

THE 7TH INTERNATIONAL CONFERENCE ON ELECTRONIC DESIGN (ICED 2024)

2ND- 3RD SEPTEMBER 2024
MARRAKESH ROOM, BERTAM RESORT PENANG, MALAYSIA

Monday, 2nd September 2024

Start	End	Agenda
08:00	08:30	Participant Registrations
08:30	09:30	Keynote Session 1 Prof. Dr. R.S. Valarmathi "Transforming Health Through Wearable Sensors: A New Era in Quality of Life"
09:30	12:30	Parallel Presentation Sessions
13:00	16:30	GTEST 2024 Opening Ceremony (GTEST Opening Ceremony Schedule is on the next page)
Break for Day 1		

Tuesday, 3rd September 2024

Start	End	Agenda
08:00	09:00	Keynote Session 2 Assoc. Prof. Dr. Yessi Jusman "Classification of Cervical Precancerous Images using Image Processing Algorithm and Machine Learning"
09:00	13:00	Parallel Presentation Sessions
14:30	16:30	ICED 2024 Closing Ceremony
End		

**GLOBAL TRENDS IN ENGINEERING & SCIENCE TECHNOLOGY CONGRESS
(GTEST 2024)**

**2ND SEPTEMBER 2024
CASABLANCA HALL, BERTAM RESORT PENANG**

OPENING CEREMONY OF THE GLOBAL TRENDS IN ENGINEERING & SCIENCE TECHNOLOGY CONGRESS 2024	
13:00	<ul style="list-style-type: none">• Arrival of Guests
13:25	<ul style="list-style-type: none">• Arrival of YBhg. Prof. Dato' Ts. Dr. Zaliman Sauli, Vice Chancellor of UniMAP
13:30	<ul style="list-style-type: none">• Arrival of YB. Dato' Seri DiRaja Dr. Zambry Abd Kadir, Minister of Higher Education• Negaraku & WAWASANKU• Welcoming Speech by YBhg. Prof. Dato' Ts. Dr. Zaliman Sauli, Vice Chancellor of UniMAP• Opening Speech by YB. Dato' Seri DiRaja Dr. Zambry Abd Kadir, Minister of Higher Education• Symbolic Launch of the Global Trends In Engineering & Science Technology Congress 2024• Signing Ceremony of the Memorandum of Understanding (MoU) & Memorandum of Agreement (MoA)• Gift Giving Ceremony• Photography Session• Reception Accompanied by Performances
14:30	<ul style="list-style-type: none">• End of Ceremony
KEYNOTE SESSION	
15:15	<ul style="list-style-type: none">• Keynote speech by Mr. Shin Taguchi, Chief Technical Officer ASI Consulting Group• Gift Giving Ceremony
16:30	<ul style="list-style-type: none">• End of Ceremony

PHYSICAL AND ONLINE PRESENTATION SCHEDULE
THE 7TH INTERNATIONAL CONFERENCE ON ELECTRONIC DESIGN (ICED 2024)

PHYSICAL PRESENTATION

DATE		MONDAY (2/9/2024)		
VENUE		MARRAKESH ROOM		
TRACK		ELECTRONICS 1		
Session Chair		Assoc. Prof. Ir. Ts. Dr. Junita Mohd Nordin		
Start Time	End Time	Paper ID	Paper Title	Presenter Name
09:30	09:50	14	Design and Optimization of a Four-Port Transmitter Antenna for Human Activity Recognition	Muhammad Afifi Bin Mohd Shukri
09:50	10:10	9	Comparative Study for Ascon Lightweight Hardware Security Algorithms in FPGA	Muhammad Hafiz Bin Abu Hassan
10:10	10:30	19	Effects of Routing Protocol Parameters to Improve Network Performances in MANET	Subatera A/P Subramaniam
10:30	10:50	39	Comparative Analysis of Pipelining Architectures in FPGAs and CPUs	Ng Boon Khai
10:50	11:10	22	A Compact Frequency and Pattern Reconfigurable Antenna for IoT Close Range Devices	M.Ganesh

11:10 11:30

TEA BREAK

DATE		MONDAY (2/9/2024)		
VENUE		MARRAKESH ROOM		
TRACK		COMPUTATIONAL INTELLIGENCE 1		
Session Chair				
Start Time	End Time	Paper ID	Paper Title	Presenter Name
11:30	11:50	7	Verification of Battery Initial Conditions for Battery Sizing in Microgrids Using Two-Way ANOVA and MRFO	Yazhar Yatim
11:50	12:10	15	Convolutional Neural Network (CNN) for Image Forgery Detection	Maheswary A/P Gnanasegaran
12:10	12:30	24	Revolutionizing E-Waste Classification: The Role of AI and Image Processing Techniques in Sustainable Recycling	Dirvya Jeyamaran
GTEST 2024 Opening Ceremony				

