

## International Conference on Electrical, Computer and Energy Technologies

### (ICECET 2024)

#### CONFERENCE PROGRAM (*Online Part*)

July 26 <sup>th</sup> , 2024			
Time	HALL-A	HALL-B	HALL-C
09:00-09:30	Keynote Speech		
09:30-11:30	Session A-I: Artificial Intelligence - I	Session B-I: Energy - I	Session C-I: Communications
11:30-11:45	COFFEE BREAK		
11:45-13:45	Session A-II: Artificial Intelligence - II	Session B-II: Energy - II	Session C-II: Computer Vision
13:45-14:30	LUNCH		
14:30-16:30	Session A-III Big Data & Data Science	Session B-III: Energy - III	Session C-III: Cybersecurity
16:30-16:45	COFFEE BREAK		
16:45-18:45	Session A-IV: Mixed - I	Session B-IV: Mixed - II	Session C-IV: Mixed - III

July 27 <sup>th</sup> , 2024			
Time	HALL-A	HALL-B	HALL-C
09:00-11:00	Session A-V: Machine Learning	Session B-V: Control & Automation	Session C-V: El. Vehicles & Embedded Sys.
11:00-11:15	COFFEE BREAK		
11:15-13:15	Session A-VI: Deep Learning	Session B-VI: AI & Cloud Comp.	Session C-VI: Cybersecurity & Information Sec.
13:15-14:00	LUNCH		
14:00-16:00	Session A-VII DL & ML & IoT	Session B-VII: Neural Net. & Modelling	Session C-VII: Smart Grid & Signal Proces.
16:00-16:15	COFFEE BREAK		
16:15-18:15	Session A-VIII: Embedded Sys. & Bioinformatics	Session B-VIII: Mixed - IV	Session C-VIII:

09:00-09:30

Keynote Speech

09:30-11:30

Parallel Session A-I: Artificial Intelligence - I  
Chair:

ID	Authors	Title
660	<b>Eleni Aloupogianni</b> , Faiyaz Doctor, Charalampos Karyotis, Tomasz Maniak, Raymond Tang, Rahat Iqbal	An AI-based Digital Twin Framework for Intelligent Traffic Management in Singapore
686	<b>Ginorajh Ravichandiran</b> , Vaishnavi Sivabaskaran, Thulaxan Uthayakumar, Senthalan Vyravanathan, Jenny Krishara, Karthikga Rajendran	Revolutionizing Tamil Language Analysis: A Natural Language Processing Model Development Approach
690	<b>Kolli Nethre Sai</b> , Upamanyu Wable, Ayush Singh, Koundinya N V S S, Harichandana Gonuguntla, Chirag Jain	Harnessing Multimodal AI for Creative Design: Performance Evaluation of Stable Diffusion and DALL-E 3 in Fashion Apparel and Typography
694	<b>Jun Jang</b> , Thai Le	The Art of Deepfake Text Obfuscation: Lessons Learned from a Manual, First-Person Perspective
701	<b>Nishat Tasnim</b> , Yong Shi, Kun Suo, Xinyue Zhang	Enhancing Genomic Datasets with cGANs: A Study on Synthetic DNA Sequences for Non-Human Species
719	<b>Su-Bin Cho</b> , Ju-Yeon Oh, Ye-Ryeong Hong, Seong-Geon Bae	A Study on Generating Cartoon Images using Pixel Distributions based on Cluster Classifications in CartoonGAN
781	<b>Barun Kumar Saha</b> , Anoop A. Parapurath	Artificial Intelligence-based Segregation of Power Grid Disturbance Records
786	<b>Shayma Wail Nourildean</b>	Artificial Internet of Things (AIoT): A Review
874	Angela Maria Alves, Euclides Lourenço Chuma, Gabriel Caumo Vaz, <b>Gabriel Gomes De Oliveira</b> , Leonardo Lorenzo Bravo Roger, Yuzo Iano	AI Ethics in IoT: Involving Society in the Discussion

09:30-11:30

Parallel Session B-I: Energy - I  
Chair:

ID	Authors	Title
162	<b>Hein Wai Yan</b> , Gaowen Liang, Glen G. Farivar, Hossein Dehghani Tafti, Neha Beniwal, Josep Pou	Enhanced Energy Storage Utilization Under Partial Shading Conditions in a Microgrid with Flexible Photovoltaic Power Control
198	Emil-Ronald Edu, <b>Mircea-Bogdan Radac</b>	Control of Wind Turbines Operating at Significantly Variable Wind Speeds Over Time
218	<b>M. Scott Trimboli</b> , Gregory L. Plett	Perspectives on Employing Physics-based Battery Management for Electric Vehicles
226	<b>Mamosothoane Hetsa</b> , Motlatsi Lehloka	Impact of Distributed Generation on Power Systems: Ramarothole Solar Plant Case Study- Status Review
251	<b>Nikhil Jayaraj</b> , Subramaniam Ananthram, Anton Klarin	Residential Solar Adoption and transition towards Solar Energy Storage for a sustainable future
263	<b>Ahmed Twabi</b> , Charles Nammelo, Chomora Mikeka, Harry Khudze	Quantifying the Performance Variability of a Voltage Quadrupler Circuit in Urban Malawi
299	Jacky Petit-Homme, <b>Denisson Q. Oliveira</b> , Pierre O. Dorile	Heuristic Planning for the Expansion of an Electric Transmission Network for the Incorporation of a Wind Power Plant

333	<b>Nicolae Daniel Fiță</b> , Dan Codruț Petrilean, Ioan Lucian Diodiu, Andrei Cristian Rada, Adrian Mihai Schiopu, Florin Mureșan-Grecu	Analysis of the causes of power crises and their impacts on energy security
370	Roberto Junior, <b>Carlos Kleber C. Arruda</b> , Ricardo Wesley Garcia, João Clavio Salari Filho, Adriano Dellallibera	The Technological Disruption Caused by the Composite Insulator Crossarm in the Electrical Energy Transmission Sector
395	<b>Aryyama Kumar Jana, Srija Saha</b>	Comparative Performance analysis of Machine Learning Algorithms for stability forecasting in Decentralized Smart Grids with Renewable Energy Sources

**09:30-11:30**

**Parallel Session C-I: Communications  
Chair:**

ID	Authors	Title
46	<b>Ir. Jasbinder Singh</b> , Ts. Gs. Dr. Karthigesu	Safety Critical Analysis for Communication Between Onboard Train System and Wayside Control Centre in Urban Rail Environment for GNSS-Based Train Localisation System
412	<b>Pranav Golla</b> , Sd. Sairam, D. Sriram Kumar	Design and Optimization of a Double Square FSS for Sub 6G Applications using ML Algorithms
585	<b>Takuro Urushibata</b> , Genki Hosokawa, Yasuyuki Yanagi, Azril Haniz, Hirokazu Sawada, Hikaru Kawasaki, Kazuo Ibuka, Takeshi Matsumura, Fumihide Kojima, Tadahide Kunitachi	Experimental Evaluation of Wireless Communication at 28 GHz Band in a Factory Environment
600	<b>Nur Arzilawati Md Yunus</b> , Zurina Mohd Hanapi, Shafinah Kamarudin	6G on the Horizon: Technologies, Requirements, Trends, and Potential Techniques
607	<b>Alinafe Kaliwo</b> , Clement Nyirenda	Next-Generation 6G Networks: Deploying Cybertwin Technology for Enhanced Healthcare Solutions
640	<b>Kholekile Mtshiza</b> , Elijah Olusayo Olurotimi, Nelendarm Pillay	Free-Space Optical (FSO) Link for Different Transmission Schemes Influenced By Atmospheric Turbulence with Pointing Errors
787	<b>Elbasher Elmahdi</b>	Effect of Link Breaks on Performance of MANETs
947	<b>Kevin Valdez</b> , Martha Torres, Joel Quintana, Virgilio Gonzalez	Integration of 5G and Time Sensitive Networks in Fossil Energy Generation Systems: A Case of Study
986	<b>Mohamed Gaballah</b> , Maysam Abbod, Qutaiba Razouqi, Meshaal Algharabally	Developed Deep Reinforcement Learning Model Based LSTM for Channel Approximation in PD-NOMA
1103	<b>Waleed Algriree</b> , Bayan Mahdi Sabbar, Zeyad tahayaseen, Nasri Bin Sulaiman, Mokhalad Alghrairi, Saad Mutashar, Mohammed Abbas	A New Design Algorithm to reduce the complexity for different 5G waveforms

**11:30-11:45**

**COFFEE BREAK**

**11:45-13:45**

**Parallel Session A-II: Artificial Intelligence - II  
Chair:**

ID	Authors	Title
374	<b>Neethu Shenoy</b> , Alex V Mbazziira	An Extended Review: LLM Prompt Engineering in Cyber Defense
390	M Jaya Ram, <b>Yogesh Bhutkar</b> , Indhra Lochan Kumar Bjjanapalli, Giri Yeshwanth, Burri Yashwanth Reddy	Beyond Automation: AI-Driven Project Management with OpenAI and Prompt Engineering
403	<b>Marwan Abdul Hameed Ashour</b> , Iman A.H. Al-Dahhan	Forecasting Net migration rate using Support Vector Machine
455	Franciskus Antonius Alijoyo, B. Prabha, Mohd Aarif, Gulnaz Fatma, Vuda Sreenivasa Rao, <b>Ponni Valavan M</b>	Blockchain-Based Secure Data Sharing Algorithms for Cognitive Decision Management
479	<b>Hanin Alshalan</b> , Banafsheh Rekabdar	GAN-based Defense Mechanism against Word-level Attacks for Arabic Transformer-based Model
548	Khalil Ahmad, <b>Yachna Gharde</b> , Mahendra Morenaveen Pandey	Exploring the Impact of Digital Marketing on Hospitality and Tourism: A Bibliometric Review of Current Trends

557	<b>Franklin PARRALES-BRavo</b> , Victor Gómez Rodríguez, Lorenzo Cevallos-Torres	Multidimensional Bayesian Classifier for Predicting the Multi-stage Patient's Response to the BoNT-A Treatment for Migraine
940	<b>Mohamed Mounir Moussa</b> , Lubna Alazzawi	Leveraging Vehicle Predictive Analytics through Adaptive Learning and Cloud-Aided Sensor Fusion
1050	<b>Ga Eun Park</b> , Hae Won Lee, Bo Min Kim, Ju Yeon Oh, Seong Geon Bae	Enhancing Stereopsis through Depth-based Visual Effects in Style Transfer of generative Cartoon

11:45-13:45

Parallel Session B-II: Energy - II

Chair:

ID	Authors	Title
415	<b>Victor Ogbonna</b> , Olawale Popoola, Patricia Popoola	Mechanical, Dielectric, and Thermal Stability Characterization of Spark Plasma Sintered TiO <sub>2</sub> /PI Nanocomposites for Energy-Power Application
431	<b>Zoya Gelmanova</b> , Alibek Batyrbek, Galina Sivyakova, Mohamad Syazli Fathi	Feasibility by Modeling A Photoelectric System in A Solar Power Substation in Saran, Karaganda
447	<b>Dario Pelosi</b> , Eleonora Ciotti, Mattia Tritoni, Linda Barelli	Genetic algorithm optimization of fuel cell electric bus fleet operation for carbon-neutral districts
463	<b>Mehrdad Hojjat</b> , Abolfazl Ghasemi	A Chance-Constrained Programming (CCP) Approach to Solve the Energy Management Problem in Microgrids Considering Uncertainties of Renewable Energy Resources
465	<b>Siwen Chen</b> , Ganwen Yu	Design a rectifier with high sensitivity and high efficiency for RF energy harvesting applications: fundamental, development, and future-A review
490	Habiba Ahmed, Eva Barbulescu, <b>Mohamad Nassereddine</b>	Advanced Electrical Network Stability Using Hybrid PV & EV Systems in Smart Cities
519	<b>Haleimah Almurshidi</b> , Sameh Alshibani, Sujan Piya	Identification and Analysis of Sustainability Criteria to Compare Oil Storage Techniques Using Analytic Hierarchy Process
537	<b>Mohamad Nassereddine</b> , Habiba Ahmed, Eva Barbulescu, Jamal Rizk, Ali Hellany, Mahmood Nagrial	Direct Lightning Protection for PV Systems; A Novel Approach to Eliminate Shading Effects
617	Eva Barbulescu, <b>Mohamad Nassereddine</b> , Haile Rajamani	Bifacial PV Panels for Green Roofs in Dusty Regions
711	Damián Federico Campos, <b>Andrés Elias Ajras</b> , Marcelo Tulio Piován	Reliability-Based Design Optimization for OPGW Cable Damper Systems

11:45-13:45

Parallel Session C - II: Computer Vision

Chair:

