2024 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT 2024)

Sakhir, Bahrain 17-19 November 2024

Pages 1-398



IEEE Catalog Number: ISBN:

CFP24R11-POD 979-8-3315-3314-4

Copyright © 2024 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:
 CFP24R11-POD

 ISBN (Print-On-Demand):
 979-8-3315-3314-4

 ISBN (Online):
 979-8-3315-3313-7

ISSN: 2770-7458

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



2024 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)

Machine Learning & Big Data Analytics-1

	Deceptive Phishing Detection and prediction in Social Networking Sites Using Data Mining and Ontology	
	Mohammed Mahmood Ali (Osmania & Muffakham jah college, India)	1
	Data-Driven Decision-Making Based on Revenue	_
	Yana Bondarenko (Oles Honchar Dnipro National University, Ukraine)	7
	Safeguarding Student Data Privacy: A Comparative Study of Anonymization Techniques Using the Mondrian Algorithm	
	Muhammad Ariiq Ramadhan (Sepuluh Nopember Institute of Technology, Indonesia), Nur Aini Rakhmawati (Institut Teknologi	17
	Sepuluh Nopember Surabaya, Indonesia)	13
	Integrating Hybrid Systems for Robust Anomaly Detection in Big Data Youness Filaly (Engineering Sciences Laboratory Ibn Tofail University, Morocco), Nisrine Berros (Engineering Sciences Laboratory Ibn	
	Tofail University, Morocco), Fatna El Mendili (Moulay Ismail University of Meknes, Morocco), Nabil Benamar (Moulay Ismail	
	University & Al Akhawayn University in Ifrane, Morocco), Younès EL Bouzekri El Idrissi (ENSA, Kenitra-Morocco, Mauritania)	19
	A Novel model for Chart-to-Text Generation by utilizing NN models	
	Hamad Munir Malik (University of Bahrain, Bahrain), Nabil Hewahi (UOB, Bahrain)	26
Deep Lo	earning; Image Processing-1 Brain Tumor Detection and Classification using Deep Transfer Learning Approach	
	Maleeha Muzafar Ismail (University of Bahrain, Bahrain), Alauddin Yousif Al-Omary (University of Bahrain, Bahrain)	30
	Cue-Aided Multi-Class Segmentation (CAMS): A Novel Approach for Enhanced Modelling in Dental Panoramic Imaging	
	Rawan Osama Bakr (Nile University, Egypt), Mustafa Elattar (Nile University, Egypt), Sahar Selim (Nile University, Egypt)	37
	Detecting Fraud in Arabic Online Advertisements using Deep Learning Techniques for Image Classification	
	Marouane Dirchaoui (Hassan First University of Settat, Morocco), Abdallah Abarda (Hassan First University of Settat & FEG SETTAT, Morocco)	43
	Alzheimer's Disease Classification with a Hybrid CNN-SVM Approach on Enhanced MRI Data	
	Mostafijur Rahman (Western Illinois University, USA), Md Sabbir Hossain (Western Illinois University, USA), Arifa Akter Eva (American	
	International University - Bangladesh, Bangladesh), Md. Mohsin Kabir (Bangladesh University of Business & Technology,	
	Bangladesh), Muhammad Firoz Mridha (American International University-Bangladesh, Bangladesh), Jungpil Shin (University of AIZU, Japan)	50
	Optimizing Warehouse Logistics: A Comparative Analysis of Deep and Classical Machine Learning Methods for Package Classification	30
	Mohammed Majid M. Al-Khalidy (University of Bahrain & Engineering College, Bahrain), Ahmed Mohammed Majid Al Khalidi	
	(University of Bahrain, Bahrain)	58
Machin	e Learning -1 Machine Learning and Omics Data for Predicting Overall Survival in Glioblastoma Patients Ichraq El Hachimy (Moulay Ismail University of Meknes, Morocco), Nabil Benamar (Moulay Ismail University & Al Akhawayn University in Ifrane, Morocco), Nabil Hajji (Imperial College London, United Kingdom (Great Britain)) Predicting Academic Performance: A Comparative Analysis of Machine Learning Algorithms Sayed Altabtabi (American University of Kuwait, Kuwait), Yousef Dallol (American University of Kuwait, Kuwait), Faisal Jenfawi (American University of Kuwait, Kuwait), Iyad Abu Doush (American University of Kuwait, Kuwait), Marwa Kandil (American	
	University of Kuwait, Kuwait), Faisal Aljanafawi (American University of Kuwait, Kuwait)	111/

