Journal of Systems Engineering and Electronics

Volume 29 Number 3

June 2018

CONTENTS

ELECTRONICS TECHNOLOGY

- 445 Frequency hopping in IEEE 802.15.4 to mitigate IEEE 802.11 interference and fading JAVED Umer, HE Di, LIU Peilin, and YANG Yueming
- 456 Calculation and correction of magnetic object positioning error caused by magnetic field gradient tensor measurement

 WANG Sansheng, ZHANG Mingji, ZHANG Ning, and GUO Qiang
- WFRFT modulation recognition based on HOC and optimal order searching algorithm
 LIANG Yuan, DA Xinyu, WU Jialiang, XU Ruiyang, ZHANG Zhe, and LIU Hujun
- 471 Fast image super-resolution algorithm based on multi-resolution dictionary learning and sparse representation
 ZHAO Wei, BIAN Xiaofeng, HUANG Fang, WANG Jun, and ABIDI Mongi A.
- 483 Saliency detection of infrared image based on region covariance and global feature
 LIU Songtao, JIANG Ning, LIU Zhenxing, and JIANG Kanghui

DEFENCE ELECTRONICS TECHNOLOGY

- 491 Mitigation of cross-eye jamming using a dual-polarization array MA Jiazhi, SHI Longfei, XIAO Shunping, and WANG Xuesong
- 499 A method for coastal oil tank detection in polarimetric SAR images based on recognition of T-shaped harbor
 LIU Chun, XIE Chunhua, YANG Jian, XIAO Yingying, and BAO Junliang

SYSTEMS ENGINEERING

- 510 Functionality evaluation of system of systems architecture based on extended influence diagrams
 - ZHANG Mengmeng, CHEN Honghui, ZHANG Xiaoxue, LUO Aimin, and LIU Junxian
- 519 Approach to WTA in air combat using IAFSA-IHS algorithm
 LI Zhanwu, CHANG Yizhe, KOU Yingxin, YANG Haiyan, XU An, and LI You
- 530 Intervention decision-making in MAV/UAV cooperative engagement based on human factors engineering
 - ZHONG Yun, YAO Peiyang, WAN Lujun, and YANG Juan

Mission-oriented dynamic optimization model of carrying spares for warship redundant system
 RUAN Minzhi, LI Hua, and WANG Junlong
 Evolutionary dynamics analysis of complex network with

549 Evolutionary dynamics analysis of complex network with fusion nodes and overlap edges

YANG Yinghui, LI Jianhua, SHEN Di, NAN Mingli, and CUI Qiong

560 Improved grey prediction model based on exponential grey action quantity YIN Kedong, GENG Yan, and LI Xuemei

CONTROL THEORY AND APPLICATION

571 Integral terminal sliding mode control for nonlinear systems
GUO Jianguo, LIU Yuchao, and ZHOU Jun

580 Backstepping sliding mode control for uncertain strictfeedback nonlinear systems using neural-network-based adaptive gain scheduling YANG Yueneng and YAN Ye

587 Optimal midcourse trajectory planning considering the capture region ZHOU Jin, SHAO Lei, WANG Huaji, ZHANG Dayuan, and LEI Humin

601 Scaling parameters selection principle for the scaled unscented Kalman filter
NIE Yongfang and ZHANG Tao

611 Mixed sensitivity H∞ control for LTI systems with varying time delays

OULD MOHAMED Mohamed vall

SOFTWARE ALGORITHM AND SIMULATION

618 Modeling of disturbance torque in an aerostatic bearings-based nano-satellite simulator

LIU Yanfang, HUO Mingying, and QI Naiming

625 Multi-type ant system algorithm for the time dependent vehicle routing problem with time windows

DENG Ye, ZHU Wanhong, LI Hongwei, and ZHENG Yonghui

639 A secure image steganography algorithm based on least significant bit and integer wavelet transform

ELSHAZLY Emad, ABDELWAHAB Safey, ABOUZAID Refaat, ZAHRAN Osama, ELARABY Sayed, and ELKORDY Mohamed

RELIABILITY

650 Recovery of coupled networks after cascading failures GAO Jiazi, YIN Yongfeng, FIONDELLA Lance, and LIU Lijun

658 Moment-independence global sensitivity analysis for the system with fuzzy failure state and its Kriging method

LI Guijie, XIE Chaoyang, WEI Fayuan, and WANG Fengjun

Jour Vol.

Abs tion IEEI hop impliow The stud sele the p dio in the

1.

IEEI this Key

work 802

dure

DO

freq

The is a IEE The

occ

M */ T and 201/ Chii (16I tion

> "Ul Rel: