

# DAY 1 - 23 JULY 2024 (TUESDAY)

Time (UTC+8)	Programme
9:00 -13:00	DIFCON24 Opening ceremony
13:00-13:30	Break
<b>MECON MAIN SESSION</b>	
<b>Microsoft Team Meeting ID: 423 509 499 409 Passcode: atiyq4</b>	
<b>Microsoft Team Meeting Link: Link: <a href="https://shorturl.at/cGpV7">https://shorturl.at/cGpV7</a></b>	
13:30	<b>MECON24 Opening Ceremony</b>
13:30	Opening remark by Emcee Ir.Dr Siva Priya Thiagarajah
13:33	Doa Recitation
13:35	Welcoming Speech by Prof.Dr.Mardeni Bin Roslee Conference Chair MECON24
13:40	Technical Co-sponsor Speech Prof.Dr.Hezerul Abd Karim Chair, IEEE Signal Processing Society
13:45	Acknowledgement and Appreciation Remarks by Assoc.Prof.Dr.Ooi Chee Pun Dean, Faculty of Engineering
13:50	MECON24 Montage
13:55	Photography Session
14:00 -15:00	Industry Forum Moderator: Dr Sheraz Panelist 1: Dato' Wei Chuan Beng Panelist 2: Anwar Faizd Osman Title: Artificial intelligence for 6G mobile networks
15:00 - 15:30	MECON24 Keynote 1: Prof.Dr.Parameshachari B D IEEE Bangalore Section Title: Opportunities for Electronics Engineer in IoT
15:30 - 16:00	MECON24 Keynote 2: Dr. Athar Waseem IEEE Pakistan Section Title:Adapting Facial Recognition:Overcoming Pose Variation and Occlusion Challenges
17:00	End of Day 1

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Supporting Institute:

Technical Co-Sponsor:



## DAY 2 - 24 JULY 2024 (WEDNESDAY)

Time (UTC+8)	Programme
<b>MECON Parallel Session (Morning)</b>	
9:00 -11:45	<b>Online Presentation Sessions</b> 15 minutes/presenter (10 mins of presentation and 5 mins of Q&A)
Parallel Session 1	<b>Microsoft Team Meeting ID:</b> 473 533 002 362 <b>Passcode:</b> HnUDBq
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/8uXk9">https://shorturl.at/8uXk9</a>
Parallel Session 2	<b>Microsoft Team Meeting ID:</b> 485 420 190 260 <b>Passcode:</b> y5UVEc
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/Zb68Z">https://shorturl.at/Zb68Z</a>
<b>MECON Parallel Session (Afternoon)</b>	
12:00 – 15:15	<b>Online Presentation Sessions</b> 15 minutes/presenter (10 mins of presentation and 5 mins of Q&A)
Parallel Session 3	<b>Microsoft Team Meeting ID:</b> 431 370 427 741 <b>Passcode:</b> izegbh
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/R0I4K">https://shorturl.at/R0I4K</a>
Parallel Session 4	<b>Microsoft Team Meeting ID:</b> 495 076 074 984 <b>Passcode:</b> dvQQdE
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/dcYwf">https://shorturl.at/dcYwf</a>
Parallel Session 5	<b>Microsoft Team Meeting ID:</b> 496 807 440 735 <b>Passcode:</b> jgyhsD
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/FJOxD">https://shorturl.at/FJOxD</a>
13:15 -14:00	Lunch Break
17:00	End of Day 2

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## DAY 3 - 25 JULY 2024 (THURSDAY)