	Binary and Ternary Human Gait Phase Classification Using Machine Learning Algorithms	
	Amal Mekni (ISTIC, University of Carthage & RISC Lab, ENIT, University of Tunis El Manar, Tunisia), Jyotindra Narayan (Imperial	
	College London, United Kingdom (Great Britain) & Indian Institute of Technology Guwahati, India), Hassène Gritli (National	
	Engineering School of Tunis & Higher Institute of Information and Communication Technologies, Tunisia)	80
	Integrating Machine Learning with Concrete Science: Bridging Traditional Testing and Advanced Predictive Modelling	
	Saeed Sharif (UEL, United Kingdom (Great Britain)), Salim Barbhuiya (UEL, United Kingdom (Great Britain))	88
	Optimizing Health through Nutrition: Machine Learning Insights for Menopausal Women	
	Logapriya E (Saveetha School of Engineering, India), Surendran R (Saveetha Institute of Medical and Technical Sciences, India),	
	Sundara Rajulu Navaneethakrishnan (Dhanalakshmi Srinivasan University Trichy, India), Appathurai K (KG College of Arts and	
	Science, India)	94
Totoro	ot of Things 1	
meme	et of Things-1	
	The prospects, business opportunities and potential challenges in operating IoT-based phytomediccal laboratory services	
	Joshua Nehinbe (Edo State University, Uzairue, United Kingdom (Great Britain)), Linda Chibuzor (NHS Milton, Keynes, United	
	Kingdom (Great Britain)), Marian Osemwegie (Edo State University Uzairue, Nigeria)	102
	Development and Performance Evaluation of an Automatic Windshield Wiper System for Enhanced Driving Visibility	
	Augusto Miguel P Ramos (Bicol State College of Applied Sciences and Technology, Philippines), Mark Genesis V. Marcelino (Bicol	
	State College of Applied Sciences and Technology, Philippines), Adrian Rey D Santos (Bicol State College of Applied Sciences and	
	Technology, Philippines), John Joshua F. Montañez (Bicol State College of Applied Sciences and Technology, Philippines)	109
	Real-Time Monitoring and Optimization of Recycled Water Irrigation in Coffee Plantations using Bi-directional RNNs and IoT Sensors	
	Raveena S (Saveetha Institute of Medical and Technical Sciences, India), Surendran R (Saveetha Institute of Medical and Technical Sciences, India)	116
	Innovative Ensemble Approaches for Assessing Critical Factors for European Tick Abundance	
	Abin Zorto (UEL, United Kingdom (Great Britain)), Samantha Lansdell (UEL, United Kingdom (Great Britain)), Misaki Seto (UEL, United	
	Kingdom (Great Britain)), Edessa Negera (UEL, United Kingdom (Great Britain)), Sally Cutler (UEL, United Kingdom (Great Britain)),	
	Saeed Sharif (UEL, United Kingdom (Great Britain))	124
	An Innovative Fluid Approach Model for Power Monitoring of Mobile IoT Devices	
	Nourredine Oukas (University of Bouira & University of Boumerdes, Algeria), Menouar Boulif (University M'Hamed Bougara of	
	Boumerdes, Algeria), Akli Abbas (University of Bouira, Algeria), Samia Haboussi (University of Bouira, Algeria)	130
Financ	ial Technology & Artificial Intelligence	
	ian recinite gy et / ii anician interingence	
	A Comparative Study of Sales Prediction Using Machine Learning Models: Integration of PySpark and Power BI	
	Saeed Sharif (UEL, United Kingdom (Great Britain)), Madhav Raj Theeng Tamang (UEL, United Kingdom (Great Britain)), Anup Nepal	40=
	(UEL, United Kingdom (Great Britain))	137
	Revolutionizing Loan Approval: Harnessing the Power of K-Nearest Neighbors for Predictive Eligibility	
	Saeed Sharif (UEL, United Kingdom (Great Britain)), Madhav Raj Theeng Tamang (UEL, United Kingdom (Great Britain)), Niyas Jaheer	
	Hussain (UEL, United Kingdom (Great Britain))	143
	Assessing GPT's Legal Knowledge in Japanese Real Estate Transactions Exam	
	Keito Inoshita (Shiga University, Japan)	149
	Performance Analysis of Machine Learning Techniques for Detecting Money Laundering in Bitcoin Transactions	
	Parisa Salahi (American University of Kuwait, Kuwait), Reem Shady (American University of Kuwait, Kuwait), Iyad Abu Doush	
	(American University of Kuwait, Kuwait), Marwa Kandil (American University of Kuwait, Kuwait)	156
	PayTm Online Wallet Payment's Sentiment Analysis in India Using SVM and RF Model	
	Mohammed Mahmood Ali (Osmania & Muffakham jah college, India)	164

Machine Learning & Big Data Analytics-2

	Empirical Analysis for Arabic Target-Dependent Sentiment Classification using LLMs	
	Alyaa Yahya Alsalem (Najran University, Saudi Arabia), Shadi Ibrahim Abudalfa (King Fahd University of Petroleum & Minerals, Saudi Arabia)	170
	An Innovative Fake News Detection in Social Media with an Efficient Attention-Focused Transformer Slimmable Network	
	Rashmi Rane (Sathyabama Institute of Science and Technology, India), Subhashini R (Sathyabama Institute of Science and Technology, India), Surendran R (Saveetha Institute of Medical and Technical Sciences, India)	177
	Unmasking Harmful Comments: An Approach to Text Toxicity Classification Using Machine Learning in Native Language	
	Afia Ahsan (East West University, Bangladesh), Mohammad Manzurul Islam (East West University, Bangladesh), Abdullahi Chowdhury (University of South Australia, Australia), Md Ali (Universiti Technology Malaysia, Malaysia), Taskeed Jabid (East West University, Bangladesh), Maheen Islam (University of Dhaka & East West University, Bangladesh)	184
	Towards the development of SOA based Big Data model for adoption in the HEI in Bahrain- Case Study	
	Rola Haddadd (University of Bahrain, Bahrain), Ehab Juma Adwan (University of Bahrain, Bahrain), Shurooq Busaleh (University of Bahrain, Bahrain, Bahrain), Walla Khalaifat (University of Bahrain, Bahrain)	190
Deep	Learning; Image Processing-2 Audio Content Processing System for Automatic Music Classification using Mask R-CNN	
	Narsaiah Putta, Sr (Osmania University & Vasavi College of Engineering, India), R Srinivas (Mahatma Gandhi Institute of Technology, India), Dasu Vaman Ravi Prasad (Anurag University, India), S.M. Rawoof (Anwarul Uloom College, India), T Suvarna Kumari	106
	(Chaitanya Bharathi Institute of Technology, India)	196
	Federated Learning-Based Bearing Fault Classification Musa Yenilmez (Firat University, Turkey), Ilhan Aydin (Firat University & Firat, Turkey)	202
	Evaluating Transfer Learning with EfficientNetB0 for Smoking Image Classification	202
	Raihan Atsal Hafizh (Telkom University, Indonesia), Andri Zefrinaldi (Telkom University, Indonesia), Mahmud Dwi Sulistiyo (Telkom University, Indonesia & Nagoya University, Japan)	207
	Green Al: Assessing the Carbon Footprint of Fine-Tuning Pre-Trained Deep Learning Models in Medical Imaging	20.
	Kostas Ordoumpozanis (Aegean University of Greece & Democritus University of Thrace, Greece), George A Papakostas (Democritus University of Thrace, Greece)	214
	Designing a Real-Time Silkworm Cocoon Segregator using Machine Learning	
	Dheeraj G Chakrasali (PES University, India), Ponnuvel K M (Central Silk Board, India), ManthiraMoorthy S (Central Silk Board, India), Manikandan J (PES University (PESU), India)	221
Artific	cial Intelligence-1	
	Towards a Sustainable Metaverse: Exploring Green Innovations and Environmental Considerations	
	Shalini Rastogi (Symbiosis Institute of Business Management Pune & Symbiosis International Deemed University, Pune, India), Deepika Pandita (Symbiosis Institute of Business Management Pune, Symbiosis International (Deemed) University, Pune, India)	227
	A Study on Word Embeddings in Local LLM-based Chatbot Applications	
	Hariprasath S (University College of Engineering & Kakuppam, India), Arjun Paramarthalingam (University College of Engineering Villupuram, India), Shanmugam S (SRM University & SRM Institute of Science and Technology, Chennai, India), Stefano Cirillo (University of Salerno, Italy)	222
	Evaluation of Machine-Learning Based Approaches for Early Detection of Breast Cancer Tumor	232
	Bader Al-Haran (American University of Kuwait, Kuwait), Iyad Abu Doush (American University of Kuwait, Kuwait), Marwa Kandil	
	(American University of Kuwait, Kuwait), Fares Mohammad (Khalifa University, United Arab Emirates)	238
	RAPID: Integrating AI and Multi-Agent Systems for Enhanced Traffic Management Framework with YOLOv9	
	Shadia Baroud (UNIMY, Malaysia, Malaysia), Adnan Yahaya (UNIMY, Malaysia)	246
	Novel Selection Indexes for Additional Selection of Non-dominated Sorting Genetic Algorithms	
	Leo Hagihara (Tottori University, Japan), Makoto Ohki (Graduate School of Tottori University, Japan)	254