ID	Authors	Title
716	<b>Kushal K. Ponugoti</b>	Formal Verification of Early and Strict Serializing Instruction Enforcement
1052	<b>Ahmed Jamal Ibrahim</b> , Sandor R. Repas	DDOS Attack mitigation based on FPGA implementation
709	<b>Tyler Ward</b>	Gender-based Detection and Tracking of Child Pedestrians using Machine Learning
935	<b>Hossain Md. Hasibul Haque</b> , Md. Sayeed Arefin Apon, Dhrubo Rashid Chowdhury, Shahriar Islam Intiaz, Nishat Tasnim Mahi, Dewan Ziaul Karim	Identification of Brain Tumor in MRI Scans using Custom Deep Convolutional Neural Network
937	<b>Khawla Hussein Ali</b>	Stain the Phony Brains: Generating Synthetic Different Medical Images Modalities Using Latent Diffusion Models
960	Aabrar Islam, Ayen Aziza Haque, Najifa Tasnim, <b>Simin Waliza Anantee</b> , Dewan Ziaul Karim	Glaucoma Scanner: Harnessing Deep CNN for Early Glaucoma Detection
316	<b>Konrad Koniarski</b> , Andrzej Myslinski	Dense Image Registration using Global Optical Flow
528	<b>Eugene P.W. Ang</b> , Shan Lin, Alex C. Kot	Aligned Divergent Pathways for Omni-Domain Generalized Person Re-identification
621	<b>Maria Sabrina Ma</b> , Omid Kavehei	A Navigation System based on Event Camera for People Living with Blindness and Vision Impairment

13:45-14:30

LUNCH

14:30-16:30

Parallel Session A-III: Big Data &amp; Data Science

Chair:

ID	Authors	Title
280	Shiyue Li, Shiyue Li	Optimising Custom Models for Emulating Human Speech Synthesis in Tonal Languages
452	Tavva Prudhvith, Chakrabarty Swatik, Selvakumar Prakash	Enhancing Retrieval Augmented Generation Systems with Knowledge Graphs
474	Tannya Sharma, Ishika Shruti, Bidisha Borkakaty	A Comparative Assessment of the Temporal Fusion Transformer Model and Cloud-Based Forecasting Solutions in CPG Industry
508	Vipul Sharma, Ish Chaudhary	Custom Cost Function & Classification-Based Model Selection for Optimised Demand Forecasting
576	Diogo Viana, Rita Teixeira, José Baptista, Tiago Pinto	Synthetic Data Generation Models for Time Series: A Literature Review
581	Raimundo Sanchez, Pascal Egli, Manuela Besomi, Ricardo Truffello,	Assessing the impact of Digital Elevation Model resolution on Elevation Gain Estimations in Trail Running
689	Harichandana Gonuguntla, Kurra Meghana, Thode Sai Prajwal, Koundinya N V S S, Kolli Nethre Sai, Chirag Jain	Evaluating Modern Information Extraction Techniques for Complex Document Structures
1046	Anh V. Nguyen, Stephanos Mavromoustakos	Improving the Performance of Data Warehousing with Column-oriented Databases
1067	Ekin Can Erkus, Ahmet Bursalı	A Comparative Analysis of the Lossless Data Compression Methods for Unsparsed Tabular Data
442	Israt Binteh Habib, Tanjim Mahmud, Afsana Tamishra, Sanjida Amrin, Afia Zahin, Muhammed Nazmul Arefin, Mohammad Shahadat Hossain, Karl Andersson	A Hybrid Supervised-Unsupervised Learning Framework for Biomedical Data Analysis and Gene Signature Identification

14:30-16:30

Parallel Session B-III: Energy - III

Chair:

ID	Authors	Title
29	Husam Arnoos, Salah Kamel, Francisco Jurado, Salam J. Yaqoob	Optimizing Photovoltaic Systems in Building Applications: Environmental and Economic Benefits with Helioscope and HOMER Pro Analysis
61	Sana Abu Rumman, Rana Elnaklah	Investigating the Energy Generation Potential of Piezoelectric Flooring in Educational Buildings
109	Burtjin Khaliunaa	The possibility of using heat storage at the co-generation thermal power plants
731	Jeanne Baptiste Niyigena, Wang Yongli, Rachel Abayisenga, Vedaste Ndayishimiye	Relationship of Energy Use, CO2 Emissions and Economic growth in Rwanda
739	Wing Yee Ng, Sanjith Christopher, Saiful Bari	The potential of exhaust waste heat recovery (WHR) from a diesel-gen-set via Rankine Cycle
827	Abdulrhman Alshaabani	Developing A Design of Single Axis Sun-Sensor Solar Tracking System
838	Fateh Moulahcene, Djalal Mahsoudi, Ammar Merazga, Hichem Laib, Khalef Rostom	Modeling of 100W-18V Solar Panel using MATLAB/Simulink and Proteus Simulation
949	Bilal Chabane, Dragan Komljenovic, Georges Abdul-Nour	Optimizing Performance of Equipment Fleets in Dynamic Environments: A Straightforward Approach to Detecting Shifts in Component Operational States
105	Sara Noorollah, Ali Mashhadi	Neutralizing Effects of a Disturbance on Volatge in an Microgrid

14:30-16:30

## Parallel Session C - III: Cybersecurity

Chair:

ID	Authors	Title
311	<b>Christopher Patrick Autry</b> , Wayne Henderson, Mykhailo Magal, Andrew William Roscoe	dOISP: Rapidly Deployable Quantum-Resistant, Fully Decentralized Authentication and Encryption for Beyond Zero-Trust Networking in Disparate Complex Networks
380	Eric Blancaflor, Sarah S. Diaz, Chelsea L. Gaddi, Rianne Lorraine G. Sarmiento, <b>Anton Gabriel T. Sison</b>	Clickbait Chronicles: Unmasking the Student Exploitation Scheme through Social Engineering Analysis
381	<b>Eric Blancaflor</b> , Claire Francheska M. Gil, Rosselle Mae C. Mercado, Alyssa Mae M. Pepito, Keziah Antonette C. Soleño	The Prominence of Cyberbullying: The Urgency to Improve Defense against Cyberbullying in the Philippines
382	<b>Eric Blancaflor</b> , Mark Brandon Calida, Matthew Chan, Nicole Laysico, Keziah Antonette Soleño	Impact Analysis and Attack Simulation on Quishing (a QC Code Phishing) using QRJacker
506	<b>Furkan Çolhak</b> , Mert İlhan Ecevit, Hasan Dağ, Reiner Creutzburg	SecureReg: Combining NLP and MLP for Enhanced Detection of Malicious Domain Name Registrations
509	<b>Eman Talib Algareeb</b> , Valeriy Osipovich Osipyan	Mathematical Model Of Asymmetric Encryption Based On Linear Diophantine Equations
542	<b>D. Shankar</b> , S. Sudha, Kaliappan P	Cyber security Compliance Test for Smart Electricity Meters in the Smart Distribution System
552	<b>Patrick Wake</b> , Sue Black, Jonathan Young	Optimising IT security research via a low cost, instantly available, cloud based cyber range
715	<b>Simon Niyonsaba</b> , Karim Konaté, Moussa Moindze Soidridine	Deep Learning based Intrusion Detection for Cybersecurity in Unmanned Aerial Vehicles Network
763	Eric Blancaflor, <b>John Darryl A. Doydoy</b> , Justine Amiel T. Jonson, James Andrei T. Pasco, Jerome B. Tamargo	Mobile Device Security Assessment: Penetration Testing of a Smartphone Running Android Using PhoneSploit in Kali Linux
1015	<b>Truong-Giang Nguyen</b> , Thi-Nhu Nguyen, Dang-Khoa Vu, Ngoc-Linh Bui, Viet-Hung Nguyen, Minh-Tri Luu, Anh-Nhat Nguyen, Tung-Son Ngo	Detecting Fileless Malware on Windows with ATT&CK: A Practical Approach

16:30-16:45

COFFEE BREAK

16:45-18:45

## Parallel Session A-IV: Mixed - I

Chair:

ID	Authors	Title
522	Maulana Amirul Adha, Marsofiyati, <b>Titis Fatarina Mahfirah</b> , Nova Syafira Ariyanti, Nofriska Krissanya, Nur Athirah Sumardi, Ayatulloh Michael Musyaffi	Understanding Online Cheating Behavior among Education Students
527	Ade Irma Susanty, Sherly Artadita, Tse-Kian Neo, Mai Neo, <b>Mahir Pradana</b> , Angela Amphawan	The nexus of cooperative learning and problem-based learning: A meta-analysis
532	<b>Siheon Joo</b> , Haeun Jung, Kyoungmin Lee, Seonggeon Bae	CPH White-Box Cartoon GAN: A Patch-Based Style-Swap Approach
566	Manzoor Ahmed Hashmani, <b>Tarwan Kumar Khatri</b> , Tieng Wei Koh, Lukman Ab. Rahim, Hasmi Taib, Nasir Abdullah	A Review of Mooring Monitoring Methods for Anomalies Detection in Thin Mooring Lines: Challenges and Future Realms
710	Fardin Ahsan Sakib, <b>Saadat Hasan Khan</b> , A. H. M. Rezaul Karim	Extending the Frontier of ChatGPT: Code Generation and Debugging
230	Ion Barosan, <b>Thijs Koenraadt</b> , Huub Van De Wetering	Proteus: A Framework for Enhancing Model-Based Systems Engineering Through 3D Visualization of System Models
243	<b>Yusuke Mori</b> , Zihe Li, Gento Mogi	Refinery Transition Process for a Carbon-Neutral Society
939	<b>Ashutosh Shivakumar</b> , Yong Pei, Paul J. Hershberger, Angie Castle, Josephine F. Wilson, Timothy N. Crawford, Dean Bricker	ReadMI - A Mobile-Cloud Computing based Assessment Tool to Scale Up Motivational Interviewing Training
76	<b>Divyanshi Yadav</b> , Hitesh Para, Komal Sandhu, Prakash Selvakumar	Enhancing Response Generation Systems: Knowledge Graph & Generative AI Synergy for Business Communication and Strategic Decision Making
164	<b>Nirdosh Rawal</b> , Prudhvith Tavva, Prakash Selvakumar	Enhancing Large Language Model Performance with Reinforcement Learning from Human Feedback: A Comprehensive Study on Q&A, Summarization, and Classification

16:45-18:45

## Parallel Session B-IV: Mixed - II

Chair:

ID	Authors	Title
113	<b>Jinfeng Li</b>	80 GHz Phase Shifter in Liquid Crystal Compact Coplanar Transmission Line with Curved Bends
259	<b>Huber Nieto-Chaupis</b>	Recession From Declination of Economic Activities Dictated by Conditional Probabilities
383	<b>Eric Blancaflor</b> , Alex Chester Balmocena	BuyLow: A Platform Design for Online Goods and Services Trading Platform in the Philippines
457	<b>Sanad Aburass</b>	Gaussian-Modulated Sine Wave
464	<b>Hossein Alimohammadi</b> , Kristina Vassiljeva, S. Hassan Hosseinnia, Peeter Ellervee, Eduard Petlenkov	Exploring the Real-World Challenges and Efficacy of Internal Coupling in Metastructures: An Experimental Perspective
206	<b>Gawsan Raveenthiran</b> , Kaanushan Sivarajah, Akash Ahamed Mohammed Riyal, Vethurja Kugathasan, Sanjeevi Chandrasiri, Karthiga Rajendran	Revolutionize Your Learning Experience with EQU ACCESS
337	Pritish Bhavne, Rushikesh Chopade, <b>Shrikant Pawar</b> , Aditya Stanam	OpenAI's GPT-3/ChatGPT: Suggests & Corrects
720	<b>Huber Nieto-Chaupis</b>	Theory of Diffusive Dynamics of Bacteria Population From Probabilistic Interactions
303	<b>Chang Suk Kim</b>	Cognition in Human Computer Interaction: Toward Measures of Usability
1012	<b>Hera Neyaz</b> , Muhammad Inamullah, M.M. Sufyan Beg	Machine Learning Based Indoor Positioning System using Wi-Fi Fingerprinting Dataset
186	Kalim Ullah, <b>Hisham Alghamdi</b> , Ghulam Hafeez, Imran Khan, Safer Ullah, Sadia Murawwat	A swarm intelligence based approach for multi-objective optimization considering renewable energy in smart grid
453	<b>Jeffer Masika Wanjala</b> , Hendrick Musa Langa, Tom Walingo	Cost Minimization in a Smart Grid using Particle Swarm Optimization Algorithm

16:45-18:45

## Parallel Session C - IV: Mixed - III

Chair:

ID	Authors	Title
476	<b>Motlatsi Cletus Lehloka</b>	An Application of Interpolation Search Algorithm to Curb the Impact of Outliers on the Dual-Axis Solar Tracking System
914	<b>John Olorunfemi Abe</b> , Olawale Muhammed Popoola, Abimbola Patricia Popoola	Study of the Influence of Refractory Nitride Additives on Hydrogen Storage Properties of Ti6Al4V-Based Materials Produced by Spark Plasma Sintering
982	Lihui Pang, <b>Yilong Tang</b> , Jinpeng Tian, Wenwei Zhang	Evaluation of Blind Signal Separation Objective Function Constructed using Nonlinear Functions
495	Habiba Ahmed, <b>Mohamad Nassereddine</b>	Empowering Energy Efficiency: Fuzzy Logic Weather Prediction in Smart Energy Management
500	<b>Hanane Sefraoui</b> , Shuhei Amakawa, Abdechafik Derkaoui, Abdelhak Ziyat	Novel CMOS Circuit for Fuzzification: Implementing a Sigmoid Activation Function in Neural Networks
260	<b>Huber Nieto-Chaupis</b>	Econophysics Through Quantum Mechanics: Inflation as a Perturbation of Consumer Price Paths
18	<b>Zakaria Bencherki</b> , Khaled Benfriha, Vincent Meyrueis, Laurent Cachot, Philippe Soares	IEC 61499: A key enabler for distributed automation in industry 4.0
329	Vasiliy M. Babikov, Vadim V. Makeev, Jr., <b>Alexey Yu. Zalozhnev</b>	Information Processing, Simulation, and Math Modeling of Human Operators Actions for Vessel Control System Learning and Vessel Control System Interface Design
975	<b>Kaoru Mitsuhashi</b>	Investigation of Training Effects and Entertainment by Job Motion Training Tidy-up Games
564	Danni Feng, Shiwei Ren, <b>Guiyu Wang</b> , Xiangnan Li	A Novel Synthetic L-Shaped Array Design for DOA Estimation
685	<b>Ju-Yeon Oh</b> , Ga-Eun Park, Su-Bin Cho, Seong-Geon Bae	A Study on Performance Improvement of CartoonGAN through Reflective Object Removal for Comparative Analysis of Content Loss



July 27<sup>th</sup>, 2024

09:00-11:00

Parallel Session A-V: Machine Learning

Chair:

ID	Authors	Title
249	Sara Amjad, M. Azhar Aziz, M. M. Sufyan Beg	Precision Oncology: Deciphering Drug Sensitivity Through Multi-Omics Clustering and Machine Learning in Cancer Cell Lines
497	Belkacem Imad	Identifying Type 1 Diabetes from daily Continuous Glucose Monitoring profiles using Machine Learning
569	Goutam Mylavarapu, Ganesh Mani Kanta Chunduru	A Machine Learning Approach to Identify Significant Factors Influencing the Stock Market During Earnings Season
596	Huber Nieto-Chaupis	Machine Learning Based in Quantum Mechanics and Theorem of Bayes
639	Biswaraj Baral, Taposh Dutta Roy	Enhancing Gastrointestinal Care: AI-Enabled Multiclass Classification of Endoscopic Lesions using Feature Reduction
857	Md. Mijanur Rahman, Rakibul Islam, Fahim Faisal Sifat, Safaeat Molla	Hybrid Recommendation Systems using Adaptive Clustering to address Cold start problems
867	Marco San Biagio, Valerio Scarfone, Ernesto La Mattina, Vito Morreale	THINT: a Deep Learning Framework for Terrorist Threats Identification in Social Media
932	Sultana Rokeya Naher, Sayfun Sultana, Tanjim Mahmud, Mohammad Tarek Aziz, Mohammad Shahadat Hossain, Karl Andersson	Exploring Deep Learning for Chittagonian Slang Detection in Social Media Texts
933	Tahmina Akter, Tanjim Mahmud, Utpol Kanti Das, Prosenjit Chakraborty, Nahed Sharmen, Mohammad Shahadat Hossain, Karl Andersson	Heartbeat Sound Analysis: Integrating Deep Learning Models for Classification
936	S.M Toufique, Sadiq Uddin Bhuiyan, Ahmed Lateef, Arman Zaman, Jubaer Bin Islam, Dewan Ziaul Karim	Implementing Machine Learning Techniques To Forecast Floods In Bangladesh

09:00-11:00

Parallel Session B-V: Control and Automation

Chair:

ID	Authors	Title
236	Amin Khoshkenar, Hala Nassereddine	How the convergence of Information Technology and Operational Technology enables Digital Twin in construction industry: A systematic review
317	Anai Camacho Luna, Abdelhamid Rabhi, Aldo J. Muñoz Vázquez	Bounded Smooth Functions based Control to Stabilize the PVTOL
404	Joewell T. Mwanza, John T. Agee, Ernest Bhero	Finite-Time Fault-Tolerant Time-Varying Formation Control for Multiple Quadcopter UAVs with Communication Link Faults in Wildfire Monitoring
511	Huseyin Altinkaya, Ahmed Khamees, Elaheh Yaghoubi, Elnaz Yaghoubi	Control of Heat Exchanger Liquid Temperature Using PID Control and first Order Sliding Mode Control System
950	Liang Zhang, Shiyi Zhang, Xiaoming Liu, Zhi Chen	Sustainable Traffic Management: A Framework Utilizing Energy Consumption Patterns
992	Alla Nesenchuk	Superimposed Root Locus Portraits for Parametric Synthesis of Robust Control Systems
976	Paul Daza Barzola, Efrén Herrera Baños, Luis Herrera Baños, Washington Medina Moreira, Efrén Herrera Muentes	Review of Genetic Algorithms Applied to Agriculture
376	Abhiram Karukayil, Fernando Auat Cheein	City road condition evaluation through artificial vision and LiDAR information fusion when driving: a machine learning approach
377	Youssef Okab, Fernando Auat Cheein	Algebraic-based velocity profiling and path tracking of a legged robot: a single leg case study
468	Nguyen Duc-Nam, Nguyen Dinh-Trung, Nguyen Duc-Anh, Hoang Minh-Tuan, Nguyen Duc-Binh, Nguyen Thai-Hiep	Design of remote swerve-drive mechanism-based mobile platform for transportation applications



09:00-11:00

## Parallel Session C-V: El. Vehicles &amp; Emb. Systems

Chair:

