2021 International Conference on Theoretical and Applicative **Aspects of Computer Science (ICTAACS 2021)**

Skikda, Algeria 15 – 16 December 2021



IEEE Catalog Number: CFP21V48-POD ISBN:

978-1-6654-9656-8

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:
 CFP21V48-POD

 ISBN (Print-On-Demand):
 978-1-6654-9656-8

 ISBN (Online):
 978-1-6654-9655-1

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

COLLECTIVE DDOS DETECTION BY AN ENTROPY-BASED METHOD	1
FUZZY LOGIC BASED SELF-SWITCHING MULTI-STRATEGIC PEDAGOGICAL AGENT Roumaysa Bousselidj, Soufiane Boulehoueche	7
AN IMAGE DATASET FOR LUNG DISEASE DETECTION AND CLASSIFICATION	14
TOWARDS A TRUST-BASED MODEL FOR ACCESS CONTROL FOR GRAPH-ORIENTED DATABASES Samira Telghamti, Lakhdhar Derdouri	20
AN APPROACH FOR COMPOSING MULTIPLE CONTROL LOOPS HIERARCHICALLY	23
ON THE FORECASTING OF BODY TEMPERATURE USING IOT AND MACHINE LEARNING TECHNIQUES	28
Khadidja Makhlouf, Zohra Hmidi, Laid Kahloul, Saber Benhrazallah, Tarek Ababsa	
INTRUSION DETECTION SYSTEMS FOR INDUSTRIAL INTERNET OF THINGS: A SURVEY	34
Djallel Hamouda, Mohamed Amine Ferrag, Nadjette Benhamida, Hamid Seridi	
A FURTHER EXPLORATION OF THE NATURAL INCORPORATION OF MOTIVES IN BDI ARCHITECTURES	42
SEARCHABLE ENCRYPTION FOR MULTI-CLOUDIOT SIMULATION	49
INTERNET OF THINGS: NEW ARCHITECTURE TO ENSURE ROBUSTNESS, SECURITY AND PRIVACY OF IOT SYSTEMS	57
AN EVOLUTIONARY BASED RECOMMENDATION APPROACH	62
MACHINE LEARNING METHODS IN DRUG DISCOVERY: A SELECTIVE REVIEW	71
A TRANSFORMATION APPROACH COMBINING BPMN AND PETRI NET TO VERIFY BUSINESS PROCESSES CONSTRUCTION IN TERMS OF RESOURCE CONSUMPTION USING CLOUD SERVICES	79
Mohammed Nassim Lacheheub, Aymen Bakhbakh, Ahmed Nabih Benlabiod, Ramdane Maamri, Manel Boutarfa, Salheddine Sadouni	
AUTOMATIC LABELING OF TRACKED OBJECTS BASED ON AN INDEXING MECHANISM	87
Imane Allele, Ala-Eddine Benrazek, Zineddine Kouahla, Brahim Farou, Hamid Seridi, Muhammet Kurulay	

TASK-BASED LEARNING ANALYTICS INDICATORS SELECTION USING NAIVE BAYES	
CLASSIFIER AND REGRESSION DECISION TREES	94
Ouissal Sadouni, Abdelhafid Zitouni	

Author Index