Internet of Things-2

Development of a LoRa-Based LRT Real-Time Train Tracker with Arrival Time Estimation	
Gerald P. Arada (De La Salle University, Philippines), Yuan Patrick E. Dumandan (DLSU, Philippines), Ivan Daniel C. Porcincula (De La	
Salle University, Philippines), Arthur Kenji Yoro II (De La Salle University, Philippines), Kyle Marcus E. Ramos (De La Salle University,	
Philippines) Leveraging Artificial Intelligence to Secure Wireless Network: Exploring Threats, Existing Approaches, and Proposed Mitigation Strategies	260
Saeed Sharif (UEL, United Kingdom (Great Britain)), Alice Lee Nan Xin (Sunway University, United Kingdom (Great Britain)), Athirah	
Mohd Ramly (University of East London, United Kingdom (Great Britain)), Mehran Behjati (Sunway University, Malaysia)	266
Enhancing Mobility and Safety for Vulnerable Populations: An IoT-Enabled Smart Walking Frame with Mobile Application Integration	
Ying Mei Leong (Quest International University, Malaysia), Yau Kit Chung (Quest International University, Malaysia), Lip Khi Lim (Newcastle University, United Kingdom (Great Britain))	274
Comparative Analysis of Deep Learning Models for Node Prediction in Low-Power Lossy Networks	
Mohammed Haman (Misurata University, Libya), Salem Omar Sati (Misurata University, Libya & HHU GERMANY, Germany), Kalman	202
Graffi (Honda Research Institute Europe, Germany) Challenges and Opportunities of DevOps for IoT Systems: DevOps_For_IoT	282
Walla Khalaifat (University of Bahrain, Bahrain), Fawzi Abdulaziz Albalooshi (University of Bahrain & College of IT, Bahrain)	280
The Addition (Contests of Burnain, Burnain), 1 and 1 about 222 Abditions (Contests of Burnain & Contege of 1), Burnain (Contests of Burnain)	209
Deep Learning-1	
Named Entity Recognition on User Requirement Analysis with BERT-CNN	
Mohamad Fahmi Syaifudin (Sepuluh Nopember Institut of Technology, Indonesia), Nur Aini Rakhmawati (Institut Teknologi Sepuluh	
Nopember Surabaya, Indonesia), Rarasmaya Indraswari (Institut Teknologi Sepuluh Nopember, Indonesia)	295
Smart Diabetes: An Intelligent Classifier for Continuous Health Monitoring	
Meriam Shawky (Nile University, Egypt), Farah Abd El Fattah (Nile University, Egypt), Mahy Safwat (Nile University, Egypt), Baher	
AbdelMawla (Nile University, Egypt), Beshoy Edwar (Nile University, Egypt), Salma Zakzouk (Nile University, Egypt), M. Saeed Darweesh (Nile University, Egypt)	300
Speech Emotion Recognition Using Deep Learning Techniques and Traditional Classifiers	
Rohit Bele (Lovely Professional University, India), Sanjeev Thakur (Lovely Professional University, India), Tarun Yarlagadda (Lovely Professional University, India), Ved Prakash Chaubey (UpGrad Campus, India), Shamneesh Sharma (Kalinga University & UpGrad Education Private Limited, India), Saikat Gochhait (Symbiosis International Deemed University, India)	306
Real-time Detection of Terminal Burn Defects Using YOLOv7 and TensorRT	500
Emre Güçlü (Fırat University, Turkey), Erhan Akin (Firat University, Turkey), Ilhan Aydin (Firat University & Firat, Turkey), Ahmet Topkaya (Hatko Electronics, Turkey), Mert Onan (Hatko Electronics, Turkey), Taha Kubilay Şener (Fırat University, Turkey)	312
Evaluating the Efficiency of Fine-Tuned Machine Learning Models in Phishing URL Detection	
fatima anter (Image Laboratory, Moulay Ismail University of Meknes, Morocco), Fatna El Mendili (Moulay Ismail University of Meknes, Morocco), Nabil Benamar (Moulay Ismail University & Al Akhawayn University in Ifrane, Morocco), Nabil Mrani (Moulay	
Ismail University of Meknes, Morocco), Mohammed Fattah (University Moulay Ismail, Morocco)	317
Informatics & Software Engineering	
A Forward Chaining Expert System for Personalized Programming Language Selection	
Andi Sholihin (Institut Teknologi Sepuluh Nopember, Indonesia), Shintami Chusnul Hidayati (Institut Teknologi Sepuluh Nopember,	
Indonesia)	324
Technology Readiness for Generative AI among Academic Researchers	
Husain Salman (University of Bahrain, Bahrain), Muhammad Ahmad (Universiti Teknologi Malaysia, Malaysia), Roliana Ibrahim (Universiti Teknologi Malaysia, Malaysia), Jamilah Mahmood (University of Technology Malaysia, Malaysia)	220
PFRS: Personalized Fashion Recommendation System Using EfficientNet	323
Mohammed Mahmood Ali (Osmania & Muffakham jah college, India)	337
	33,

