.; Li, Y.J.

IMPROVED ADAPTIVE SCHEDULING ALGORITHM FOR REAL-TIME DWELLS IN MULTIFUNCTION PHASED ARRAY RADARS
Zhang, Y.; Yuan, Y.N.; Wang, J.; Xiang, H.

SUB-SEQUENCE PRINCIPAL COMPONENT APPROXIMATION DENOISING FOR RADAR HIGH RESOLUTION RANGE PROFILING
Li, M.; Zhou, G.J.; Zhao, B.; Quan, T.F.

PASSIVE IMAGING USING MULTIPLE NAVIGATION SATELLITES AS ILLUMINATOR OF OPPORTUNITY
Yin, Z.P.; Zhao, H.J.; Wang, T.Y.; Chen, W.D.

RESEARCH ON THE CTS-SAR IMAGING
Liu, Z.H.; Deng, C.Q.; Wang, X.; Jiang, T.

COGNITIVE RADAR: CRITICAL TECHNIQUES AND LIMITS
Quan, S.J.; Qian, W.P.; Guo, J.H.; Zhang, Y.

A COMPARISON TO JOINT PIXEL VECTOR METHODS FOR CLUTTER SUPPRESSION IN SAR-GMTI SYSTEM
Liu, X.; Meng, J.; Lin, H.; Li, X.; Zhao, H.

SMALL TARGET OF SEA SURFACE DETECTION ALGORITHM RESEARCH BASED ON FEATURE CLASSIFICATION
Yu, L.Q.; Li, Y.; Wang, N.; Jiang, J.

DOPPLER COMPENSATION ALGORITHM BASED ON CONJUGATE NOISE GROUP

2022

2026
Wang, Z.; Gu Hong, G.; Su, W.M.; Chen, Z.R.

LOW-GRAZING ANGLE DETECTION IN COMPOUND-GAUSSIAN CLUTTER WITH MIMO RADAR

CHIRP PARAMETER ESTIMATION FROM TENSOR DECOMPOSITION
Ge, M.Y.; Wei, G.H.; Zhou, X.P.

HIGH RESOLUTION OF ISAR IMAGING BASED ON ENHANCED SPARSE BAYESIAN LEARNING
Su, W.G.; Wang, H.Q.; Deng, B.; Qin, Y.L.; Ling, Y.S.

A SIGNAL CANCELLATION METHOD BASED ON MULTIPLE PARAMETERS ESTIMATION
Wang, N.; Ren, J.Q.; Meng, J.L.; Chen, Y.; Fu, Y.G.

AN NEW EXPLANATION OF PULSE COMPRESSION BASED ON TIME-FREQUENCY DISTRIBUTION
Tan, J.; Wen, B.Y.; Tian, Y.W.

A NEW WAVEFORM DESIGN METHOD FOR TARGET DETECTION IN THROUGH-THE-WALL RADAR APPLICATION
Xue, S.J.; Chen, X.; Feng, D.; Wang, T.Y.; Chen, W.D.

APPLICATION OF COMPRESSIVE SENSING TO ANGLE-DOPPLER PROCESSING WITHOUT KNOWLEDGE-AID
Shi, J.L.; Zhang, X.; Deng, W.B.

HIGH SPEED MOVING TARGET DETECTION USING DISTRIBUTED OFDM-MIMO PHASED RADAR
Gu, W.K.; Wang, D.W.; Ma, X.Y.

RANGE-AZIMUTH SAR IMAGING BASED ON BAYESIAN COMPRESSIVE SENSING
Gao, J.K.; Deng, B.; Su, W.G.; Qin, Y.L.; Li, X.

GRATING LOBE MITIGATION BASED ON EXTENDED COHERENCE FACTOR IN SPARSE MIMO UWB ARRAY

A NEW WALL CLUTTER REDUCTION STRATEGY FOR THROUGH WALL RADAR IMAGING
Chen, X.; Xue, S.J.; Feng, D.; Chen, W.D.