Time (UTC+8)	Programme
<b>MECON Parallel Session (Morning)</b>	
9:00 - 10:45	<b>Online Presentation Sessions</b> 15 minutes/presenter (10 mins of presentation and 5 mins of Q&A)
Parallel <b>Session 6</b>	<b>Microsoft Team Meeting ID:</b> 458 923 991 260 <b>Passcode:</b> GZ9rMr
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/q7vE8">https://shorturl.at/q7vE8</a>
Parallel <b>Session 7</b>	<b>Microsoft Team Meeting ID:</b> 425 482 195 848 <b>Passcode:</b> xPpUCe
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/Y3Rr3">https://shorturl.at/Y3Rr3</a>
Parallel <b>Session 8</b>	<b>Microsoft Team Meeting ID:</b> 410 943 962 893 <b>Passcode:</b> uD4NNx
	<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/BsXXg">https://shorturl.at/BsXXg</a>
<b>MECON MAIN SESSION</b>	
<b>Microsoft Team Meeting ID: 498 596 334 209     Passcode: DHCVQf</b>	
<b>Microsoft Team Meeting Link:</b> <a href="https://shorturl.at/F7gpU">https://shorturl.at/F7gpU</a>	
11:00 - 12:00	<p style="text-align: center;">MECON24 Closing ceremony</p> <p style="text-align: center;">Closing remark Emcee by Ir.Dr Siva Priya Thiagarajah</p> <p style="text-align: center;"><i>Award presentation by</i> Prof.Dr.Hezerul Abd Karim Chair, IEEE Signal Processing Society</p> <p style="text-align: center;">Closing remark by Assoc.Prof. Dr. Ng Poh Kiat Dean, Faculty of Engineering and Technology</p>
14:00 - 17:00	<b>DIFCON24 Closing ceremony</b>
17:00	End of Day 3

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**Supporting  
Institute:**
**Technical  
Co-Sponsor:**

## MECON 2024 PRESENTATION PROGRAM DETAILS

**Day 2: Wednesday, 24 July 2024 (Morning Session)**

**MECON – PARALLEL SESSION 1**

**Microsoft Team Meeting ID:** 473 533 002 362      **Passcode:** HnUDBq

**Microsoft Team Meeting Link:** Link: <https://shorturl.at/8uXk9>

**Time: 09:00 – 11:45 (UTC +8)**

**Session Chair 1: Dr. Ngu Eng Eng**

**Session Chair 2: Dr. Thangavel Bhuvaneshwari**

### Track - Industry 4.0

Time	Paper ID	Authors	Paper Title
09:00 – 09:15	1571020255	<b>Yong Hui Liew</b> ; Wooi Haw Tan; Chee Pun Ooi	A Low-power Embedded IoT System for Accurate Detection of Unauthorized Manhole Access
09:15 – 09:30	1571022546	Sudha S; <b>Srinivasan A</b> ; Gayathri Devi T; Mardeni Roslee	Biometric Smart Voting System Using Deep Learning with Internet of Things
09:30 – 09:45	1571026829	<b>Fajaruddin Mustakim</b> ; Azlan Abdul Aziz; Lim Heng Siong; Aminuddin Bin Ahmad Kayani; Yaser Bakhuraisa; Noor Ziela Binti Abd Rahman	Traffic Characteristic and The Impact of Safety Infrastructure at Unsignalized Intersection
09:45 – 10:00	1571029577	Ali Salim Karimeh; <b>Kah-Yoong Chan</b> ; Chu Liang Lee; Gwo Chin Chung; Wai Leong Pang; Sufian Mousa Mitani	IoT Enabled Intelligent Street Lighting System for Smart Cities
10:00 – 10:15	1571030419	<b>Farzana Sharmin Nila</b> ; Wooi Haw Tan; Chee Pun Ooi; Yi-Fei Tan; Soon-Nyeon Cheong	A Synchronization Framework to Minimize Temporal Misalignment in Sensor Networks for Digital Twins

### Track - Electrical Engineering and Green Energy

10:15 – 10:30	1571006987	<b>Mohamed Ebrahim</b> ; Siow Chun Lim; Chandima Gomes	On the Impact of Lightning Strike to Animals
10:30 – 10:45	1571017716	<b>Lee Rong Sheng</b> ; Chun Lim Siow	Vertically Driven Rod as Lightning Protection Earthing System: A Review
10:45 – 11:00	1571023955	<b>Fazlul Aman</b> ; Usman Muhammad; Normiza Mohammad Nor; Miszaina Osman	Determination of Ionisation Radii for Various Soil Mixtures
11:00– 11:15	1571024791	<b>Usman Muhammad</b> ; Nurul Nadia Ahmad; Normiza Mohamad Nor; Fazlul Aman	Measured and Computed Resistance Values for Vertical Ground Rods
11:15– 11:30	1571029763	<b>Jed Allan M Cantal</b> ; Arnel C. Fajardo; Mark Anthony A Ozaeta	Repurposing and Analysis of Used LiFePO4 Battery Cells Using Electrochemical Impedance Spectroscopy