	Innovation of Operational Cost Administration Platform for Freelancers Using Design Thinking Approach Rizky Harliano Putra (Institut Teknologi Sepuluh Nopember, Indonesia), Nur Aini Rakhmawati (Institut Teknologi Sepuluh Nopember Surabaya, Indonesia)	345
	Measuring the Matches Between University Courses: Ontological Comparison-Based Approach	
	Amjad W Hawash (An-Najah National University, Palestine), Shahd Hamdan (An-Najah National University, Palestine), Salma Ibrahim (An-Najah National University, Palestine)	351
Deep L	earning-2	
	Next-Gen Assistive Technology: AI Applications for Deaf-Mute and Blind Communities	
	Tushar Bharti (Lovely Professional University, India), Shashwat Singh (Lovely Professional University, India), Ved Prakash Chaubey	
	(UpGrad Campus, India), Shivangini Gupta (UpGrad Education Private Limited, India), Shamneesh Sharma (Kalinga University & UpGrad Education Private Limited, India), Shamneesh Sharma (Kalinga University & UpGrad Education Private Limited, India), Saikat Gochhait (Symbiosis International Deemed University, India)	359
	Boosting Cell Site Stability: LTE Congestion Prediction with Machine Learning and Deep Learning	
	Deyaa Elsayed (Nile University, Egypt), Amgad Abdelaziz (Nile University, Egypt), Zeyad Yassien (Nile University, Egypt), Amr El-Berry (Nile University, Egypt), Omnia Yasser (Nile University, Egypt), Mohamed Gad (Orange Egypt, Egypt), M. Saeed Darweesh (Nile	
	University, Egypt)	366
	Exploring Deep Learning Architectures for Effective Visual Question Answering	
	Shofa Wardatul Jannah (Institut Teknologi Sepuluh Nopember, Indonesia), Gagatsatya Adiatmaja (Institut Teknologi Sepuluh	
	Nopember, Indonesia), Bilal Hidayaturrohman (Institut Teknologi Sepuluh Nopember, Indonesia), Yunus Dwi Santoso (Institut Teknologi Sepuluh Nopember, Indonesia), Rarasmaya Indraswari (Institut Teknologi Sepuluh Nopember, Indonesia)	272
	Al Integration in Medical Imaging: Advanced Analysis of Chest X-ray	3/2
	Danushka Bandara (UEL, United Kingdom (Great Britain)), Thamo Sutharssan (UEL, United Kingdom (Great Britain)), Saeed Sharif (UEL, United Kingdom (Great Britain))	378
	Hybrid Metaheuristic and Artificial Neural Network Approach for Solving Inverse Kinematics of a SCARA Manipulator Robot	
	Rania Bouzid (University of Carthage & Higher Institute of Information Technologies and Communication (ISTIC), Tunisia), Jyotindra Narayan (Imperial College London, United Kingdom (Great Britain) & Indian Institute of Technology Guwahati, India), Hassène Gritli (National Engineering School of Tunis & Higher Institute of Information and Communication Technologies, Tunisia)	385
Cyber	security-1	
	CTI4RA: Cyber Threat Intelligence for Risk Assessment	
	Vita Santa Barletta (University of Bari, Italy), Nicola Balzano (University of Bari Aldo Moro, Italy), Lorenzo Colelli (University of Bari Aldo Moro, Italy), Alessandro Pagano (University of Bari & Osel S. R. L., Italy), Antonio Piccinno (University of Bari, Italy), Qaisar Sohail (University of Bari Aldo Moro, Italy)	393
	AI Phishing Detection Framework for Businesses with Limited Resources	
	Rhythm Jaiswal (Ajay Kumar Garg Engineering College, India), Marshal R (Ministry of Electronics and Information Technology, Government of India, India), Venkateswara Rao (JNTUK & DeitY, India), Kirti Pal Singh (CERT-In, India)	399
	A Systematic Literature Review of Models and Factors Influencing E-learning Cybersecurity Awareness Among University Students	
	Fatima Aljazeeri (University of Bahrain, Bahrain), Hasan Hameed Abdulla (University of Bahrain, Bahrain), Shaikha Hasan (University of Bahrain, Bahrain), Zainab Almahafdha (British University of Bahrain, Bahrain), Jafla Al-Ammari (University of Bahrain, Bahrain)	405
	A Privacy-Preserving Method for Ethereum Transactions	
	Salam A. Tabet (American University of Beirut, Lebanon), Ayman Kayssi (American University of Beirut, Lebanon)	413
	Adversarial Resilience in Image Classification: A Hybrid Approach to Defense	
	Hetvi Mahendra Waghela (Praxis Business School, Kolkata, India), Jaydip Sen (Praxis Business School, India), Sneha Rakshit (Praxis Business School, Kolkata, India)	419

