## **2020** Chinese Automation Congress (CAC 2020)

Shanghai, China 6-8 November 2020

Pages 1-697



IEEE Catalog Number: CFP2085U-POD ISBN: 978-1-7281-7688-8

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 IEEE Catalog Number:
 CFP2085U-POD

 ISBN (Print-On-Demand):
 978-1-7281-7688-8

 ISBN (Online):
 978-1-7281-7687-1

ISSN: 2688-092X

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Automatic Test Platform for High-Speed Railway Autonomous Controlling Machine based on Production Re-direction Mechanism, pp.1905-1908 Hongtao Zhao;Wei Xu;Feng Chen;Pengfei Song

Study on Unit Optimal Scheduling Considering the joint constraint of "deep peak load regulation and coal consumption", pp.1909-1913 Dan Song, Chao Wang, Jianyuan Xu, Li Xu,Xiaotian Zhang, Sichen Lu and Yuan Tian

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Management and Control System of Hazardous Chemicals Storage Cabinet Based on Android, pp.1920-1925 Wenjin Zong; Qibing Zhu

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Closed-loop-reference-based Adaptive Learning Control for Nonlinear Systems with Parametric and Non-parametric Uncertainties, pp.1932-1937
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Fuzzy Test Case Generation Method Based on CoGAN Industrial Network Protocol, pp.1938-1943 ShenRenliang; FuJingqi

Research on Response Characteristics of Antenna Sensor for Metal Structure Defect Detection, pp.1944-1948 Chen Jianbin; Li Qiang;Wen Hao;Li Xiang;Qi Wei

Dynamic Reactive Power Allocation Strategy for AC/DC System Based on Quantum Genetic Algorithm, pp.1949-1954 Yanchun Li; Enming Bai;Jianyuan Xu;Jicheng Liu;Shaowu Liu;Puchun Ren;Yuan Tian

Variational value learning in advantage actor-critic reinforcement learning, pp.1955-1960 Yaozhong Zhang,Jiaqi Han,Xiaofang Hu,Shihao Dan

Tractor Semi-trailer Modeling and Regional Path Tracking Control Strategy, pp.1961-1966 Jun Liu;Xiaoming Zhao;Hongyan Guo;Hong Chen

Feature Extraction and Recognition Method of Industrial Internet of Things Terminal Based on MGA-SVM Dimension Reduction, pp.1967-1972 Chuanjia Xu;Wenli Shang;Chunyu Chen;Mingxuan Zhang;Shihao Li;Lijun Fu

An adaptive dead fish detection approach using SSD-MobileNet, pp.1973-1979 Hou Mingxin

Outsourcing strategies for manufacturers facing reputation oriented consumers, pp.1980-1985 CHUANG LĬU

An Improved SMOTE Algorithm Using Clustering, pp.1986-1991 Zhao Xiang;Yixin Su;Jian Lan;Diliang Li;Yuying Hu;Zixiao Li

Anchor-free pedestrain detection model with semantic context of traffic scenario, pp.1992-1997 Zhijing Xu;Yuhao Huang;Shitao Chen;Zhixiong Nan;Nanning Zheng

Continuous-discrete Reactive Power Optimization Control for AC/DC System with Large-scale New Energy, pp.1998-2003 Xinwei Li;Chao Wang;Qiang Zhang;Peng Zhao;Hongbo Zhu;Yuan Tian

Smooth Switching Control of PMSM Based on LADRC and Backstepping Integral Sliding Mode, pp.2004-2008 Jiawen Liu and Haisheng Yu

Video stabilization algorithm based on background feature point matching, pp.2009-2013 Shujiao Ji,Zhibin Feng and Zhaoxia Deng

Observer Design For A Class of Nonlinear Systems With Output Dependent Incremental Rate, pp.2014-2016 Yunyan Li

Visual Odometry Based on Feature Points of Instance Segmentation in Indoor Environment, pp.2017-2023 Jia Kuang; Lei Cheng; Zhihao Cai; Honglian Xiang

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