2023 International Conference on Advanced Enterprise Information System (AEIS 2023)

London, United Kingdom 1-3 December 2023



IEEE Catalog Number: CFP23BA8-POD ISBN:

979-8-3503-5927-5

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:
 CFP23BA8-POD

 ISBN (Print-On-Demand):
 979-8-3503-5927-5

 ISBN (Online):
 979-8-3503-5926-8

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-040

Phone: (845) 758-0400 Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



2023 International Conference on Advanced Enterprise Information System (AEIS) **AEIS 2023**

Table of Contents

Preface viii Conference Committee ix Reviewers xi
AI-Based Model Design, Information Extraction and Data Security
Multi-Feature Classification Enhancement
Approach to Reuse of Unity Game Scenes
See-Shop System: An Assistive Outdoor Navigation System for the Visual Impaired Based on Deep Learning Methods
OMIT: An Instrument to Aid Implementation of a Data Ownership Model in Data Governance 21 Mees Spaan (ABN AMRO Bank N.V., the Netherlands and Radboud University, the Netherlands), Stijn Hoppenbrouwers (HAN University of Applied Sciences, the Netherlands and Radboud University, the Netherlands), and Bas Hofmans (HAN University of Applied Sciences, the Netherlands)
Feature Engineering Procedure for Information Enrichment
Language Model and Natural Language Processing
Architecture to Productize Semantic Transformation by Utilizing Natural Language Processing with Microservices

Distributed Data Addressed in Natural Language
Ina Markova (Institute of Information Theories and Applications,
Bulgaria), Krasimira Ivanova (University of Telecommunications and
Post, Bulgaria), and Stefan Karastanev (Institute of Mechanics at BAS,
Bulgaria)
Utilizing Semantic Transformation in Event Streams
Tim Reimer (University of Calgary, Canada)
Big Data Addressed in Natural Language
Vera Markova (Institute of Information Theories and Applications,
Bulgaria), Krasimira Ivanova (University of Telecommunications and Post, Bulgaria), and Stefan Karastanev (Institute of Mechanics BAS,
Bulgaria)
Requirement Analysis and Information Flow Processing Optimization in Enterprise System
Knowledge-Driven Analysis Framework of Anomaly Propagation in Manufacturing Workshop 58 Shengbo Wang (Nanjing University of Aeronautics and Astronautics, China) and Yu Guo (Nanjing University of Aeronautics and Astronautics, China)
Aligning Models with Their Realization Through Model-Based Systems Engineering63
Lovis Justin Immanuel Zenz (University of the Bundeswehr Munich,
Germany), Erik Heiland (University of the Bundeswehr Munich, Germany),
Peter Hillmann (University of the Bundeswehr Munich, Germany), and
Andreas Karcher (University of the Bundeswehr Munich, Germany)
A Root Cause Analysis Method for Abnormal Production in Discrete Manufacturing Workshop 70 Weiwei Qian (Nanjing University of Aeronautics and Astronautics, China)
SecureIIoT: A Cybersecurity Approach for Industrial Internet of Things Environments
Ricardo Martinho (Polytechnic Institute of Leiria, Portugal), Carlos
Ferreira (Polytechnic Institute of Leiria, Portugal), Carlos Grilo
(Polytechnic Institute of Leiria, Portugal), Lino Ferreira
(Polytechnic Institute of Leiria, Portugal), Sérgio Silva (Polytechnic
Institute of Leiria, Portugal), Rui Rijo (Polytechnic Institute of
Leiria, Portugal), and Nuno Morgado (DRT Advance, SA, Portugal)
Data Pasad Enterprise Information System Davidonment and
Data-Based Enterprise Information System Development and Management
Research on the Construction of Intelligent Financial Sharing Platform
The Adoption and Usage of SAFe in Financial Institutions
Lesego Sebola (University of Johannesburg, South Africa) and Lucas Khoza (University of Johannesburg, South Africa)

Advantages of BIM Technology Application: A Case Study of a Construction Company
Development and Validation of an Approach for Assessing the Risk and Health of IT Project Portfolios
Research on Decision-Making Optimization of New Energy Vehicle Supply Chain Considering Stigma Level
Design
Market Segmentation of Aquilaria Sinensis-Classification of Consumers' Lifestyle Typologies
XAI for User Classifications
Automated Black-box Testing of RESTful APIs Using Enhanced Artificial Bee Colony
Unveiling Gender Dynamics: Examining Gender Moderation Effects on the Relationship of Subjective Norms, Attitude, and Intention Towards E-Wallet Adoption in Tajikistan
Author Index