Telecommunication and Networking

	TrackID: RFID-Based Student Monitoring System for Accessing Institutional Campus	
	Christian Jay H Valdez (Bicol State College of Applied Sciences and Technology, Philippines), Yssa Mae Nivales (Bicol State College of Applied Sciences and Technology, Philippines), Rodelyn Joy R. Uy (Bicol State College of Applied Sciences and Technology,	
	Philippines), John Joshua F. Montañez (Bicol State College of Applied Sciences and Technology, Philippines)	427
	Convolutional Neural Network Implementation of DOA Estimation in Low Number of Snapshots and Low Signal-to- Noise Ratio Scenarios	
	Mark Lawrence P Velasco (De La Salle University & None, Philippines), Gerald P. Arada (De La Salle University, Philippines), Argel Bandala (De La Salle University, Philippines)	435
	Regression Based Sound Source Localization by Harnessing Synthetic Datasets	
	Sarangan Raveendranathan (University of Moratuwa, Sri Lanka), Divakaran Varatharajan (University of Moratuwa, Sri Lanka), Sajeethan Gulendran (University of Moratuwa, Sri Lanka), Buddhika Prabhath Jayasekara (University of Moratuwa, Sri Lanka)	441
	Deep reinforcement learning applied to ORIS-aided Downlink MU-MIMO VLC Systems	
	Mohamed El jbari (Abdelmalek Essaadi University Morocco & Tangier, Morocco)	447
	A New Petri Net Model for Evaluating the Energy of Autonomous RF Devices in the Internet of Things Context Under Jamming Attacks	
	Nourredine Oukas (University of Bouira & University of Boumerdes, Algeria), Hakim Boudjelaba (LIM Laboratory, University of	
	Bouira, Algeria), Menouar Boulif (University M'Hamed Bougara of Boumerdes, Algeria), Abderrezak Djouabri (University of Msila, Algeria)	155
Artific	ial Intelligence-2	
	Enhancing Processor Performance using Bidirectional LSTM Memory Prefetching	
	Rachana Prafulla Gade (COEP Technological University, Pune, India), Saurabh Bhalchandra Jog (COEP Technological University, Pune, India), Aditya Shankar Bornare (COEP Technological University, Pune, India), Amit Joshi (COEP Technological University Pune, India), Suraj Sawant (College of Engineering, Pune, India)	462
	Analysis of Defectives in a Call-Center Process Quality under 2-Dimensional Uncertain Linguistic Data by Attribute Control Charts	
	Ali Karasan (Yildiz Technical University, Turkey), Esra Ilbahar (Yildiz Technical University, Turkey), Fatma Kutlu Gündoğdu (National Defence University, Turkey), Kübra Yazır (University of Yildiz Technical, Turkey), Elifnaz Olgac (Yildiz Technical University, Turkey), İhsan Kaya (Yildiz Technical University, Turkey)	470
	ACyLeR: An enhanced iTransformer for Long-Term Time-Series Forecasting Using Adaptive Cycling Learning Rate	
	Mustafa Kamal (Sepuluh Nopember Institute of Technology & Telkom University, Indonesia), Ary Mazharuddin Shiddiqi (Sepuluh Nopember Institute of Technology, Indonesia), Ervin Nurhayati (Institut Teknologi Sepuluh Nopember, Indonesia), Andika Laksana	
	Putra (Sepuluh Nopember Institute of Technology, Indonesia), Farrela Ranku Mahhisa (Sepuluh Nopember Institute of Technology, Indonesia)	475
	Intelligent Drug Release System Development and Evaluation via Support Vector Machine Algorithm	
	G. Kalyani (Ruralcare Innovators LLP, India), Venkatesh Jayaraman (Chennai Institute of Technology, India), Sathish kumar P. J (Vel Tech Multitech SRS Engineering College, India), Surendran R (Saveetha Institute of Medical and Technical Sciences, India),	401
	Balamurugan K S (Karpaga Vinayaga College of Engineering and Technology, India) Weighted Loss Integrated Fine-Tuned VIT Model for Multi-Class Human Facial Emotion Recognition	461
	Md. Hanif Sikder (University of South Asia, Bangladesh, unknown), Shekh Tanjil Sharif (Institute of Science Trade & Technology	
	(ISTT) & National University Bangladesh, Bangladesh), Md Sakib Hossain Shovon (American International University-Bangladesh, Bangladesh), Jungpil Shin (University of AIZU, Japan), M. Firoz Mridha (American International University-Bangladesh (AIUB),	
	Bangladesh)	487
Deep	Learning-3	
	Deep Learning-Based Tomato Disease Detection for Smart Agriculture	
	Abdelhak Merizig (Mohamed Khider University of Biskra & LINFI Laboratory, Algeria), Roufaida Khebbache (LINFI Laboratory, Mohamed Khider University of Biskra, Algeria), Bilal Mokhtari (Mohamed Khider University of Biskra, Algeria), Rabie Nouar (National	
	Well Services Company (ENSP), Algeria), Khaled Rezeg (Mohamed Khider University of Biskra, Algeria)	495

	Unveilling Soil Fertility Classification with Explainable Al	
	Roufaida Khebbache (LINFI Laboratory, Mohamed Khider University of Biskra, Algeria), Abdelhak Merizig (Mohamed Khider	F04
	University of Biskra & LINFI Laboratory, Algeria), Khaled Rezeg (Mohamed Khider University of Biskra, Algeria)	501
	Abdulla Almahmood (University of Bahrain, Bahrain), Hesham Alammal (University of Bahrain, Bahrain), Fatema Albalooshi	
	(University of Bahrain, Bahrain)	508
	Replacement Policy Performance Analysis LRU Insertion Policy (LIP) On X86 Computer Architecture	
	Oka Adabi (Telkom University, Indonesia), Hilal H. Nuha (Telkom University, Indonesia), Febri Dawani (Telkom University, Indonesia),	
	Demi Adridana (Telkom University, Indonesia), Rana Zaini Fathiyana (Telkom University, Indonesia), Hassan Sailellah (Telkom	
	University, Indonesia)	515
	Percept-Diff: Innovations in Stable Diffusion for High-Fidelity IHC Image Generation in HER2 Breast Cancer incorporating Perceptual Loss	
	Md. Naimur Asif Borno (Rajshahi University of Engineering & Technology, Bangladesh), Md. Tanvir Raihan (Rajshahi University of	
	Engineering & Technology, Bangladesh), Abir Ahmed (Shahjalal University of Science & Technology, Bangladesh), Md Sakib Hossain	
	Shovon (American International University-Bangladesh, Bangladesh), Jungpil Shin (University of AIZU, Japan), M. Firoz Mridha (American International University-Bangladesh (AIUB), Bangladesh)	520
	Development of an Al-based website for Automated Pre-Operative Planning in Aortic Valve Replacement using Deep Learning	320
	John Lorance William (Nile University, Egypt), Nadin Farid Elshafey (Nile University, Egypt), Nadine Abdallah (Nile University, Egypt),	
	Nouran Hady Shaaban (Nile University, Egypt), Sama Ahmed Okasha (Nile University, Egypt), Mustafa Elattar (Nile University,	
	Egypt)	527
E loarr	sing: challonges transformation and IT Solution	nc
L-leali	ning: challenges, transformation, and IT Solutic	7115
	Leveraging Gamified Learning Management Systems to Enhance E-Learning Outcomes	
	Fatima Vapiwala (Symbiosis Institute of Business Management, Pune & Symbiosis International (Deemed) University, Pune, India),	F2F
	Deepika Pandita (Symbiosis Institute of Business Management Pune, Symbiosis International (Deemed) University, Pune, India)	535
	Anant Jain (Symbiosis Institute of Business Management, Pune & Symbiosis International Deemed University, India), Deepika	
	Pandita (Symbiosis Institute of Business Management Pune, Symbiosis International (Deemed) University, Pune, India)	541
	Application of Clustering Algorithms to enhance Personalized Learning through Recommendation Model	
	Saeed Sharif (UEL, United Kingdom (Great Britain)), Dyuthi Mani (UEL, United Kingdom (Great Britain)), Madhav Raj Theeng Tamang	
	(UEL, United Kingdom (Great Britain))	547
	Gender Equality Through E-learning: A Machine Learning Approach to Measuring Impact	
	Farzaneh Lashgari (Universidade da Beira Interior, Portugal), Mehran Pourvahab (University of Beira Interior (UBI) & MehranNet Internet Service Provider, Portugal), Aazaade Faraji (University of Beira Interior, Portugal), Anilson José Pereira Monteiro	
	(Universidade da Beira Interior, Portugal), Sebastiao Pais (Universidade da Beira Interior, Portugal), Nuno Pombo (University of Beira	
	Interior, Portugal)	553
	Computer Networks Educational System: Annotation-Based Learning	
	Amjad W Hawash (An-Najah National University, Palestine), Sanabel Sultan (An-Najah N. University, Palestine), Duaa Dabeek (An-	
	Najah National University, Palestine), Shahd Awwad (An-Najah National University, Palestine)	560
Robot	Vision; Motion detection	
NODOL	VISION, IVIOLION detection	
	Autonomous Navigation For TurtleBot3 Robots in Gazebo Simulation Environment	
	Madhav Raj Theeng Tamang (UEL, United Kingdom (Great Britain)), Darshana Maheriya (UEL, United Kingdom (Great Britain)), Saeed Sharif (UEL, United Kingdom (Great Britain)), Thamo Sutharssan (UEL, United Kingdom (Great Britain))	E60
	Innovative Development and Deployment of an Arduino-Based Solar Tracking Mechanism	308
	Arnel Jr. A Elgario (Bicol State College of Applied Sciences and Technology, Philippines), Marco Antonio Jr R Damasig (Bicol State	
	College of Applied Sciences and Technology, Philippines), Jenebelle Monta (Bicol State College of Applied Sciences and	
	Technology, Philippines), John Joshua F. Montañez (Bicol State College of Applied Sciences and Technology, Philippines)	575
	Accelerating Disaster Response with Deep Learning and Image Processing Techniques	
	Ilhan Aydin (Firat University & Firat, Turkey), Çağrı Karakaş (Firat University, Turkey), Erhan Akin (Firat University, Turkey)	583

