

Jiangsu Annual Conference on Automation (JACA 2020)

IET Conference Publications 782

Zhenjiang, China
12 - 15 November 2020

ISBN: 978-1-7138-3220-1

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© (2020) by the Institution of Engineering and Technology
All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

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

PLANT LEAF SEGMENTATION USING A REFINED FULLY CONVOLUTIONAL NETWORK.....	1
<i>Long Wang, Jun Sun, Wenjun Tan, Xin Sun, Xiaohong Wu, Jifeng Shen, Yinghui Hu</i>	
A FAST FINGERTIP DETECTOR BASED ON THE CHORD-TO-POINT DISTANCE ACCUMULATION TECHNIQUE.....	9
<i>Wenjun Wang, Yihong Wang</i>	
DESIGN OF AN INTELLIGENT CLOUD ELEVATOR CONTROL SYSTEM.....	14
<i>You Yue, Dan Niu, Li Ding, Xiaoci Zhu, Xisong Chen, Guoha Qian</i>	
DESIGN AND IMPLEMENTATION OF ELEVATOR CLOUD MONITORING SYSTEM.....	19
<i>Xiaoci Zhu, Dan Niu, Li Ding, Guohua Qian, Xisong Chen, ShaSha Liang</i>	
EVENT-BASED NON-FRAGILE SYNCHRONIZATION CONTROL FOR T-S FUZZY NEURAL SYSTEMS WITH CYBER-ATTACKS.....	25
<i>Ye Yuan, Yan Liu, Yushun Tan</i>	
UNKNOWN-FREQUENCY HARMONIC DISTURBANCE ESTIMATION BASED SPEED REGULATION FOR SINGLEFRAME CONTROL MOMENT GYROSCOPE.....	31
<i>Yuxuan Yu, Jun Yang, Shihua Li</i>	
FAULT-TOLERANT FORMATION CONTROL FOR MULTIPLE QUADROTOR SYSTEMS BASED ON NONLINEAR FAULT ESTIMATION.....	37
<i>Huiliao Yang, Bin Jiang, Dawei Wu</i>	
PARALLEL DECOMPOSITION OF BOOLEAN CONTROL NETWORKS.....	43
<i>Lei Wang, Jiandong Zhu</i>	
A DEEP TRANSFER LEARNING BASED FAULT DIAGNOSIS METHOD FOR DIESEL GENERATOR.....	49
<i>Xue Lei, Ningyun Lu</i>	
AN IMPROVED KPCA-DBN BASED BEARING FAULT DIAGNOSIS.....	55
<i>Tianzhen Hu, Ningyun Lu</i>	
PREDICTIVE SLIDING MODE TRACKING CONTROL OF HYPERSONIC VEHICLE BASED ON DISTURBANCE OBSERVER.....	61
<i>Jin Zhao, Mou Chen</i>	
RESEARCH ON INSULATION MONITORING METHOD OF MARINE POWER SYSTEM BASED ON DIELECTRIC LOSS FACTOR.....	67
<i>Shuaiquan Jiang, Zhiyu Zhu, Qingqing Xu</i>	
ENGAGEMENT PREDICTION AND VISUALIZATION IN ONLINE-LEARNING.....	73
<i>Shi Tu</i>	
A NEW IMAGE DENOISING METHOD BASED ON STEER KERNEL REGRESSION.....	79
<i>Gongbiao Shi, Lin Chai, Lizuo Jin</i>	

Author Index