ID	Authors	Title
254	<b>Julio Ernesto Quispe Rojas</b> , Julio Quispe Tuesta	The Work on the Application of Electrical Machines and the Project Method in a Public University of Peru
917	<b>Nadiya Philip</b> , N. Pradeep, Prakash C. Ghosh, K. S. Reddy	Influence of heat transfer fluid on the thermodynamic performance of PCM-based thermal management system in fuel cell vehicle
48	Prajeesha, Shreepad Udgire, Siddharth Vivek Kamath, <b>Vishal Singh S</b> , Srinidhi, Anuradha M	A NOVEL METHOD TO PREDICT THE POWER DEMAND OF CONSUMERS WITH EV USING ENCODER DECODER LSTM
691	<b>Cristian Giovanni Colombo</b> , Michela Longo, Leonardo Nocera, Ryosuke Ota, Dario Zaninelli	Sustainable Smart Road: a Unified Cost Estimation Model for Renewable-Powered Smart Roads
958	<b>Arya Ghifari Bachtiar</b> , Muhammad Ariel Rabbani, Rio Sukandar Putra, Dicky Hida Syahchari	Market Adoption of Electric Vehicles in Indonesia: The Role of Government Incentives and Charging Infrastructure
1082	<b>Suneeta</b>	SIMULATION AND ANALYSIS OF BIDIRECTIONAL CHARGER IN ELECTRIC VEHICLES
238	<b>Akio Takada</b> , Tadashi Tsubone	Noise-induced simultaneous firing in two leaky integrate-and-fire circuits with dead zones
244	Oleg Petrosyan, Arsen Hekimyan, <b>Gurgen Grigoryan</b> , Tigran Grigoryan, Vladimir Abramyan	Driver's Output Calibration Method with DAC Insertion
248	<b>Albert Barnabas</b> , Ferdianto Prajnowira, Vanessa Della, Desi Maya Kristin	Critical Factors Influencing Impulsive Buying in Live Streaming E-Commerce Environments: A Systematic Literature Review
999	<b>Dien Rahmawati</b> , Hesty Susanti, Husneni Mukhtar, Faisal Budiman, Wahmisari Priharti, Fajar Sadika, Willy Anugrah Cahyadi, Desy Indra Yani	IoT-based Growth Monitoring System for Stunting Detection in Children aged 2-5 Years

11:00-11:15

COFFEE BREAK

11:15-13:15

## Parallel Session A-VI: Deep Learning

Chair:

ID	Authors	Title
101	<b>Ming Ma</b> , Likun Xia, Hyunseok Seo	DViTPolyp: Small Polyp Detection in Colonoscopy Videos based on Deep Vision Transformer
199	<b>Ishika Shruti</b> , Amol Kumar, Arjun Seth, Rajeev Ranjan N	Responsible Generative AI: A Comprehensive Study to Explain LLMs
258	<b>Odai Alasmar</b> , Martin Neumayer, Dominikus Bucker	Data Augmentation Technique for Dealing with Multi-Resolution Issues in Segmentation of Photovoltaic Systems in Aerial Imagery
373	<b>Patience Chew Yee Cheah</b> , Yue Yang, Boon Giin Lee	Reinforcement Learning for Optimizing Conditional Tabular Generative Adversarial Networks Hyperparameters in Financial Fraud Detection
438	<b>Bandara T.W.M.I.P.S</b> , Deshan M.A.D., Prasanth.P., Nadeera M.S., Jenny Krishara, Mihiri Samaraweera	A Comprehensive Mobile Platform for Fostering Communication, Literacy, Numeracy, and Emotion Understanding in Children with ASD
558	Uurtsaikh Luvsansambuu, <b>Tengis Tserendondog</b> , Munkbayar Bat-Erdene, Batmunkh Amar	A deep learning model for classifying the thoughts of multiple individuals based on visual event
843	<b>Ailin Song</b> , Huifeng Yin, Shuai Zhong, Mingkun Xu	Efficient Semantic Relationship and Representation Reconstruction Based on Knowledge Graph
923	<b>Randa Aboudeif</b> , Tasneem A. Awaad, Mohamed Abdelsalam, Yehea Ismail	UVM Based Verification Framework for Deep Learning Hardware Accelerator: Case Study
448	Kadhim Hayawi, <b>Sakib Shahriar</b> , Hakim Hacid	On Digital Art Generation Using Generative Adversarial Networks
1014	<b>Abeer Ilyas</b> , <b>Imama Rahmani</b> , <b>Sukaina Imran</b> , Tufail Sajjad Shah Hashmi, Muhammad Nadeem Yousaf	Deep Learning Application for Vehicle Detection through Surveillance Drones

11:15-13:15

## Parallel Session B-VI: AI &amp; Cloud Comp.

Chair:

ID	Authors	Title
59	<b>Milad Baghalzadeh</b> , Melissa Chan, Robert C. Moehler, Yihai Fang, Amer A. Hijazi, Hamed Aboutorab	Named Entity Recognition in Construction Supply Chain Risk Management using Transformer-Based Models and Genetic Algorithm-Driven Hyper-parameter Tuning
71	Rawaa Jawad, <b>Raheel Jawad</b>	Design and Implementation of a Stick for Blind humans Using Artificial Intelligence System and FPGA
152	<b>Pragya Arora</b> , Lohith Desu, Ashish Kumar, Ravi Kumar S, Adriana Marinescu	Enhancing Profitability through AI-Optimized Accounts Receivable: Reducing Cash Conversion Cycles
207	Megha Sinha, Sreekanth Menon, <b>Ram Sagar</b>	LLMOps: Definitions, Framework and Best Practices
308	<b>Sukanya Bag</b> , Ayushman Gupta, Rajat Kaushik, Chirag Jain	RAG Beyond Text: Enhancing Image Retrieval in RAG Systems
321	<b>Kyoungmin Lee</b> , Siheon Joo, Haeun Jung, Seonggeon Bae	A Study on Enhanced Generation Algorithm through Structure-Preserving Style Transfer with SLIC
11	<b>Nomsa L. Khumalo</b> , Topside E. Mathonsi, Sunday O. Ojo	Implementation of an Enhanced Data Integrity Verification Model in Cloud Computing
53	<b>Basil Rattanto</b> , Drajad Wiryawan, Muhammad Shabir Shaharudin, Joni Suhartono, Adele Bernadet Lingkan Mailangkay, Stefanus Rumangkit	Cloud Technology Impact on Human Behavior Based on Cognitive Theory
414	Ayatulloh Michael Musyaffi, Maulana Amirul Adha, Hera Khairunnisa, Gentiga Muhammad Zairin, <b>Nazila Alvi Ramadhani</b> , Nazira Yuniar Asri Yanti	Exploring Enterprise Resource Planning Gamification and Student Performance: A UTAUT Perspective
436	Ayatulloh Michael Musyaffi, Razana Juhaida Johari, Christian Wiradendi Wolor, Diah Armeliza, Muhammad Jeasen Allan, <b>Hafiz Surya Chandra Izwandi</b>	Analyzing QR Code Payment Adoption: Trends, Theoretical Frameworks, and Key Constructs
851	<b>Ilunga Nday Daniel</b> , Azubuike Ezenwoke, Emmanuel Adetiba	A Comparative Performance Analysis of Task Scheduling Algorithms in Federated Clouds