	Adaptive Heuristic Pathfinding Algorithm (AHPA): a Dynamic Path Adjuster for Mobile Robots	
	Akash Aman (IIIT Agartala, India), Abir Debnath (NIT Agartala, India), Saurabh Kumar (IIIT Agartala, India), Rahul Dev Sarkar (IIIT Agartala, India), Rapti Chaudhuri (NIT Agartala, India), Suman Deb (National Institute of Technology Agartala, India)	588
	ARMeD: Revolutionizing Assistive Rehabilitation Monitoring	300
	Estrelita Manansala (Far Eastern University Institute of Technology, Philippines), Mona Earl P. Bayono (FEU Institute of Technology,	
	Philippines), Nino Pilueta (FEU Institute of Technology, Philippines), Francis Ralph C. Danipog (FEU Institute of Technology, Philippines), Andrey Gabriel V. Fermin (FEU Institute of Technology, Philippines), Elly Roi Dominic F. Francisco (FEU Institute of	
	Technology, Philippines), Miguel Luis M Jacinto (FEU Institute of Technology, Philippines), Marc Joseph M. Respicio (FEU Institute of	
	Technology, Philippines)	595
Renev	vable Energy & Smart Grids	
	3, 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Dual-Loop Control of a Monophase Converter Utilizing LMI-Based Optimization with PI	
	Sokvan In (National Polytechnic Institute of Cambodia, Cambodia), Sokun Ieng (National Polytechnic Institute of Cambodia,	
	Cambodia), Suy Kimsong (National Polytechnic Institute of Cambodia, Cambodia), Sophea Nam (National Polytechnic Institute of	
	Cambodia, Cambodia), Heng Tang (National Polytechnic Institute of Cambodia, Cambodia), Sokna San (National Polytechnic Institute of Cambodia, Camb	
	Cambodia)	601
	Balancing Power in a Grid-Linked Inverter with an Unbalanced Grid Through Parallel Current Control	
	Panha Soth (National Polytechnic Institute of Cambodia, Cambodia), Chivon Choeung (National Polytechnic Institute of Cambodia,	
	Cambodia), Sokna San (National Polytechnic Institute of Cambodia, Cambodia), Socheat Yay (NPIC, Cambodia), Heng Tang	
	(National Polytechnic Institute of Cambodia, Cambodia), Vanna Torn (National Polytechnic Institute of Cambodia, Cambodia), Sokvan In (National Polytechnic Institute of Cambodia, Cambodia), Horchhong Cheng (National Polytechnic Institute of Cambodia,	
	Cambodia)	606
	Modeling of an off-grid Stand Alone Solar PV with Battery Backup System for an Isolated Rural Area	
	Md Ismail Hossain (American International University Bangladesh, Bangladesh), Riadul Islam (American International University-	
	Bangladesh, Bangladesh), Shirin Begum (Lamar University, USA), Nasif Hannan (American International University-Bangladesh,	
	Bangladesh), Md. Tanvir Rahman (American International University-Bangladesh, Bangladesh), Abu Shufian (American International University-Bangladesh, Bangladesh)	611
	Design and Feasibility of Off-Grid Photovoltaic Charging Stations for EVs in Remote Areas	011
	Md Ismail Hossain (American International University Bangladesh, Bangladesh), Sowrov Komar Shib (American International	
	University- Bangladesh, Bangladesh), Durjoy Roy Dipto (American International University-Bangladesh, Bangladesh), Tanay Banik	
	(American International University-Bangladesh, Bangladesh), Abu Shufian (American International University-Bangladesh,	
	Bangladesh), Md Mukter Hossain Emon (Lamar University, USA)	617
	Enhancing Thermal Comfort in Buildings with Machine Learning-Based Overheating Prediction Mithun Vijayakumar Rajalekshmi (UEL, United Kingdom (Great Britain)), Arman Hashemi (UEL, United Kingdom (Great Britain)),	
	Saeed Sharif (UEL, United Kingdom (Great Britain))	623
Daara	Loomping, Dottom Docognition	
Deep	Learning; Pattern Recognition	
	Human Activity Recognition Using Feedforward Backpropagation Neural Network	
	Fadi Al Debs (American University of Science & Technology, Lebanon), Makram El Jurdy (American University of Science &	
	Technology, Lebanon), Elias Fares (American University of Science and Technology, Lebanon), Gaby H Abou Haidar (American University of Science and Technology, Lebanon), Michel J Owayjan (American University of Science & Technology, Lebanon), Roger	
	Achkar (American University of Science and Technology, Lebanon)	630
	An Investigation in Bahraini Dialect Text to Speech Synthesis Models and Datasets	
	Mohamed Basel Almahmood (University of Bahrain, Bahrain), Fatema Albalooshi (University of Bahrain, Bahrain), Hesham Alammal	
	(University of Bahrain, Bahrain)	636
	Comprehensive Evaluation of Federated Learning Based Models for Disease Detection in Healthcare	
	R Jayalakshmi (Panimalar Engineering College, India), Tamilvizhi T (Panimalar Engineering College, India), P Ramya (Panimalar Engineering College, India)	643
	SubConvFusion3D: A Multi-Scale Sub-Convolutional Networks and Feature Fusion for 3D Deep Learning	073
	Abdelhakim Benkrama (University Batna 2, Algeria), Bilal Mokhtari (Mohamed Khider University of Biskra, Algeria), Kamal Eddine	
	Melkemi (University of Batna II, Algeria), Sebti Foufou (University of Sharjah, United Arab Emirates), Dominique Michelucci	
	(University of Burgundy France)	651

