SUBJECT INDEX

ELECTRONICS TECHNOLOGY

A method based on Chinese remainder theorem with all phase DFT for DOA
estimation in sparse array 1-1
A simplified decoding algorithm for multi-CRC polar codes
Compressive sensing based multiuser detector for massive MBM MIMO uplink
Joint 2D DOA and Doppler frequency estimation for L-shaped array using
compressive sensing
Carrier frequency and symbol rate estimation based on cyclic spectrum
Attributes-based person re-identification via CNNs with coupled clusters loss
A distribution prior model for airplane segmentation without exact template
Placement of unmanned aerial vehicles as communication relays in two-tiered multi-agent system:
clustering based methods2-231
An algorithm based on evidence theory and fuzzy entropy to defend against SSDF2-243
Spectral transformation-based technique for reducing effect of limited pre-correlation bandwidth in
the GNSS receiver filter in presence of noise and multipath2-252
Single color image super-resolution using sparse representation and color constraint2-266
Automatic video mosaicking algorithm via dynamic key-frame
Multi-agent system application in accordance with game theory in bi-directional
coordination network model2-279

A multi-source image fusion algorithm based on gradient regularized convolution
sparse representation
Tolerance analysis of multiple-element linear retrodirective cross-eye jamming
Improved TQWT for marine moving target detection
A multi-target tracking algorithm based on Gaussian mixture model
Multiple model efficient particle filter based track-before-detect for maneuvering weak targets4-64
Joint synchronization estimation based on genetic algorithm for OFDM/OQAM systems4-65
Direct solution for fixed source location using well-posed TDOA and FDOA measurements4-66
User space transformation in deep learning based recommendation
BER-based relay selection strategy for cooperative communication
Sensor scheduling for ground maneuvering target tracking in presence of detection blind zone4-69
Multi-target tracking algorithm based on PHD filter against multi-range-false-target jamming5-85
Design, analysis and optimization of random access inter-satellite ranging system5-87
Parity recognition of blade number and manoeuvre intention classification algorithm of
rotor target based on micro-Doppler features using CNN
Uplink NOMA signal transmission with convolutional neural networks approach5-89
A transceiver frequency conversion module based on 3D micropackaging technology5-89
Renormalization: single-photon processes of two-level system in free space
Reconstruction of time series with missing value using 2D representation-based
denoising autoencoder 6-108

Hybrid domain multipactor prediction algorithm and its CUDA parallel implementation6-1097
Investigation of MAS structure and intelligent ⁺ information processing mechanism of
hypersonic target detection and recognition system6-1105
Joint 2D-DOA and polarization estimation for sparse nonuniform rectangular array composed of
spatially spread electromagnetic vector sensor6-1116
A fast, accurate and dense feature matching algorithm for aerial images6-1128
TDOA and track optimization of UAV swarm based on D-optimality6-1140
DEFENCE ELECTRONICS TECHNOLOGY
Design of synthetic aperture radar low-intercept radio frequency stealth 1-64
Beamforming analysis based on CSB sin-FDA
A hypersonic target coherent integration detection algorithm based on Doppler feedback 1-85
Finite sensor selection algorithm in distributed MIMO radar for joint target
tracking and detection
Improved de-interleaving algorithm of radar pulses based on dual fuzzy vigilance ART2-303
Dot-shaped beamforming analysis based on OSB log-FDA2-312
Particle swarm optimization for rigid body reconstruction after micro-Doppler removal in
radar analysis3-488
An adaptive dwell time scheduling model for phased array radar based on three-way decision3-500
Target detection method in passive bistatic radar
High precision phase-domain radial velocity estimation for wideband radar systems3-520

Exponential time differencing based efficient SC-PML for RCS simulation4-703
An improved de-interleaving algorithm of radar pulses based on SOFM with
self-adaptive network topology4-712
An approach to wide-field imaging of linear rail ground-based SAR in high squint
multi-angle mode4-722
Adaptive resource management for multi-target tracking in co-located MIMO radar based on
time-space joint allocation5-916
ISAR cross-range scaling based on the MUSIC technique
Moving target localization for multistatic passive radar using delay, Doppler and
Doppler rate measurements
Lira-YOLO: a lightweight model for ship detection in radar images
Radar group target recognition based on HRRPs and weighted mean shift clustering6-1152
Wavelet-based $L_{1/2}$ regularization for CS-TomoSAR imaging of forested area6-1160
De-correlated unbiased sequential filtering based on best unbiased linear estimation for
target tracking in Doppler radar6-1167
ISAR autofocus imaging algorithm for maneuvering targets based on deep learning and
keystone transform6-1178
Detection and recognition of LPI radar signals using visibility graphs6-1186
Observability and estimability of passive radar with unknown illuminator states using
different observations6-1193
Parameter estimation of GTD model and RCS extrapolation based on a modified
3D-ESPRIT algorithm6-1206

