# 2023 IEEE International Symposium on Product Compliance Engineering - Asia (ISPCE-ASIA 2023)

Shanghai, China 3 – 5 November 2023



IEEE Catalog Number: CFP23BWD-POD ISBN: 979-8-3503-6121-6

# 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:CFP23BWD-PODISBN (Print-On-Demand):979-8-3503-6121-6ISBN (Online):979-8-3503-6120-9

ISSN: 2831-3402

#### **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



## Contents

## **Program in Detail**

Papers	1
Design and implementation of a lightweight advertising system based on Internet of Thing	S
	1
Two-Space Prediction Approach Based Evolutionary Dynamic Multi objective Optimizatio	
Design and application of data-driven LESN-DHP controller	
Predicting the Energy Meter Demand by a Window-based Gradient Boosting Regression Tree Mode	el
Periodic Analysis of Meter Installation data in Fujian Province based on Spectral Analysis2	
A CNN-LSTM-Based Model for Predicting Monthly Power Capacity	
A Privacy-aware Framework for Assessing and Recommending Short Video Advertisement 3	
Analysis of the cyclical change in the capacity of business expansion based on spectral analysis4	
An Extended Inverse Reinforcement Learning Control For Target-Expert Systems With Differe	
Parameters	0
UAV Trajectory Planning for Data Collection in Internet of Vehicles: A Reinforcement Learnin Approach	_
Evaluation and Analysis Method for Distribution Network Flexibility Considering Typical Scene Se	
Height estimation and the number of trees in transmission line corridors based on multi-source dat	
fusion6	
Research and Application of Visual Operation and Maintenance Technology for Conveyor Belt i	
Catalyst Workshop	
The impact of regenerative braking in electric vehicles to energy-efficient routing performance 8	0
Generative AI Enables EEG Data Augmentation Via Diffusion Model	5
Intelligent Sharding Decision for Blockchain-Enabled Industrial IoT Based on A3C Approach 9	1
Enhancing Navigation Aids Status Recognition Based on Extended Space Forest and Time Domai	
Features Fusion 9	
Event-Based Pinning Synchronization in Delayed Dynamical Networks With Stochastic Noises 10	
A Joint Design of Path Planning and Lane Reservation for Emergency Service in ITS	
ComESN: Compressive Echo State Network for Multi-task Time-series Prediction	
Improved Neural Collaborative Filtering Recommendation Method based on Multi-Head Attentio	
and Feature Fusion 12	
Temporal Action Localization : A Review	
SETRN: A Transform Structure with Adaptive 3D Attention Mechanism and Global Semanti	
Supervision for Mobile-Captured Retail Receipts Recognition	
Intelligent Retrieval and Question Answering Technology for Power Grid Security Standards: A Brie	
Survey14	
A Critical Review on Hazard Analysis and Risk Assessment for Development of Wearable Medical Devices	

Consumer and Industrial Mobile Robot Navigation Based on Evidential Multi-Granularity Three-Way
Decisions
Rotated quaternion valued algebra and its application to discrete time rotated quaternion valued
Fourier transform based human signal processing
Query Reformulator And Contrastive Answer Ranker For Conversational Question Answering Over
Knowledge Graph
Synthesis of Biocomposite through Electrospinning and Screw Extruder in Smart Laboratory Safety
An Approximation Technique for Solving Linear-Quadratic Optimal Control Problems Using
Chebyshev Polynomials
Advancing Fire Safety in Hong Kong Buildings: An IoT-Based Fire Accident Indication System 178
Integrating Functional Safety into Hazard-Based Safety Engineering: Towards a Comprehensive
Framework
Quality-Cost Trade-off on Constructing Logical Views for Vehicular Cyber-Physical Systems: A Deep
Reinforcement Learning Approach
Research on Reducing the Resonance Frequency of Low Frequency Metamaterials
Sequence Residual Frequency Domain Segmentation Temporal Convolutional Network for COVID-
19 Prediction
An efficient algorithm to remove electrocardiogram from respiratory signals by using wavelet
spectrum and secant method
Feature-Ranked Attention-Driven LSTM: A Novel Hybrid Model for Short-Term Stock Price
Predictions
Electrical Equipment Fault Diagnosis: A Technique Combining Fuzzy Logic and Large Language
Models