A HIGH PERFORMANCE SYSTEM-ON-CHIP ARCHITECTURE FOR DIGITAL WIDEBAND RADAR RECEIVER
Pang, L.; Zhao, M.; Luo, Y.D.

GROUND MOVING TARGET INDICATION FOR SINGLE SAR IMAGERY BASED ON SPARSE REPRESENTATION
Shi, H.Y.; Zhao, X.Y.

MICRO-DOPPLER SEPARATION FROM TIME FREQUENCY DISTRIBUTION BASED ON DIRECTION PATTERN
Chen, Z.R.; Gu, H.; Su, W.M.; Wang, Z.
AN IMPROVED DYNAMIC PROGRAMMING TRACK-BEFORE-DETECT ALGORITHM FOR RADAR TARGET DETECTION

SAR IMAGE DESPECKLING WITH STRUCTURE PRESERVING
Liu, Z.; Yu, L.; Sun, H.

A VB-IMM FILTER FOR ADS-B DATA
Wang, Q.H.; Huang, J.J.

MULTIPLE-ELEMENT RETRODIRECTIVE CROSS-EYE JAMMING AGAINST AMPLITUDE-COMPARISON MONOPULSE RADAR
Liu, T.P.; Wei, X.Z.; Li, L.

HYDRODYNAMIC MODULATION OF SEA FREE AND BOUND WAVES MODULATED BY THE ONE-DIMENSIONAL VARIANT CURRENT
Liu, L.; Chong, J.S.; Wang, X.Q.; Zhu, A.W.; Li, Z.J.

SIMULATION STUDY ON RFI SIGNAL IN IMPULSE UWB RADAR SYSTEM WITH EQUIVALENT TIME SAMPLING
Wang, S.S.; Chai, S.L.; Xiao, K.; Liu, Y.

MULTIPATH MODEL AND GHOSTS LOCALIZATION IN ULTRA-WIDE BAND VIRTUAL APERTURE RADAR
Qiu, L.; Jin, T.; Zhou, Z.M.

MIMO-SAR GROUND MOVING TARGET IMAGING IN HRWS MODE
Chao, X.; Wang, L.B.; Wang, D.W.; Wang, L.; He, Y.F.

ADAPTIVE DIRECT SIGNAL AND CLUTTER CANCELLATION BASED ON PHASE-OFFSET BLMS FILTER IN PASSIVE RADAR

X. Sonar Signal Processing and Localization

RESEARCH ON THE NONLINEAR MODELING AND PREDICTION METHOD OF UNDERWATER ACOUSTIC SIGNALS
Wu, Y.N.; Sun, Y.; Hu, Z.X.

A METHOD BASED ON WAVELET PACKETS-FRACTAL AND SVM FOR UNDERWATER ACOUSTIC SIGNALS RECOGNITION
Li, H.T.; Cheng, Y.S.; Dai, W.G.; Li, Z.Z.

PHASE FEATURE EXTRACTION OF ECHO FOR POINT TARGET
Wu, Y.Q.; Song, H.J.; Yan, S.F.

Y. SP for Sensor Networks

THE SEQUENTIAL PHD FILTER FOR NONLINEAR AND GAUSSIAN MODELS
Liu, Z.X.; Xie, W.X.

LOCALIZATION IN WSN USING MAXIMUM LIKELIHOOD ESTIMATION WITH NEGATIVE CONSTRAINTS BASED ON PARTICLE SWARM OPTIMIZATION
Ding, H.Q.; Chen, H.J.; Zhuang, H.L.; He, X.X.

