

# **2022 International Conference on Intelligent Systems and Computational Intelligence (ICISCI 2022)**

**Changsha, China  
15 – 17 October 2022**



**IEEE Catalog Number: CFP22AQ0-POD  
ISBN: 978-1-6654-5620-3**

**Copyright © 2022 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:	CFP22AQ0-POD
ISBN (Print-On-Demand):	978-1-6654-5620-3
ISBN (Online):	978-1-6654-5619-7

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# Table of Contents

DASS: a Domain Augment Supervised SimCSE framework for sentence presentation <i>Hao Yang, Minghan Wang and Jiaxin Guo</i>	1
Synchronization of a Fourth-order Hyperchaotic System by Intermittent Control with Double Impulses <i>Zequn Lu, B. O., Yuming Feng, Xianyang Xie, Ning Tang and Wei Zhang</i>	6
Prediction of RNA Modifications Based on Multi-interval Nucleotide Pair Mutual Information <i>Qin Yang and Shanxin Zhang</i>	13
Distributed dynamic event-triggered control on bipartite tracking consensus of linear multi-agent system in the cooperation-competition network <i>Jia Wang and Hongxiang Hu</i>	19
A hybrid neurodynamics algorithm for solving distributed nonconvex nonsmooth load sharing problems in power systems <i>Jianyu Yang and Xing He</i>	23
Design of Differential Privacy Protection Algorithms for Cyber-Physical Systems <i>Yue Zhang, Xiaoya Nan, Jialing Zhou and Shuai Wang</i>	29
Finding the Optimal Network Topology for the Distributed Multi-Short-Paths Routing Algorithm — A Genetic Algorithm-Based Approach <i>Guang Chen and Hong-Xiang Hu</i>	35
Scaled Consensus of Nonlinear Second-order Multi-agent Systems with Input Faults and Failures <i>ChangDuo Liang, MingFeng Ge, ZhiWei Liu and Wenfeng Hu</i>	39
Adaptive Control for Nonlinear MIMO Systems <i>Cheng Zhao, Yuhao Zhou and Xin Wang</i>	45
A Fast LMS-based Compound Algorithm for Modelling Long Memory Filters with Colored Signal <i>Teng Wang, Yuting Wang and Hong Zhang</i>	51
Chance Constrained Weighted Goal Programming Based Optimal Operation for Integrated Energy System Considering Wind Power Uncertainty <i>Jiaming Hu, Xiaojun Zhou and Chaojie Li</i>	56
Guided Deep Reinforcement Learning based on RBFARX Pseudo LQR in Single Stage Inverted Pendulum <i>Tianbo Peng, Hui Peng and Fang Liu</i>	62
Robust $H_\infty$ consensus of multi-agent systems with the event-triggered scheme under semi-Markov switching topologies with partially unknown rates <i>Binbin Tian, Wenchao Huang and Hui Peng</i>	68
Evaluation of Cybersecurity Performance in Intrusion Detection Systems Based on Fuzzy VIKOR and the Nash Equilibrium <i>Guoliang Jin</i>	74
Vision-based Geo-Localization in Mountainous Regions <i>Fan Guo, Jin Tang, Cheng Gong and Zhuoqun Liu</i>	80
Early-Stage Diagnosis of Panax Notoginseng Plant Blight Disease by Multispectral Imaging <i>Zhihong Zhang, Siyu Shen and Qinghui Lai</i>	86
Scheduling on unrelated parallel batch processing machines considering energy cost <i>Liman Feng, Guo Chen, Shengchao Zhou and Xiaojun Zhou</i>	93
Battery Energy Storage System Cooperated with Wind Farm in the Energy and Regulation Market Considering Wind Uncertainty <i>Zihang Qiu, Yuchun Luo, Yi Wang, Yujing Mao, Jie Yang, Chaojie Li and Yulai Guo</i>	98