

2021 25th International Conference on Information Technology (IT 2021)

**Zabljak, Montenegro
16 – 20 February 2021**



**IEEE Catalog Number: CFP21J51-POD
ISBN: 978-1-7281-9104-1**

**Copyright © 2021 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:	CFP21J51-POD
ISBN (Print-On-Demand):	978-1-7281-9104-1
ISBN (Online):	978-1-7281-9103-4

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

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

COMPARATIVE ANALYSIS OF KALMAN-TYPE FILTERS FOR EFFECTIVE WIND SPEED ESTIMATION.....	1
<i>Veljko Vukadinovic, Luka Martinovic, Žarko Zecevic, Božo Krstajic</i>	
OPTIMAL DESIGN OF REAL PID PLUS SECOND-ORDER DERIVATIVE CONTROLLER FOR AVR SYSTEM	5
<i>Mihailo Micev, Martin Calasan, Milovan Radulovic</i>	
LIFI NETWORKS: CONCEPT, STANDARDIZATION ACTIVITIES AND PERSPECTIVES	9
<i>Milica Popadic, Enis Kocan</i>	
ONE REALIZATION OF AN INDUSTRIAL DEVICE FOR MACHINE STATE ESTIMATION	13
<i>U. Rakonjac, P. Jandric, S. Vujnovic, A. Marjanovic, G. Kvašcevic, Ž. Đurovic</i>	
ACCURACY OF THE MTSENG _v ALGORITHM FOR ON-LINE BIOMETRIC SIGNATURE CLASSIFICATION.....	17
<i>Zoran N. Milivojevic, Marina Z. Milivojevic, Zoran S. Velickovic</i>	
SEMANTICALLY ENHANCED CYBER SECURITY MODEL FOR INDUSTRY 4.0: METHODOLOGICAL FRAMEWORK.....	21
<i>Luka Lakovic, Ivana Ognjanovic, Ramo Šendelj, Olivera Injac</i>	
DECISION TREE MODEL FOR EMAIL CLASSIFICATION.....	25
<i>Ivana Cavor</i>	
10 YEARS SINCE STUXNET: WHAT HAVE WE LEARNED FROM THIS MYSTERIOUS COMPUTER SOFTWARE WORM?	29
<i>Bojana Bakic, Miloš Milic, Ilija Antovic, Dušan Savic, Tatjana Stojanovic</i>	
INVESTIGATION OF NOISE EFFECTS FOR DIFFERENT QUANTUM COMPUTING ARCHITECTURES IN IBM-Q AT NISQ LEVEL	33
<i>Hasan Yetis, Mehmet Karakose</i>	
MOBILE PAYMENT CONTINUANCE USAGE INTENTION IN INDONESIA	37
<i>G. Seannery, A. Gui</i>	
IDENTIFYING FACTORS AFFECTING THE CONTINUANCE USAGE INTENTION OF DIGITAL PAYMENT SERVICES AMONG MILLENNIALS IN JAKARTA.....	41
<i>J. I. Poerjoto, A. Gui, K. Deniswara</i>	
APPLICATION OF A RELIABLE WEB API'S IN THE FIGHT AGAINST COVID-19 INFODEMIA.....	45
<i>Zoran S. Velickovic, Marko Z. Velickovic, Zoran N. Milivojevic</i>	
IMPROVING PARTICIPATION AND LEARNING OF COMPILER THEORY USING EDUCATIONAL SIMULATORS	49
<i>Sreæko Stamenkoviæ, Nenad Jovanoviæ</i>	
DEEP LEARNING-BASED CLASSIFICATION OF ENVIRONMENTAL SOUNDS.....	53
<i>Luka Vujoševic, Slobodan Đukanovic</i>	