DESIGN OF ROOF ABSCISSION LAYER WIRELESS MONITORING SYSTEM

XXX
BASED ON 433MHZ RF TECHNOLOGY
Yao,J.W.;Tian,H.X. 2194

COMBINED ANALYSIS OF PROBABILITY OF MISSED DETECTION AND POSITIONING ACCURACY FOR RECEIVER SELECTION IN SFN BASED PASSIVE RADAR SYSTEMS

MULTI-SENSOR DATA FUSION BASED ON THE EIGENVECTOR OF RELATION MATRIX
Sun,Y.;Zhao,J.Z.;Li,B. 2205

A RRNS BASED ROBUST RANGING ALGORITHM WITH RIPS MEASUREMENTS
Liu,C.W.;Wang,W.;Wu,F.L. 2211

JOINT OPTIMIZATION OF NODE SELECTION AND POWER ALLOCATION IN WIRELESS SENSOR NETWORKS
An,K.Y.;Sun,K.;Huang,W.;Zhang,H.X.;Zhang,L. 2216

DISTRIBUTED SADDLE-POINT OPTIMIZATION OVER TIME-VARYING NETWORKS WITH PROBABILISTICALLY QUANTIZED INFORMATION
Zhou,H.Q.;Yuan,D.M.;Wang,B.Y. 2221

FULLY DISTRIBUTED SOURCE LOCALIZATION VIA SPARSE RECONSTRUCTION IN WIRELESS SENSOR NETWORK
Huang,Q.;Feng,Y.W.;Zhang,Q.Q. 2226

A JOINT SCHEME OF ANTENNA SELECTION AND POWER ALLOCATION FOR LOCALIZATION IN MIMO RADAR SENSOR NETWORKS
Ma,B.T.;Chen,H.W.;Sun,B.;Xiao,H.T. 2230

MODIFIED GROWTH CODES: ENHANCING DATA PERSISTENCE IN SPARSE SENSOR NETWORKS
Zhang,P.;Wan,J.;Zhang,W.;Jiang,C.F. 2237

PERFORMANCE ANALYSIS OF IEEE 802.15.6 MAC PROTOCOL BASED ON BATTERY CHARACTERISTICS UNDER SATURATION AND ERROR-PRONE CHANNEL
Xu,L.F.;Liu,F.L.;Yi,C.F.;Guan,T.T.;Li,Y. 2243

BIAS SELF-ADAPTIVE CORRECTION-BASED LOCALIZATION ALGORITHM FOR UNDERWATER WIRELESS SENSOR NETWORKS
Ren,Y.J.;Wang,G.W.;Xin,X.G.;Zhang,L.P.;Liu,T.;Wang,W.Y. 2247

SINK NODE PLACEMENT STRATEGY FOR WIRELESS BODY AREA NETWORKS
Fang,Y.;Li,Z.Y.;Wu,Z.;Sun,Y.Z.;Du,J.C. 2251

NODE CLUSTERING FOR DATA COLLECTION IN WIRELESS SENSOR NETWORKS USING GRAPH-TRANSFORM AND COMPRESSIVE SAMPLING
Zhou,Y.;Ortega,A.;Wang,D.;Lee,S. 2257