ONLINE PRESENTATION

DATE		MONDAY (2/9/2024)		
VENUE		ONLINE GMEET LINK 1		
TRACK		ELECTRONICS		
Session Chair		Assoc. Prof. Ts. Dr.. Mohamed Nasrun Osman		
Start Time	End Time	Paper ID	Paper Title	Presenter Name
09:30	09:50	6	Miniaturized On-Chip Bandpass Filter Design Using Folded Resonators loaded by MIM Capacitor for System-on-Chip Integration	Anwer Sayed Abd El-Hameed
09:50	10:10	31	Development and Performance Evaluation of MXene based CO2 Sensor	Nurul Athirah binti Abu Hussein
10:10	10:30	37	Balancing Memory Hierarchy in FPGA Systems: A Study on Effective Replacement and Write Policies	Lee Chil Xuan
10:30	10:50	45	A Review on Partial Discharge Signal Detection in High Voltage Cable Insulation System Based on Rise Time	Mohd Haswandi Bin Hashim
10:50	11:10	55	IoT Based Fertilizer System for Crop Cultivation	Fong Pui Yee
11:10	11:30	4	Design An antenna Array for Radio Frequency Energy Harvesting System (RF-EH) to Feed Low Power Sensors	Somaya Kayed

TEA BREAK

DATE		MONDAY (2/9/2024)		
VENUE		ONLINE GMEET LINK 1		
TRACK		ELECTRONICS		
Session Chair				
Start Time	End Time	Paper ID	Paper Title	Presenter Name
11:30	11:50	57	Non-Invasive Detection of Urea Adulteration in Milk Using Optical Sensing Techniques	Norhafizah Burham
11:50	12:10	58	Optical Single-Sideband Subcarrier Multiplexing (SCM)/ Wavelength Division Multiplexing (WDM) in Free Space Optic (FSO) System	Junita Mohd Nordin
12:10	12:30	2	Performance Enhancement for Multi-Path Hybrid Spectrum Sensor using Adaptive Threshold Optimization in Cognitive Radio	Dirvya Jeyamaran
12:30	12:50	5	Performance Metrics Bounds and SNDR Maximization in Wideband Communication Systems	Hala Mohamed Abdel Kader;
12:50	01:10	12	IoT-Based Accident Signalling System for Hospitals	Ramez Elaskary; Ahmed
01:10	01:30	30	Human Presence Detector in Vehicle Based on Multi-sensor Detection	Ismahayati Adam

DATE	MONDAY (2/9/2024)			
VENUE	ONLINE GMEET LINK 2			
TRACK	COMPUTATIONAL INTELLIGENCE			
Session Chair	Dr. Haripriya Devarajan (Vel Tech - Technical University)			
Start Time	End Time	Paper ID	Paper Title	Presenter Name
09:30	09:50	17	Weed Detection and Removal using Robotic Arm with Mask R-CNN	Haripriya D; Issac Palli; Yazhinian S
09:50	10:10	27	Immunity Booster Bangladeshi Medical Plants Recognition Using CNN: A Deep Learning Approach	Zannatul Ferdausi Suma
10:10	10:30	47	Transfer Learning in Alzheimer's Disease Diagnosis: A Comparative Study of Pretrained Models	Tuck Yeow Lai
10:30	10:50	40	Evaluation of Digit Recognition Performance for Automatic Electric Meters Reading System	Iszaidy Ismail; Nuraminah Ramli
10:50	11:10	41	Machine Learning for Classification of Circular Patch Antenna Based on Resonance and Impedance Matching	Li Fang Ong
11:10	11:30	51	Classification of Mango Ripeness Grades Using Machine Learning	Noor Anis Syuhada Zahed
11:30	11:50	69	Classification of Patch Antenna Acceptance based on Antenna Gain using Machine Learning	Muhammad Fitra Zambak;
11:50	12:10	70	Circular Patch Antenna Classification Based on Radiation Pattern	Ryandika Afdila;