11:15-13:15

## Parallel Session C - VI: Cybersecurity &amp; Information Sec.

Chair:

ID	Authors	Title
1039	<b>Martha Torres</b> , Sai Mounika Errapotu, Virgilio Gonzalez	Cyberattack Risk Classification for Detecting Intrusions through Neuro-Fuzzy Inference based Generative Adversarial Networks
1077	<b>Abdelrahman Altigani</b> , Muhammad Rukunuddin Ghalib, Huwaida T. Elshoush, Muawia A. Elsadig, Nashat Alrefai, Shiraz Naserelden	The Advanced Encryption Standard with a Dynamic S-Box Using the RC4 Key Scheduler
6	<b>Vatiswa Stuma</b> , Topside E. Mathonsi	Security Algorithm to Prevent Denial of Service Attacks in the Internet of Things Devices
116	<b>Mouhamadou Lamine Diakhame</b> , Chérif Diallo, Mohamed Mejri	MCM-Llama: A Fine-Tuned Large Language Model for Real-Time Threat Detection through Security Event Correlation
173	Hera Khairunnisa, Gentiga Muhammad Zairin, Prabowo Budianto, Nazila Alvi Ramadhani, <b>Mita Septiani</b> , Ayatulloh Michael Musyaffi	BITPAYs: Leveraging Bitcoin for Digital Payments to Fuel Economic Growth in Indonesia's Society 5.0 Era
1061	Eric Blancaflor, Justine Amiel T. Jonson, Yvan Kent T. Rodriguez, <b>Gabriel N. Tomagos</b> , Grace Lorraine Intal, Albert Villaluz	Tech in Social Control: Analyzing the Impact of Technology on Monitoring and Shaping Social Behavior of Filipinos
100	<b>Jose Villanueva</b> , Jorge Sebastian, Jymmy Dextre	Web portal validation model by digital signature and ISO 27002 to reduce private credentials theft for phishing attacks to financial sector customers
325	<b>Bharath S</b> , Nishamth Phani, Shinu Abhi, Rashmi Agarwal	AccessFlex: Flexible Attribute-Based Access Control Scheme for Sharing Access Privileges in Cloud Storage
860	Tomohiro Fujii, Shinsuke Yamamoto, Toshiki Yamasaki, <b>Masao Hirokawa</b>	On Security Level of Some Secret Keys of Concealing-Restoring System Aimed to BCI/BMI Security
75	<b>Kevina Syahla Aqila</b> , Drajad Wiryawan, Meiryani	Personal Data Protection Factors on the Strengthening of IT Governance Framework Implementation

13:15-14:00

LUNCH

14:00-16:00

Parallel Session A-VII: DL &amp; ML &amp; IoT

Chair:

ID	Authors	Title
1093	<b>Abdelhak Mehadjbia</b> , Fouad Slaoui-Hasnaoui	Wind Turbine surface defects detection Based-on NasNetMobile architecture
3	<b>Enock Mudau</b> , Topside E. Mathonsi, Tshimangadzo Tshilongamulenzhe	A Deep Learning Algorithm to Minimize Cyber-Security Attacks for Small Enterprises
21	<b>Jens Grambau</b>	Evaluation methodology and concept implementation of enhanced social media data analytics for predictive models
272	<b>Deepali Vajjinath Sawane</b> , Sanjay Y. Azade, Qureshi Imran M Hussain, Shazia Shaikh, Ashwini Paresh Thopte, Sangeeta R. Yadav, Vaishali A. Chavan, Adiba S. Shaikh	Statistical Approach of Anaphoric Resolution for Computational Linguistics using Rule based System in Text Summarization
1055	<b>Sanad Aburass</b> , Maha Abu Rumman	Quantifying Overfitting: Introducing the Overfitting Index
560	<b>Bilsay Eliş, Eylül Çar, Nazlı Kasap</b> , Ali İhsan Sari, Atajan Rovshenov	Development of IoT-based Smart Home Automation System with Open-Sourced Components
623	<b>Alfred Barnard</b>	Digital Twin Frameworks: A Comparative Study of AAS, OPC UA, and AML
990	<b>Manuel Montaña Blacio</b> , Oscar Gómez Morales, Danny Del Pezo Tomalá, Luis Chuquimarca Jimenez, Washington Torres Guin	Efficient Forecasting of Residential Electrical Loads for Sustainable Demand Planning in Smart Grids
5	Zanele G. Nkosi, <b>Topside Mathonsi</b>	A Hybrid Security Algorithm for 5G-Internet of Things

14:00-16:00

Parallel Session B-VII: Neural Net. &amp; Modelling

Chair:

ID	Authors	Title
698	<b>Naleli Jubert Matjelo</b> , Sekhants'O Paul Lara, Moruti Kao, Limakatso Lepekola, Mampesi Thato Matobako, Madan Singh	Double-Beta Decay Parameter Estimation With Autoregressive And Differential Linear Regression
908	<b>Rostom Khalef</b> , Farouk Grine, Djameleddine Tourqui, Mohamed Taoufik Benhabiles, Fateh Moulahcene, Mohamed Lahdi Riabi	A Robust ADE-CN-RPIM Meshless Algorithm for Modeling Debye Dispersive Medium
957	<b>Ghaleb Saleh Ghaleb Al-Duhni</b> , Mudit Khasgiwala, John L. Volakis, Markondeyara Pulugurtha	Electrical Modeling of Near-Field Coupling Inside Integrated Heterogeneous Packages
47	<b>Mayank Sharma</b> , Pradeep Kumar, Ranjeet Singh Tomar	Vehicle Connectivity Analysis in Delay Tolerant Network for Different Antenna Ranges
267	<b>Shivangni Jat</b> , Ranjeet Singh Tomar, Santosh Narayankhedkar	The Current State of The Art in VANET Simulation Tool Assessment
354	<b>Taimur Bakhshi</b> , Bogdan Ghita, Abiodun Yusuf	Anomalous Host Identification in High-Cardinality Network Streams using Adaptive Reverse-Sketching
523	<b>Abdulai Abdul-Malik Dason</b> , Rose-Mary Owusua Mensah Gyening, Kate Takyi, Linda Amoako Banning, Eldad Antwi-Bekoe, Michael Eshun	Pneumonia Detection on Chest X-ray using Deep Convolutional Neural Networks
104	<b>Sara Noorollah</b> , Ali Mashhadi	Preserving the stability of microgrid with neural network
227	Rumana Islam, <b>Mohammed Tarique</b>	Spectrogram and Mel-spectrogram Based Dysphonic Voice Detection Using Convolutional Neural Network

