2022 International Conference on Computing, Networking, **Telecommunications & Engineering Sciences Applications** (CoNTESA 2022)

Skopje, Macedonia 15-16 December 2022



IEEE Catalog Number: CFP22Y33-POD ISBN:

979-8-3503-9802-1

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:
 CFP22Y33-POD

 ISBN (Print-On-Demand):
 979-8-3503-9802-1

 ISBN (Online):
 979-8-3503-9801-4

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



Table of Contents (ToC)

Maaruf Ali, Mahdi H. Miraz, Andrew Ware and Bekim Fetaji

Preface

Technical Co-sponsors

Knowledge Partners	
Track: Al and Big Data Analytic	
Comparative Analysis of Machine Learning Algorithms using GANs through Credit Card Fraud Detection	1-5
Emilija Strelcenia and Simant Prakoonwit Analysis and Visualization of Social Networks Limonka Koceva Lazarova, Natasha Stojkovikj, Aleksandra Stojanova Ilievska and Vesna Dimitrievska Ristevska	6-10
Default Prediction Using Consumption Data Andro Mer´cep, Tomislav Kovaˇcevi´c, Tessa Bauman and Zvonko Kostanjˇcar	11-16
Emotion Recognition Using Bayesian Learning from a Multi-Label Data Corpus	17-22
Bandi Swathi, Madapuri Rudra Kumar, Mohammad Riyaz Belgaum and Zainab Alansari	
On a Comprehensive Implementation and Performance Evaluation Framework of Fast Algorithms for Exact String Matching Dion Cakeri and Dimitrios A. Karras	23-30
Contemporary Generation: Artificial Intelligence Contribution to Manufacturing Tea Osmëni and Maaruf Ali	31-35
Track: Electronics, Energy and Power System	
Overhead Line Insulator Type Classification Using YOLOv3 Architectures Yerbol Akhmetov, Venera Nurmanova, Mehdi Bagheri, Amin Zollanvari and Toan Phung	36-40
A TV-Module for DC-Baseline Compensation in Analog Front-End Design Pancha Yannick Hertz, Folla Kamdem Jerome, Wembe Tafo Evariste, Essimbi Zobo Bernard, Mohammad Arif Sobhan Bhuiyan and Mahdi H. Miraz	41-44
Track: Computing and IT	
A Review of Performance and Complexity on Sorting Algorithms Armend Salihu, Mërgim Hoti and Arbër Hoti	45-50
Evaluating the integration of Blockchain Technologies in Supply Chain Management: a case study of sustainable fishing	51-56
Odayne Haughton, Carlene Campbell, Graham Howe and Terry H. Walcott	F7 64
Assessing the Impacting Factors in Prediction of Parliamentary Elections Turnout Using Heuristics and Devising MIP Algorithmic Model	57-61
Lavdim Beqiri, Majlinda Fetaji, Bekim Fetaji and Zoran Zdravev Portfolio Optimization by Asset Allocation	62-65

Mohamed Safiudeen and Mahdi H. Miraz	
Introduction to Cyber Tensions Preventative Analysis and Honeypotting	66-71
Strategy	
Tea Osmëni and Maaruf Ali	
Assessment of the impact of ICT in the Digitalization Process in High Schools	72-76
during the Covid-19	
Majlinda Fetaji, Festim Halili, Bekim Fetaji, Mirlinda Ebibi and Besnik Duriqi	