SYSTEMS ENGINEERING

An approach to measuring business-IT alignment maturity via DoDAF2.0
An executable modeling and analyzing approach to C4ISR architecture1-109
Optimal index shooting policy for layered missile defense system
Rotary unmanned aerial vehicles path planning in rough terrain based on
multi-objective particle swarm optimizatio
A ϵ -indicator-based shuffled frog leaping algorithm for many-objective optimization problems1-142
A model for knowledge transfer in a multi-agent organization based on lattice kinetic model1-156
Design of task priority model and algorithm for imaging observation problem2-321
Multidisciplinary integrated design of long-range ballistic missile using PSO algorithm2-335
Robust single machine scheduling problem with uncertain job due dates for industrial
mass production
Grey information coverage interaction relational decision making and its application2-359
An ontological metamodeling framework for semantic simulation model engineering3-527
Multi-stage attack weapon target allocation method based on defense area analysis3-539
Service-oriented weapon systems of system portfolio selection method
Bayesian inference for ammunition demand based on Gompertz distribution
Distributed spatio-temporal generative adversarial networks
Improvement and application of GM(1.1) model based on multivariable dynamic optimization3-593

Deep reinforcement learning and its application in autonomous fitting optimization for
attack areas of UCAVs4-734
A nonlinear service composition method based on the Skyline operator4-743
Parallel discrete lion swarm optimization algorithm for solving traveling salesman problem4-751
Fuzzy modeling of multirate sampled nonlinear systems based on multi-model method4-761
A multivariate grey incidence model for different scale data based on spatial pyramid pooling4-770
A scenario construction and similarity measurement method for navy combat
search and rescue5-957
A super-network equilibrium optimization method for operation architecture with
fuzzy demands
A coevolutionary framework of business-IT alignment via the lens of enterprise architecture5-983
Optimal observation configuration of UAVs based on angle and range measurements and
cooperative target tracking in three-dimensional space
Fractional derivative multivariable grey model for nonstationary sequence and
its application5-1009
Weapon system portfolio selection based on structural robustness
Qualification and validation test methodology of the open-source CubeSat FloripaSat-I6-1230
Automatic fuzzy-DBSCAN algorithm for morphological and overlapping datasets6-1245
Multi-attribute group decision making method under 2-dimension uncertain
linguistic variables

CONTROL THEORY AND APPLICATION

An impact angle constraint integral sliding mode guidance law for maneuvering
targets interception1-168
Parameter estimation for dual-rate sampled Hammerstein systems withdead-zone nonlinearity1-185
Tracking the maneuvering spacecraft propelled by swing propulsion of constant magnitude2-370
Kernel-based auto-associative P-type iterative learning control strategy2-383
High AOA decoupling control for aircraft based on ADRC2-393
Observer-based multivariable fixed-time formation control of mobile robots
Autonomous optical navigation of Mars probe aided by one-way Doppler
measurements in capture stage
Fine Doppler shift acquisition algorithm for BeiDou software receiver by a look-up table3-612
Adaptive back-stepping control on container ships for path following4-780
Multiconstraint adaptive three-dimensional guidance law using convex optimization4-791
Underwater square-root cubature attitude estimator by use of quaternion-vector switching and
geomagnetic field tensor
Extended state observer based smooth switching control for tilt-rotor aircraft
Control allocation for a class of morphing aircraft with integer constraints based on
Lévy flight
Finite-time control of formation system for multiple flight vehicles subject to
actuator saturation

Typical adaptive neural control for hypersonic vehicle based on higher-order filters	. 5-1031
Sliding-mode control for a rolling-missile with input constraints	. 5-1041
Impedance control of multi-arm space robot for the capture of non-cooperative targets	. 5-1051
A fast computational method for the landing footprints of space-to-ground vehicles	. 5-1062
Zonotope parameter identification for piecewise affine systems	. 5-1077
Accurate estimation of line-of-sight rate under strong impact interference effect	. 6-1262
Disturbance observer based finite-time coordinated attitude tracking control for spacecraft on $\mathrm{SO}(3)$. 6-1274
Three-dimensional cooperative guidance law for multiple missiles with impact angle constraint	. 6-1286
Distributed cooperative control of autonomous multi-agent UAV systems using smooth control	. 6-1397
Carrier frequency disturbance distributions on GPS during equatorial ionospheric scintillation	. 6-1308
Airship aerodynamic model estimation using unscented Kalman filter	. 6-1318
RELIABILITY	
Remaining useful lifetime prediction for equipment based on nonlinear implicit degradation modeling	1-194
A statistical inference for generalized Rayleigh model under Type-II progressive	
censoring with binomial removals	. 1-206

A workload-based nonlinear approach for predicting available computing resources	1-224
Methods for predicting the remaining useful life of equipment in consideration of	
the random failure threshold	2-415
A reliability evaluation method for embryonic cellular array based on Markov	
status graph model	2-432
Graduation formula: a new method to construct belief reliability distribution under	
epistemic uncertainty	3-626
Evaluation of fault diagnosability for nonlinear uncertain systems with multiple	
faults occurring simultaneously	3-634
Condition-based maintenance optimization for continuously monitored degrading systems und	der
imperfect maintenance actions	4-841
Dependence Rayleigh competing risks model with generalized censored data	4-852