	Breust Curicer Diagnosis with XAI-Integrated Deep Learning Approach	
	Sharia Arfin Tanim (Learnify Research Lab & Advanced Machine Intelligence Research Lab, Bangladesh), Gazi Mohammad Imdadul	
	Alam (East Delta University, Bangladesh), Tahmid Enam Shrestha (American International University-Bangladesh, Bangladesh),	
	Maruful Islam (International Islamic University Chittagong, Bangladesh), Fariha Jahan (American International University-	
	Bangladesh, Bangladesh), Kamruddin Nur (American International University-Bangladesh, Bangladesh)	659
Inforn	natics	
	Understanding Creative Arts Students' Views on NFTs: A Study Through Maurice Merleau-Ponty's Theoretical Framework	
	Nor Hana Fauzin Muhammad Fauzi (University of Technology MARA, Malaysia), Muhamad Fairus Kamaruzaman (Universiti Teknologi MARA, Malaysia), Nor Azlin Hamidon (Universiti Teknologi MARA, Malaysia)	666
	Content-Based Recommendation System for Craft Owners Based on User Preferences and Availability	
	Amjad W Hawash (An-Najah National University, Palestine), Raghad Alia (An-Najah National University, Palestine), Islam Msalam	
	(An-Najah National University, Palestine)	674
	Exploring ChatGPT Integration in Classrooms: Impact on Student Engagement and Personalized Learning Support	
	Anna Lyza Sancho Felipe (RMIT University Vietnam, Vietnam), Mia V Eleazar (University of Santo Tomas, Philippines), Armin B.	
	Aragoncillo (Cavite State University & Pateros Technological College, Philippines), Lilibeth Serencio Azuela (Kingdom University &	
	College of Information Technology, Bahrain), Herbert Penoso Azuela (American University of Bahrain, Bahrain), Ushik Shrestha	
	Khwakhali (RMIT University Vietnam, Vietnam), Reagan Bendisula Ricafort (Institute of Information and Communication Technology & Pateros Technological College, Philippines)	682
	Content and Activity Based Friends Suggestion in an Annotation System	
	Amjad W Hawash (An-Najah National University, Palestine), Ahmed Awad (An-Najah N. University, Palestine), Jana Taha (An-Najah National University, Palestine), Ramah Hawash (An-Najah National University, Palestine)	689
	Investigating the Effects of Age on Senior Citizens During Hands-Free Mobile Phone Activity	003
	Boniface Ndubuisi Ossai (UEL, United Kingdom (Great Britain)), Saeed Sharif (UEL, United Kingdom (Great Britain)), Cynthia Fu (UEL, United Kingdom (Great Britain))	607
Robo	tics, Computer Vision, and HCI-1	
	Comparative of SVM and Decision Tree Techniques for Predicting Hydroponic Tomato Growth and Yield Using Deep Water Culture	
	Pavan Kalyan (Saveetha Institute of Medical and Technical Sciences, India), Surendran R (Saveetha Institute of Medical and Technical Sciences, India), Sciences, India), Sciences, India)	705
	DeepLabv3+Att: Integrating Attention Mechanisms in DeepLabv3 for Enhanced Road Segmentation	
	Md Sabbir Hossain (Western Illinois University, USA), Mostafijur Rahman (Western Illinois University, USA), Mumtahina Ahmed	
	(Bangladesh University of Business & Technology, Bangladesh), Md. Mohsin Kabir (Bangladesh University of Business & Technology, Bangladesh), M. Firoz Mridha (American International University-Bangladesh (AIUB), Bangladesh), Jungpil Shin (University of AIZU, Japan)	711
	BowlNet: An Ultra Lightweight Architecture for Real-Time Semantic Segmentation on Resource Constrained Environments	
	Ananya S Nadig (PES University, India), Anagha Naga Preethi Tammana (PES University, India), Amogh Aryasomayajula (PES University, India), Adith Pradeepan (PES University, India), Manikandan J (PES University (PESU), India)	719
	A New Transformer Based On Thin Section Rock Images with Self-Attention Module	
	Ilhan Aydin (Firat University & Firat, Turkey), Ayse Didem Kilic (Firat University, Turkey), Taha Kubilay Şener (Firat University,	
	Turkey)	727
	Robot localization in a Wireless Sensor Network using Israa Collecting Algorithm	
	Israa Sabri Abdulameer AL-Forati (University of Basrah & Basrah Iraq, Iraq)	733

