2023 9th International Conference on Information, Cybernetics, and Computational Social Systems (ICCSS 2023)

Nanjing, China
2-4 June 2023

IEEE Catalog Number: CFP2288X-POD
ISBN: 979-8-3503-4224-6

Copyright © 2023 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:	CFP2288X-POD
ISBN (Print-On-Demand):	979-8-3503-4224-6
ISBN (Online):	979-8-3503-4223-9
ISSN:	2639-4227

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

CURRAN ASSOCIATES INC.
proceedings.com

Table of Content

Saturday, June 3, 2023

Oral Session A: 14:00-17:20

Tencent Meeting Room: 743-503-567

Graph convolutional network with learnable message propagation mechanism
Hai-Chun Cai, Yue-Na Lin, Chun-Yang Zhang.....1
Adaptive sliding mode control for MEMS gyroscopes based on immersion and invariance manifold
Zhiwei Wen, Luoyu Zhang, Cheng Lu, Yunxiang Guo, Xinsong Zhang, Laiwu Luo.....6
Eigenvector based Multiobjective Model Predictive Control for Wastewater Treatment Process
Cong Chen, Haoyuan Sun, Honggui Han.....12
Transductive transfer broad learning soft sensor for multimode quality prediction
Jialiang Zhu, Hongying Deng, Danya Xu, Tao Yang, Yi Liu.....18
Double Closed Loop Robust Optimal Control for Wastewater Treatment Process
Jiacheng Zhang, Ying Hou, Honggui Han.....23

Oral Session B: 14:00-17:20

Tencent Meeting Room:171-490-053

Packet Routing in Dynamic Network: Deep Reinforcement Learning-based Approach
Zhi Zheng, Yan Zhou.....29
Fuzzy Transfer Learning Algorithm with Knowledge-Task Matching
Hongxu Liu, Hongyan Yang, Honggui Han.....35
Adaptive Feature Selection on Graph
Yue-Na Lin, Chun-Yang Zhang.....41
Deep Reinforcement Learning for Improving Positional Accuracy of Hydraulic Forklift on Automatic Loading Equipment
Puzhen Cao, Dayong Shen, Wenye ZOU, Ruhua Zhao, Chenyang Lin, Jiangtian

Zhu 45
Stochastic Configured Fuzzy System Modeling based on Information Granulation and Association Analysis
Yiran Liu, Wenyan Song, Degang Wang, Wei Zhou.....49
An integrated stochastic configuration network based on fuzzy transformation
Fei Teng, Degang Wang, Wei Zhou.....56

Sunday, June 4, 2023

Oral Session C: 9:00-12:00

Tencent Meeting Room: 743-503-567

Parameter Optimization via Reinforcement Learning for the Regulation of Swarms
Qizhen Wu, Gaoxiang Liu, Kexin Liu, Lei Chen.....62
2D Texture Image Synthesis of Cement
Jianfeng Yuan, Na Zhang, Bo Yang , Xin Zhao, Xu Wu, Lin Wang.....68
Research on Disturbance Immunity Balance Control of Biped Robot Based on ESO-DDPG
Jianjun Yu, Ruihua Zhu, Daoxiong Gong, Naigong Yu, Miaoqiang Zhou.....73
Social Distance Monitoring Using Object Detection and Tracking Techniques In the Era of COVID-19
Bingshu Wang, Ruofan Chang, Ze Wang, Shuang Feng, Chuanbin Zhang.....79
Multiple Random Feature Superpixel-Based Fuzzy Clustering for Image Segmentation
Chuanbin Zhang, Long Chen, Yifei Tian, Zhaoyin Shi, Yingxu Wang.....85

Oral Session D: 9:00-12:00

Tencent Meeting Room:171-490-053

Distance Metric Learning-optimized Attention Mechanism for Visual Question Answering
Xinyao Shu, Shiyang Yan, Yingjie Cui, Zhongfeng Chen, Zhenyu Lu 91
Fully Distributed Minimal-order Attack-free Protocol for Nonlinear Multi-agent

Networks
Yuezu Lv, Jialing Zhou, Lei Chen, Chunli Zhu, Tong Qin.....97
Double Branch Model Based on Discrete Wavelet Transform for Spatiotemporal Prediction
Yingjie Cui, Zhenyu Lu, Le Sun, Byeungwoo Jeon.....105
Simplified-Xception: A New Way to Speed Up Malicious Code Classification
Xinshuai Zhu, Famei He, Chang Gao, Yushi Wang, Xuren Wang.....111
Novel -$\ell_{2,1}$-norm based least square regression method for classification
Junwei Jin, Qiuling Yan, Chunhua Zhu Zhenghao Qin, Lei li 117