PHYSICAL PRESENTATION

DATE		TUESDAY (3/9/2024)		
VENUE		MARRAKESH ROOM		
TRACK		COMPUTATIONAL INTELLIGENCE 2		
Session Chair		Assoc. Prof. Dr. Ruzelita Ngadiran		
Start Time	End Time	Paper ID	Paper Title	Presenter Name
09:00	09:20	32	A Systematic Review of Attention Mechanisms in UNet Models for Medical Image Segmentation	Julaiha Jumat
09:20	09:40	49	Malaysian Sign Language Recognition for Static Gestures using Deep Learning Technique	Siti Nisrina Imtinan Tanjung
09:40	10:00	35	Integrated IoT and Machine Learning System for Solar Energy Monitoring on Small Farms	Siti Zuraidah Ibrahim
10:00	10:20	36	Deep Learning-Based System for Quranic Verse Recitation Verification	Siti Zuraidah Ibrahim
10:20	10:40	38	Wild Boars Repellent and Monitoring System For Open Space Areas Using IoT Approach	Ts. Dr. Iszaidy Ismail

10:40 11:00

TEA BREAK

DATE		TUESDAY (3/9/2024)		
VENUE		MARRAKESH ROOM		
TRACK		COMPUTATIONAL INTELLIGENCE 3		
Session Chair				
Start Time	End Time	Paper ID	Paper Title	Presenter Name
11:00	11:20	20	Uncertainty-based Active Learning for Underwater Image Annotation	Nur Farhan Kahar
11:20	11:40	53	Analysis of Dielectric Resonator Antenna (DRA) Using Machine Learning Optimization Approach	Shanmuka Rooban A/L Gunasekaran
11:40	12:00	56	A Study on Feature Extraction Methods for Effective Malware Detection: DCT, LBP, and HOG	Mohd Fikri Mohd Amin
12:00	12:20	59	Analysis of Feature Extraction on U-Net Wavelet and Clarify net in Image Defogging	Yahya Naji Obad
12:20	12:40	67	Student Academic Guidance System using Rule Based Expert System	Muhammad Aiman bin Mohd Ashraf
12:40	01:00	50	Combined CNN based Computer Imaging and Electro-magnetic Sensing Analysis for Mango Quality Detection	Shanmuka Rooban A/L Gunasekaran

ONLINE PRESENTATION

DATE		TUESDAY (3/9/2024)		
VENUE		ONLINE GMEET LINK 3		
TRACK		COMPUTATIONAL INTELLIGENCE		
Session Chair		Assoc. Prof. Dr. Zahereel Ishwar Abdul Khalib		
Start Time	End Time	Paper ID	Paper Title	Presenter Name
09:00	09:20	3	Seismic Data Quality Analysis Using Fuzzy Logic	Mahmoud Sami Soliman Salam
09:20	09:40	16	Weedy Rice Classification Mobile Apps using Convolutional Neural Network	Dayana Batrisya Mohd Azahari
09:40	10:00	26	Developing Image Deepfake Detection System Using the MesoNet Algorithm: A Comprehensive Approach	Randi Rizal
10:00	10:20	28	Multiclass Classification of Lung Cancer with SVM and XGboost with 20+ features	Zahereel Ishwar Bin Abdul
10:20	10:40	33	Nearest Decimal Approach Method of IP Addressing for Variable Length Subnet Mask Calculation: Myanmar IXP Model	Tun Tun Oo

TEA BREAK

DATE		TUESDAY (3/9/2024)		
VENUE		ONLINE GMEET LINK 3		
TRACK		COMPUTATIONAL INTELLIGENCE		
Session Chair				
Start Time	End Time	Paper ID	Paper Title	Presenter Name
11:00	11:20	34	Optimizing the TSP-D with Pity Beetle Algorithm (TSP-D+PBA) to minimize the delivery completion time for UAV routing problem	Yugeswary Kanesan
11:20	11:40	46	IoT Warning System for Early Forest Fire Detection	Muhammad Haikal Bin Hamdi
11:40	12:00	52	Automated Diabetic Retinopathy Detection: A Deep Learning-Based Approach	Tan Zhi Ting
12:00	12:20	54	Evaluation of Particulate Matter Concentrations Across Diverse Urban and Rural Locations using Machine Learning	Amer Syazwan bin Ismail
12:20	12:40	10	GSTLB- GPS Enabled Secured Software Defined Network using Transfer Learning and Block Chain Technology for Industrial IoT (IIoT)	Haripriya D; Neelamegam D; Yazhinian S
12:40	13:00	13	Enhancing RFID Antenna Design: XG Boost-Driven Machine Learning Optimization of Encapsulated Circular Loop Antenna	Syed Ali Fathima A; I. Jais M; Meenaloshini R; Kanthamani S; Mansoor Roomi S