2019 4th International Conference on Measurement, Information and Control (ICMIC 2019)

Harbin, China 23 – 25 August 2019



IEEE Catalog Number: ISBN:

CFP1912R-POD 978-1-7281-3036-1

Copyright © 2019 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP1912R-POD

 ISBN (Print-On-Demand):
 978-1-7281-3036-1

 ISBN (Online):
 978-1-7281-3035-4

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

E-mail: curran@proceedings.com Web: www.proceedings.com



Table of Contents

Section1: Measurement and Sensor				
PID	Paper Information	First Page		
4112	Combination Multiple Faults Diagnosis Method Applied to the Aero-engine Based on Improved Signed Directed Graph Xiaolei WANG, Zhengning YU, Xuemin NIU, Xianfeng LU, Hao YANG, Zhongjia wen LIU China Academy of Civil Aviation Science and Technology	1		
4123	Research on the Optical Observation Method for LEO Objects with Small Inclination Kun-peng WANG, Han-chen YU, Dong-ya WANG Beijing institute of Tracking and Telecommunications Technology	1:		
4180	Research of High Accuracy Detection on Plates with Electromagnetic Ultrasonic Lamb Wave CHaoran Deng, Yongqian Li, Guofu Zhai, Bao Liang, Shengbin Wang Harbin Institute of Technology	1:		
4194	Experimental Study on The Interference Effect of Wind Load on Two Adjacent Hemispherical Domes Weibo Sha, Deqian Zheng, Jinchao Yue Zhengzhou University	N/.		
4228	A New Measurement Method for Resonance Frequency of Fiber Optic Interferometric Vibration Detector Jiandong Chen, Yue Yang, Xiaoyi Pan, Zhanghai Wang, Zili Zhang, Huiliang Ge Hangzhou Institute of Applied Acoustics	2.		
4272	Research on Compensation Method for Internal Resistance Measurement of Downhole Intelligent Water Distribution Battery Pack <i>Quanbin Wang, Changpeng Cao, Chuan Yu, Deli Jia</i> PetroChina Co Ltd.Research Institute of Petroleum Exploration and Development	N/.		
4285	Nondestructive Testing of Elongated Ferromagnetic Members Based on Extruded Structure Yan Xiaolan, Zhang Donglai, Wang Hongpeng Harbin Institute of Technology, Shenzhen	3		
4288	Study of Magnetostrictive Guided Wave Detection of Defects in Steel Strip for Elevator Traction Wei Gao, Donglai Zhang, Enchao Zhang, xiaolan Yan Harbin Institute of Technology, Shenzhen	3		
4303	Acquisition Algorithm of Spatial Control Parameter Relative Distance for On-line Insulation Xizhen Zhang, Xiaoyan Sun, Chenhong Yao, Zhihui Wang Xian University of Architecture Technology	4		
	Section2: Computer Technology and Information Processing			
PID	Paper Information	First Page		
4127	A Domain-Oriented Double Dictionary Forward Traversal Method for Fine Corpus Extraction Gang LIU, Sen-nan ZHANG, Wang-yang LIU, Yang CAO, Xue-feng LI Harbin Engineering University	4		

4138	Radar Sensor Fusion via Federated Unscented Kalman Filter Li-Wei Fong, Pi-Ching Lou, Lianggang Lu, Peimao Cai	51
	Beijing Institute of Technology, Zhuhai	31
4143	The Forecasting of Water Resource Based on Neural Network	
	Kai Yu, Liang Han	57
	Southeast University	
4282	Research on Cognitive Diagnostic Model Based on BP Neural Network	
	jin chen, jianghao lin, Xinguang Li	61
	Guangdong University of Foreign Studies	
	Section3: Control Theory and Applications	
PID	Paper Information	First Page
4132	A Multi-Agent Formation Control Method Based on Bearing Measurement	
	Xiaotan Zhang, Wenshan Su, Lei Chen	66
	National University of Defense Technology	
4174	Nondestructive classification of potatoes based on HSI and clustering	
	Yamin Ji, Laijun Sun	73
	College of Electronic Engineering Heilongjiang University Harbin, China	
4178	Rapid and Non-destructive Detecting Frying Times of Peanut Oil Based on Near	
	Infrared Reflectance Spectroscopy	78
	Zhiyong Ran, Laijun Sun, Jinlong Li	70
	Heilongjiang University	
4182	Study on Detection Methods for Frying Times of Soybean Oil Based on NIRS	
	Jinlong Li, Laijun Sun	83
	Heilongjiang University	
4183	Non-destructive Detection the Content of Acid Detergent Fiber in Corn Stalk	
	Using NIRS	89
	Jinlong Li, Laijun Sun Hailangijang University	
4247	Heilongjiang University Germination Prediction of Sugar Beet Seeds Based on HSI and SVM-RBF	
	Shuang Zhou, Laijun Sun, Yamin Ji	93
	Heilongjiang University	93
	Tichonghang omversity	