Smart Cities & Cloud Computing

Determining Delivery Demand Area Distribution Using Effective Regions of Movement Clustering	
Elmer R Magsino (University of the Fraser Valley, Canada), Gerald P. Arada (De La Salle University, Philippines), Catherine Manuela Lee Ramos (De La Salle University, Philippines)	739
Determination of Cause-Effect Relation among Success Factors of Small-Scale Hydrogen Valley Site Selection for Smart City Energy Security	
Ozge Akdeniz (Yildiz Technical University, Turkey), Elifnaz Olgac (Yildiz Technical University, Turkey), Ali Karasan (Yildiz Technical University, Turkey)	745
Efficient Virtual Resource Management in Nested Virtualization Environments	
Abderrahim Bouchair (University of Oran1 Ahmed Ben Bella & National Higher School of Tourism, Algeria)	751
Factors Affecting Individuals' Adoption of Cloud Computing	
Ali H Zolait (University of Bahrain, Bahrain), Fatima Ashoor (University of Bahrain, Bahrain), Zainab Hubail (University of Bahrain, Bahrain)	757
The Social Impact of Digital Technologies on Cultural Heritage: Preserving Shu Brocade Patterns through Non-Fungible Tokens	
Lei Xu (University of Technology MARA & Chengdu University, Malaysia), Muhamad Fairus Kamaruzaman (Universiti Teknologi MARA, Malaysia), Rusmawati Ghazali (Universiti Teknologi MARA, Malaysia)	765
Cyber security-2 Decentralized Healthcare Crowdfunding: Leveraging Smart Contracts for Global Medical Research and Treatment	
Miracle Agholor (UEL, United Kingdom (Great Britain)), Shaheen Khatoon (UEL, United Kingdom (Great Britain)), Saeed Sharif (UEL, United Kingdom (Great Britain))	771
Awareness of Cybersecurity: The case of Internet of Things among Bahrainis	
Ali H Zolait (University of Bahrain, Bahrain)	777
Enhancing Security: Evaluating RFID-Based Access Control Systems	
You Zhi Yang (Sunway University, United Kingdom (Great Britain)), Saeed Sharif (UEL, United Kingdom (Great Britain)), Athirah Mohd Ramly (University of East London, United Kingdom (Great Britain))	784
Phishing Detection on URL Data Using K-Nearest Neighbors Method	
Muhamad Irsan (Telkom University, Indonesia), Fachrul Febriana (Telkom University, Indonesia), Hilal H. Nuha (Telkom University, Indonesia) Indonesia), Hassan Sailellah (Telkom University, Indonesia)	792
Detection and Analysis of Flipper Zero Deauthentication Signals Using HackRF One Software-Defined Radio	
Leonel R Calderon (Polytechnic University of the Philippines & Bluedotcorp, Philippines), Geoffrey T Salvador (Polytechnic University	
of the Philippines, Philippines)	798
Robotics, Computer Vision, and HCI-2 Avoiding Head-On Collisions For Self Driving Vehicles	
Oshoke Umoru (Edo State University, Uzairue, Nigeria), Joshua Nehinbe (Edo State University, Uzairue, United Kingdom (Great Britain)), Glory Edegbe Edegbe (Edo State University, Uzairue, Nigeria)	805
Detectron2 Powered-Image Segmentation and Object Detection for Smart Weed Control Program in Coffee Plantation	
Raveena S (Saveetha Institute of Medical and Technical Sciences, India), Surendran R (Saveetha Institute of Medical and Technical Sciences, India)	812
Assisting Neurosurgeons: Advancing Brain Tumor Surgery with Smartphone Augmented Reality Navigation	
Muhammad Iskandar Java (Institut Teknologi Sepuluh Nopember, Indonesia), Shintami Chusnul Hidayati (Institut Teknologi Sepuluh Nopember, Indonesia), Riyanarto Sarno (Institut Teknologi Sepuluh Nopember, Indonesia), Yeni Anistyasari (Universitas Negeri Surabaya, Indonesia), Khurshed Ali (Sukkur IBA University, Pakistan)	820
A Polymer-based Femoral Stem Implant: Finite Element Analysis Study	020
Ludovica Crobu (UEL, United Kingdom (Great Britain)), Samir Morad (UEL, United Kingdom (Great Britain)), Saeed Sharif (UEL, United Kingdom (Great Britain))	826
· // // // // // // // // // // // // //	020

U	npaired Image-to-Image Translation for High-Accuracy CTA Generation from CT Images Using Cycle GAN	
	Nancy Mohamed Soliman, Master (Medical Imaging and Image Processing Research Group, Center for Informatics Science, Nile	
	University & Research Assistance at Nile University, Egypt), Mohamed El-Helw (Nile University, Egypt), Mustafa Elattar (Nile	
	University, Egypt)	. 832

Deep Learning & Game Playing

An Exploration of Autonomous vehicles for reducing Rear-end collisions	
Oshoke Umoru (Edo State University, Uzairue, Nigeria), Joshua Nehinbe (Edo State University, Uzairue, United Kingdom (Great	
Britain))	337
Implementation of 8-Puzzles Game on Android Operating System Based on Accelerometer Sensor Control	
Syahdi Gharizah Ahsan (Telkom University, Indonesia), Hilal H. Nuha (Telkom University, Indonesia), Satria Akbar Mugitama (Telkom University, Indonesia), Hassan Sailellah (Telkom University, Indonesia), Rana Zaini Fathiyana (Telkom University, Indonesia)	343
Improving Online Computation Offloading in Mobile-Edge Computing Networks using Deep Reinforcement Learning	
Yohanes Armenian Putra (Telkom University, Indonesia), Hilal H. Nuha (Telkom University, Indonesia), Hassan Sailellah (Telkom	
University, Indonesia)	347
Protection Against Virtual Jamming Using Naïve Bayes on NS-2	
Erwid Jadied (Telkom University, Indonesia), Bagas Riyadi (Telkom University, Indonesia), Hilal H. Nuha (Telkom University, Indonesia), Hassan Sailellah (Telkom University, Indonesia), Sutiyo Sutiyo (Telkom University, Indonesia)	353
Gender Specific Speech Enhancement Architecture for Improving Deep Neural Networks Learning	
Soha A. Nossier (Alexandria University, Egypt), Saeed Sharif (UEL, United Kingdom (Great Britain))	357