14:00-16:00

## Parallel Session C - VII: Smart Grids &amp; Sig. Process.

Chair:

ID	Authors	Title
582	Mr Rabah Dali, Mr Slaoui Hasnaoui Fouad, Mr Saïd Djennoune	Detection of cyber-attacks on the SMART GRID using an unknown input observer
646	Yaxing Zhou, Jie Li, Hongwen Cheng, Hua Ouyang, Liangjie Li, Yining Li, Rongliang Xiao	Improve Edge AI for Continuous Inference on Electricity Streaming Data by Multi-Model Embeddings
653	Praveen Tiwari, Maria Kiran Kocherla, Shyra Nandanapu, Pinakeswar Mahanta, Gaurav Trivedi	IoT-enabled RC4-Stream-Cipher Powered Edge Data Encryption for Smart Home
139	Pietro Burrascano	Reduction of distortions in periodic signals by Wiener filtering
142	Pietro Burrascano	Breaking the excitation chirp to improve ultrasonic testing
612	Nhat Hoang Bach, Le Ha Vu, Duy Phong Pham, Manh Tuan Pham	Drones Detection And Classification Based On RF Signal Pre-Processing Combing With Convolution Neural Network
632	João Victor Marim Bando, Aline Elly Trembl	Contributions of Signal Processing Techniques to Detection and Diagnosis of Broken Bar Faults in Induction Motors: A Systematic Review
791	Zhi-Yong Wang, Hing Cheung So	Robust Matrix Completion via Novel M-estimator Functions
801	Zhi-Yong Wang, Hing Cheung So	unified structure to generate sparsity-inducing regularizers for enhanced low-rank matrix completion
920	Tetsuya Asakawa, Hiroki Shinoda, Kazuki Shimizu, Kei Nomura, Masaki Aono	Determination stenosis from coronary stretch images for CNN

16:00-16:15

COFFEE BREAK

16:15-18:15

## Parallel Session A-VIII: Embedded Sys. &amp; Bioinformatics

Chair:

ID	Authors	Title
577	Prieto-Fernández Natalia, Fernández-Blanco Sergio, Fernández-Blanco Álvaro, Benítez Andrades José Alberto, Carro-De-Lorenzo Francisco, Benavides Carmen	Comparison of Uncertainties in 2D LiDAR Mapping Depending on the Sensor Scanning Frequency
594	Huber Nieto-Chaupis	Quantized Energies from Finite Chain of Dirac-Delta Impulses at MIMO Systems
603	Leping Yu, Zhangyu Xu, Luis Herbozo Contreras, Omid Kavehei	An Additively Manufactured 3D Printed Electronics System for Personalized ear-EEG
927	Anuj Bhardwaj, Anand Mishra	Accurate Estimation of Circuit Process Variations using an On-chip Process Monitoring Sensor
979	Henri Josephson Raherimihaja, Shan Lu, Guodong Sun, Xiaoye Xu, Lijing Tang, Binyang He	A Combined Single-phase Boost Rectifier and DC-DC Buck Converter into Three-phase Open-Winding Machine Drive for EV Battery Charger
95	Hitoshi Aoki, Naotaka Kuroda, Atsushi Yamaguchi, Ken Nakahara	Parasitic Transistor with Hole Injection Current Modeling of AlGaIn/GaN Ridge HEMTs
492	Fabiola Angulo, David E. Giraldo, Sergio Rojas, Mario A. Bolanos, Gustavo Osorio, Nicols Astaiza, Juan David Mina-Casaran, Wilder Herrera	A Novel Nonlinear Averaged Model for a Flyback Converter with Peak Current Mode Control
1034	Ghaleb Saleh Ghaleb Al-Duhni, Mohammad Mohtasim Hamid Pial, Mudit Khasgiwala, John L. Volakis, Markondeyaraj Pulugurtha	Enhancing EMI Suppressor Designs through Multilayered Magnetic Cores in Toroidal Inductors
592	Huber Nieto-Chaupis	The Geometrical Bayes Theorem and Probabilistic Prediction of Next Global Pandemic
682	Rinku Basak	A Rapid, and Low-Cost Electrical Impedance Tomography Sensor System for Non-destructive Evaluation of Multiple Inhomogeneities

<b>ID</b>	<b>Authors</b>	<b>Title</b>
158	<b>Khulekani Sibiya</b> , Mlungisi Molefe, Bakhe Nleya	A SDN Multi-Controller and Blockchain Enabled Authentication Framework for Cloud Computing
279	<b>Mlungisi Molefe</b> , Khulekani Sibiya, Bakhe Nleya	A Futuristic Optical and Wireless Convergence Network Towards 6G and Beyond
322	<b>Mgobhozi Bhokinkosi</b> , Bakhe Nleya	An Optimised QPSO Based Algorithm for Power Management in Smart Grids
728	Bakhe Nleya, M Molefe, <b>Sibiyi Khulekani</b>	A Physical Layer Impairments Resources Allocation Aware Algorithm For Transparent OTNs
882	<b>Bhekinkosi Mgobhozi</b> , Bakhe Nleya	Performance Analysis of Differential Spatial Modulation over Rayleigh Fading Channel
1091	Nleya Bakhe, Molefe Mlungisi, <b>Khulekani Sibiyi</b> , Philani Khumalo	An Optimal Resource Assigning Algorithm For Unified/Joint Wireless-Optical Network
924	<b>Milka C.I Madahana</b> , John E. Ekoru, Prince Jonas, Otis Nyandoro	Compositional and geometric unifying approach for modeling the mechanical ventilator-Human respiratory system
83	<b>Pragati Rana</b> , BP Patil	Cyber Security Threats Detection and Protection in Iot Devices using S-Run-Based Deep Neural Network
7	<b>Topside Mathonsi</b>	An Enhanced Node Authentication Algorithm for Mobile Ad Hoc Networks