PERFORMANCE EVALUATION OF RAKE RECEIVER FOR ULTRA-WIDEBAND WIRELESS BODY AREA NETWORK COMMUNICATION
Fang,Y.;Wu,Z.;Jiang,L.;Sun,Y.Z.
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A NEW METHOD OF LOCATING THE SINGLE WIRE FAULT</td>
<td>2262</td>
</tr>
<tr>
<td>Shi, Q.H.; Kanoun, O.</td>
<td></td>
</tr>
<tr>
<td>LOW POWER CASCADED FOLDING SIGNAL CONVERSION</td>
<td>2268</td>
</tr>
<tr>
<td>Zjajo, A.</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF DISCRETE-WAVELET TRANSFORM COMPRESSION IN WAFER FABRICATION</td>
<td>2272</td>
</tr>
<tr>
<td>Ning, T.; Huang, C.; Jensen, J.A.; Wong, V.; Sheet, L.</td>
<td></td>
</tr>
<tr>
<td>HELICOPTER ROTARY AND FIXED SYSTEM DYNAMICS DURING HOVER AND HIGH SPEED FLIGHTS</td>
<td>2277</td>
</tr>
<tr>
<td>Ning, T.; Wei, J.F.; Yang, H.</td>
<td></td>
</tr>
<tr>
<td>A FEASIBILITY STUDY ON A SINGLE-UNIT WIRELESS EEG SENSOR</td>
<td>2282</td>
</tr>
<tr>
<td>Luan, B.; Jia, W.; Thirumala, P.; Balzer, J.; Gao, D.; Sun, M.</td>
<td></td>
</tr>
<tr>
<td>RESEARCH ON SYNTHESIZING MUSIC FOR TINNITUS TREATMENT BASED ON CHAOS</td>
<td>2286</td>
</tr>
<tr>
<td>Chen, J.M.; He, P.Y.; Pan, F.</td>
<td></td>
</tr>
<tr>
<td>FAULT PREDICTION OF POWER ELECTRONIC CIRCUITS BASED ON MULTI-SCALE RELEVANCE VECTOR MACHINE</td>
<td>2292</td>
</tr>
<tr>
<td>Zhang, Y.L.; Li, G.L.; Xie, X.</td>
<td></td>
</tr>
<tr>
<td>SIMULATION AND TESTING SYSTEM OF VISION-BASED TRACKING ROBOT</td>
<td>2298</td>
</tr>
<tr>
<td>Zhuang, J.Y.; Xu, S.W.; Li, Z.M.; Chen, W.; Wang, D.J.</td>
<td></td>
</tr>
<tr>
<td>IMPROVEMENT ON RADIATION CORRECTION OF ORBIT SENSOR BASED ON BRDF MODEL</td>
<td>2303</td>
</tr>
<tr>
<td>Yu, H.Y.; Cheng, H.W.; Li, J.; Wang, T.B.</td>
<td></td>
</tr>
<tr>
<td>EVALUATING VAD FOR AUTOMATIC SPEECH RECOGNITION</td>
<td>2308</td>
</tr>
<tr>
<td>Tong, S.B.; Chen, N.X.; Qian, Y.M.; Yu, K.</td>
<td></td>
</tr>
<tr>
<td>THE DESIGN OF A NEW TYPE OF OPTICAL FIBER LIQUID-LEVEL SENSOR</td>
<td>2315</td>
</tr>
<tr>
<td>LIQUID LEVEL MEASUREMENT BY USING AN IMAGE METHOD</td>
<td>2320</td>
</tr>
<tr>
<td>Yu, C.H.</td>
<td></td>
</tr>
<tr>
<td>A BALANCED SECURITY PROTOCOL OF WIRELESS SENSOR NETWORK FOR SMART HOME</td>
<td>2324</td>
</tr>
<tr>
<td>Xu, Y.B.; Jiang, Y.; Hu, C.Q.; Chen, H.; He, L.L.; Cao, Y.H.</td>
<td></td>
</tr>
<tr>
<td>EM ALGORITHM FOR AN IMPROVED RANDOM INTERCEPT MODEL</td>
<td>2328</td>
</tr>
<tr>
<td>Min, S.Q.</td>
<td></td>
</tr>
<tr>
<td>ACCURATE DESIRED CHANNEL AND INTERFERENCE CHANNELS ESTIMATION AND APPLICATION IN DOWNLINK BEAMFORMING FOR LTE SYSTEMS</td>
<td>2334</td>
</tr>
<tr>
<td>Gao, M.; Deng, K.</td>
<td></td>
</tr>
<tr>
<td>A NEW CORRELATION ALGORITHM OF VLBI BASED ON SPECTRUM SHIFT ELIMINATION</td>
<td>2340</td>
</tr>
</tbody>
</table>
Han, S.T.; Tang, G.S.