AN APPROACH TO DATA TRANSFER IN SYSTEM FOR SOUND ACQUISITION IN INDUSTRIAL ENVIRONMENT	57
<i>Milutin Radonjic, Božo Krstajic</i>	
IMBENTARYO APP: AN INTELLIGENT INVENTORY AND DECISION SUPPORT SYSTEM	61
<i>Jessie Richie N. De Los Santos, Jessibel R. Suyom, Manilyn B. Comora, Giovanni N. De Los Santos, Michelle G. De Los Santos, Relyn C. Aruy</i>	
APPLICATION OF SENSORS IN THE CORROSION MONITORING OF THE SHIP'S STRUCTURAL PARTS	66
<i>Mirjana Beko, Špiro Ivošević, Tatijana Dlabac</i>	
MODELING OF LOW VOLTAGE TRANSFORMER BASED ON LABORATORY TESTING RESULTS.....	70
<i>Miodrag Forcan, Aleksandar Simovic, Aleksandar Lemez, Zlatan Stojkovic, Marko Boškovic, Dragan Manjak</i>	
APPLYING NATURAL LANGUAGE PROCESSING TO ANALYZE CUSTOMER SATISFACTION.....	74
<i>Armin Alibasic, Tomo Popovic</i>	
A FRAMEWORK FOR INCORPORATING A NATIONAL MARITIME SURVEILLANCE SYSTEM INTO THE EUROPEAN COMMON INFORMATION SHARING ENVIRONMENT	78
<i>Andrej Mihailovic, Nexhat Kapidani, Enis Kocan, Žarko Lukšić, David Merino Delgado, Spyros Antonopoulos, Marios Moutzouris</i>	
ENHANCED PREDICTION OF ANIMAL TOXINS USING INTUITIONISTIC FUZZY ROUGH FEATURE SELECTION TECHNIQUE FOLLOWED BY SMOTE.....	84
<i>Pankhuri Jain, Anoop Kumar Tiwari, Tanmoy Som</i>	
CONTROL OF THE QUALITY OF THE BUILDING'S INFORMATION MODEL AT DIFFERENT STAGES OF THE LIFE CYCLE	88
<i>Pavel Chelyshkov, Pavel Brazhnikov</i>	
PNEUMONIA DETECTION USING DEEP LEARNING BASED ON CONVOLUTIONAL NEURAL NETWORK.....	93
<i>Luka Racic, Tomo Popovic, Stevan Cakic, Stevan Šandi</i>	
DIGITAL TRANSFORMATION AND TRANSPARENCY IN WINE SUPPLY CHAIN USING OCR AND DLT	97
<i>Stevan Cakic, Aida Ismailisufi, Tomo Popovic, Srdjan Krco, Nenad Gligoric, Srdjan Kupresanin, Vesna Maras</i>	
ANALYSIS OF IONOSPHERIC EFFECTS ON THE PROPAGATION OF CHAOTIC SIGNALS.....	102
<i>Mirjana Janjušević, Luka Lazovic, Ana Jovanovic, Vesna Rubežić</i>	
COOPERATIVE TRACKING CONTROL OF MULTI-AGENT SYSTEMS WITH GENERAL LINEAR DYNAMICS	106
<i>Luka Martinovic, Zarko Zecevic, Božo Krstajic</i>	
COLLABORATIVE TRUCK-DRONE ROUTING OPTIMIZATION USING QUANTUM-INSPIRED GENETIC ALGORITHMS	110
<i>Hasan Yetis, Mehmet Karakose</i>	

OPTIMAL SOFT OPEN POINTS OPERATION AND DISTRIBUTED GENERATIONS PENETRATION IN A RECONFIGURED EGYPTIAN DISTRIBUTION NETWORK	114
<i>Ibrahim Mohamed Diaaeldin, Shady H. E. Abdel Aleem, Ahmed El-Rafei, Almoataz Y. Abdelaziz, Martin Calasan</i>	
SCENARIO-BASED APPROACH FOR EFFICIENT ENERGY MANAGEMENT IN MICROGRIDS CONSIDERING PARAMETERS UNCERTAINTY.....	120
<i>Mostafa H. Mostafa, Samia Gharib Ali, Martin Calasan, Almoataz Y. Abdelaziz, Shady H. E. Abdel Aleem</i>	
OPTIMAL DESIGN OF ANTI-RESONANCE THIRD-ORDER HARMONIC FILTERS FOR POWER SYSTEMS OPERATING IN NON-SINUSOIDAL CONDITIONS	127
<i>Ahmed H. Gamily, Ahmed M. Ibrahim, Shady H. E. Abdel Aleem, Martin Calasan</i>	
ON THE NUMBER OF CHANNELS IN MULTICOMPONENT NONSTATIONARY NOISY SIGNAL DECOMPOSITION	134
<i>Miloš Brajovic, Isidora Stankovic, Miloš Dakovic, Danilo P. Mandic, Ljubiša Stankovic</i>	
COMPARISON OF TWO IMAGE DENOISING APPROACHES BASED ON COMPRESSIVE SENSING PRINCIPLES	138
<i>Isidora Stankovic, Milos Brajovic, Ljubisa Stankovic, Milos Dakovic</i>	

Author Index