

# **2024 6th International Communication Engineering and Cloud Computing Conference (CECCC 2024)**

**Chengdu, China  
18-20 October 2024**



**IEEE Catalog Number: CFP24CN7-POD  
ISBN: 979-8-3503-6393-7**

**Copyright © 2024 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:	CFP24CN7-POD
ISBN (Print-On-Demand):	979-8-3503-6393-7
ISBN (Online):	979-8-3503-6392-0

**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

# 2024 6th International Communication Engineering and Cloud Computing Conference (CECCC 2024)

## Table of Contents

<b>Preface</b> .....	v
<b>Conference Committee</b> .....	vi
<hr style="border: 1px solid black;"/>	
➤ <b>Digital Signal Detection and Analysis</b>	
Human Motion Video Generation for Pose Transfere .....	1
<i>Zheng Tang, Xiang Zheng, Yongfeng Yan, Wanyong Tian, Lulu Zhao, Guobao Hui, Yin Ye, Jianjun Li</i>	
Harmonic Signal Detection and Recovery based on VMD-GRU.....	7
<i>Shengli Zhao, Xiuyue Jiang, Yuanyuan Wu, Deyang Peng</i>	
Hybrid Algorithms for Enhanced Vertex and Track Reconstruction .....	15
<i>Jiangran Zhi, Sikun Wu, Jixiang Zhao, Xinyi Cao</i>	
Gradual Interpolation Intermediate Domain Auxiliary for Unsupervised Domain Adaptation .....	23
<i>Lulu Zhao, Shaobin Li, Yongfeng Yan, Wanyong Tian, Zheng Tang, Guobao Hui, Yin Ye, Jianjun Li</i>	
➤ <b>Emerging Communication Networks and Key Technologies</b>	
OFDM-IM Performance Analysis in Presence of Doppler Frequency Shift .....	31
<i>Houssein Boud, Raveendra K. Rao</i>	
A Closed-form Formula of Weighted GDOP in Multi-GNSS Positioning .....	36
<i>Shidong Qiu, Jun Qi, Ming Zhu, Qiang Ji, Cong Zhou, Yunlong Teng</i>	
A Novel Framework for Discovering Anomaly Detection Errors in IoT at Real Time .....	40
<i>Dina ElMenshawy</i>	
Graph Neural Networks with Node Connectivity Strength for Node Classification .....	44
<i>Jingdong Liu, Tao Fang, Hong Huo</i>	
➤ <b>Multimodal Information and Security Analysis</b>	
Text Secret Sharing Scheme Based on Shamir Polynomials .....	50
<i>Yinong Song, Haiyang Ding, Zichen Li</i>	
User Behaviour in Choosing PIN Codes for FIDO2 Security Keys: An Empirical Study and a Market Research.....	55
<i>Emin Huseynov</i>	
Enhanced List-Driven Workflow Scheduling Optimization for Cloud Environments .....	59
<i>Xin-yuan Liu, Feng Tong, Yan-hua Wang, Ping Luo</i>	

Enhancing Sales Agent Efficiency in Columbarium Services: A Design of a Web-Based Portal and Dashboard Integration with Map System and Integrated Virtual Tour.....	66
<i>Eric Blancaflor, Mark Brandon Calida, Enrico Rafael Dela Cruz, Angelou Domingo, Alberto Villaluz</i>	
➤ <b>Data Mining, System Models and Information Analysis in Advanced Information Systems</b>	
A Solution for Projection Pursuit Problem Based on Particle Swarm Optimization Simulated Annealing.....	71
<i>Sun Xutao, Liu Tong, Fu Yong</i>	
IPN: A Listener Awareness System.....	75
<i>Mohammed Taha Roshan, Moksha Pradhan, Babitha Meenakshi, Paramesh Kumar, Bhaskarjyoti Das</i>	
Modelling/forecasting patient recruitment in clinical trials using Poisson-gamma model with time-dependent rates...	79
<i>Volodymyr Anisimov</i>	
Predictive Modeling of Mental Health Awareness Using Naive Bayes Algorithm .....	87
<i>Herminiño C. Lagunzad, Jigo Rafael C. Catamio, Warren B. Panizales, Rizzi Anne B. Miñoza, Ken Drexel Q. Cadano, Kris P. Garcia</i>	
Assessing the Impracticality of Training and Finetuning Large Language Models on Consumer GPUs: Limitations in Time, Scalability, and Efficiency .....	93
<i>Syed Hamza Hussain, Sunidhi S Naik, Neha Miriam Thomas, Tarun S Ramanujam, Bhaskarjyoti Das</i>	
Improving Canteen Allotted Break Time Compliance to Boost Overall Operational Efficiency: A Simulation Study	100
<i>Marc David Angelo Jaojoco, Gabriel John de Leon, Kathleen Baldoz, John Kenneth Punongbayan, Angelo Ani, Josefa Angelie D. Revilla, Rex Aurelius Robielos, Nina Krisha Laxamana</i>	
➤ <b>Author Index</b>	