

2023 5th International Communication Engineering and Cloud Computing Conference (CECCC 2023)

**Nanjing, China
27 – 29 October 2023**



**IEEE Catalog Number: CFP23CN7-POD
ISBN: 979-8-3503-4476-9**

**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:	CFP23CN7-POD
ISBN (Print-On-Demand):	979-8-3503-4476-9
ISBN (Online):	979-8-3503-4475-2

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

2023 5th International Communication Engineering and Cloud Computing Conference (CECCC)

Table of Contents

Preface.....	iv
Committee	v

1. Data Models and Intelligent Computing

A New Model for Mortgage Loss Given Default by Leveraging Time to Recovery	1
<i>Linkun Ma, Yixun Zheng, Yufei Li</i>	
Urban Roundabout Traffic Flow Prediction Based on GRU with Gated Recurrent Unit Structure	8
<i>Sibo Wang</i>	
Interaction Effect of Knowledge Network and Collaboration Network on Breakthrough Innovation.....	15
<i>Shugang Li, Zhifang Wen</i>	
A Deep Reinforcement Learning Algorithm to Project Portfolio Selection Problem	21
<i>Hang Chen, Yajie Dou, Ziyi Chen, Qingyang Jia, Mengyu Zhang, Biaobiao Qiu</i>	
Introducing a novel dataset for product matching: A new challenge for matching systems.....	26
<i>Tobias Rettenmeier, Alexander Jesser</i>	

2. Modern Information Theory and Technology

Research on Broadband Fault Detection Method for 5G Network of Distributed Smart Grid Based on Deep Learning.....	30
<i>Qingyong Guan, Haiyang Wang, Haipeng Sun, Junhao Su, Xiaodong Yu</i>	
Polymorphic Cloud Application Design Assisted by Open Source Software Classification.....	35
<i>Jean-Didier Totow Tom-Ata, Kyriakos Kritikos, Maria Antoneta Di Girolamo, Eftherpi Paraskevoulakou, Chrysostomos Symvoulidis, Dimosthenis Kyriazis</i>	
An Dual-Clustering Search Strategy for Evolutionary Multi-Objective Optimization with Complicated Pareto Sets	43
<i>Xiangzhou Gao and Shenmin Song, Jun Fan</i>	
Design of Intelligent Garbage Picking and Sorting Robot in Park.....	51
<i>Haibo Li</i>	
Research on Downhole Tubing Leakage Identification Method Based on Extreme Learning Machine	55
<i>Fanfan Ma, Jianchun Fan, Yunpeng Yang, Qijia Zhou, Bingcai Sun, Bo Zhang</i>	

Author Index