ANALYSIS ON THE FIRST DELTADOR TRACKING BY CHINA DSN IN CE3 PROJECT
Han, S.T.; Tang, G.S.; Chen, L.; Cao, J.F.; Ren, T.P.; Wang, M.

THE SIMULATION RESEARCH ON THE SHIP NETWORKED CONTROL SYSTEM BASED ON ETHERNET
Tian, M.; Sun, Z.; Zhang, L.Y.

GSNR-MV: A ROUTING PROTOCOL BASED ON MOTION VECTOR FOR VANET
Tu, H.Y.; Peng, L.; Li, H.Y.; Liu, F.L.

DESIGN OF FACE TRACKING SYSTEM BASED ON ROTATABLE CAMERA
Wang, C.; Lin, W.; Zhang, Q.Y.; Wang, Y.Q.; Wang, P.S.

MODELING AND CONTROLLER DESIGN FOR A HYPERSOONIC VEHICLE AND ITS APPLICATION IN CURRICULUM REFORM
Gao, F.; Ma, F.; Zhu, H.; Zhang, Y.G.; Guo, Y.Y.

AN IMPROVED RECEIVED POWER AND DISTANCE MODEL FOR THE HIGH SPEED RAILWAY CONTROL SIGNAL IN CHINA
Zhang, X.Y.; Bian, P.

A MULTI-WEIGHTS MAP MATCHING ALGORITHM USED IN GPS SYSTEM FOR VEHICLE NAVIGATION APPLICATION
Zhang, Y.R.; Guo, C.J.; Niu, R.Z.; Mao, Y.L.

A PRICING-BASED COOPERATION BANDWIDTH ALLOCATIONS ALGORITHM USING NON-COOPERATIVE GAME THEORY
Zhang, C.; Zhao, H.L.; Jia, M.

ROBUST GNSS SIGNAL TRACKING ALGORITHM BASED ON VECTOR TRACKING LOOP UNDER IONOSPHERIC SCINTILLATION CONDITIONS
Xia, J.; Yue, F.Z.; Wang, P.P.; Wang, S.

APPLICATION OF ROTATION VECTOR ALGORITHM FOR SINS ATTITUDE UPDATING
Wang, Z.Q.; Yin, X.H.; Li, P.D.; Wan, L.J.

THE DESIGN AND IMPLEMENTATION OF INVISIBLE EAVESDROPPING PROTECTION APPLICATION
Zhao, J.; Han, Z.Y.; Zhang, H.B.; Liu, R.

THE EFFECT OF IONS ON TERAHERTZ WAVE PROPAGATION CHARACTERISTICS IN PLASMA SHEATH
Li, S.T.; Li, J.; Zhu, Z.B.; Cui, W.Z.

RESEARCH ON HLA/TM IN GNSS SYSTEM
Cai, X.H.; Li, H.; Yang, J.

FUSION OF PALMPRINT AND PALM VEIN IMAGES FOR PERSON RECOGNITION
Li, P.D.; Miao, Z.J.; Wang, Z.Q.

RESEARCH ON THE RELIABILITY TESTING METHOD OF RADAR SYSTEM SIMULATION SOFTWARE
Li,X.J.;Wang,L.

ADAPTIVE ONSET DETECTION BASED ON INSTRUMENT RECOGNITION
Zhu,B.;Gan,J.Y.;Cai,J.J.;Wang,Y.;Wang,H.

ON THE ACTIVE CONTROL OF SPECTRAL LINES OF SHIP RADIATED NOISE
Zheng,Y.;Hu,C.J.;Zhao,H.B.

STUDY OF IONOSPHERIC TEC SHORT-TERM FORECAST MODEL BASED ON COMBINATION METHOD
Niu,R.Z.;Guo,C.J.;Zhang,Y.R.;He,L.;Mao,Y.L.

SINGING INFORMATION PROCESSING
Goto,M.