**Day 2: Wednesday, 24 July 2024 (Morning Session)****MECON – PARALLEL SESSION 2****Microsoft Team Meeting ID:** 485 420 190 260 **Passcode:** y5UVEc**Microsoft Team Meeting Link:** <https://shorturl.at/Zb68Z>**Time: 09:00 – 11:45 (UTC +8)****Session Chair 1: Dr.Chinnaiyan SenthilPari****Session Chair 2: Prof. Ir. Dr. Mohammad Faizal Bin Ahmad Fauzi****Track - Computer Vision Processing and Analysis**

Time	Paper ID	Authors	Paper Title
09:00 – 09:15	1571018691	Asad Ullah; <b>Mardeni Roslee</b> ; Adil Khan; Hu Hongfei; Jun Wang; Yasir Ullah	Optimizing Traffic Flow Through Congestion Management at Peshawar Toll Plaza: A Data-Driven Approach
09:15 – 09:30	1571020565	Amna Khatoon; Weixing Wang; Asad Ullah; Ishfaq Ahmed; Adil Hussain; <b>Mardeni Roslee</b>	Advancement in Pavement Condition Assessment: An AI-Based Computer Vision Approach
09:30 – 09:45	1571020937	<b>Sin Ting Lim</b> ; Yit Hein Yow; Way Soong Lim; Chee Siong Lim; Li Wah Thong	An Educational CT Scanner Prototype Using Optical Scanning
09:45 – 10:00	1571022563	Gayathri Devi T; <b>Srinivasan A</b> ; Sudha S; Khairil Anuar	Enhanced Parkinson's Disease Detection using Neural Brain Image
10:00 – 10:15	1571025689	<b>Mohammad Nizam Uddin</b> ; Tushar Chandra Sarker; Safaitul Islam Sefat; Shamima Akter; Fahmid Al Farid; Md Tanjil Sarker; Hezerul Abdul Karim; Sarina Mansor	A Novel Approach for Tomato Leaf Disease Detection and Classification Using Deep Learning
10:15 – 10:30	1571025867	<b>Yap Yong Loong</b> ; Wisnu Jatmiko; Kurniawati Azizah; Muhammad Hafizhuddin Hilman; Sin Liang Lim	Building Detection from Satellite Images using Deep Learning
10:30 – 10:45	1571026384	Amna Khatoon; Asad Ullah; Ishfaq Ahmed; Ayesha Aslam; <b>Mardeni Roslee</b> ; Shabeer Ahmad	Enabling Smart Road Safety Constrained Device Utilization for Accident Prevention Traffic
10:45 – 11:00	1571028916	<b>Abdur Rehman Khan Ghauri</b> ; Muhammad Danish; Lubna Nadeem; Yasar Amin; Tariq Mahmood; Muhammad Sheraz; Teong Chee Chuah; Mardeni Roslee	Detection of Chronic Kidney Disease using machine learning
11:00– 11:15	1571030531	<b>Ahmad Zaki Bin Zainudin</b> ; Hezerul Bin Abdul Karim; Nouar AIDahoul	Drone Detection and Tracking in Distorted Surveillance Video
11:15– 11:30	1571030563	<b>Jimmy Lau Ch Weng</b> ; Hezerul Abdul Karim; Nouar AIDahoul	An Evaluation of various Pre-trained Object detection models for Complex License Plate
11:30– 11:45	1571031300	<b>Ahsanul Bari</b> ; Fahmid Al Farid; Md Tanjil Sarker; Sarina Mansor; Hezerul Abdul Karim; Md Roman Bhuiyan; Hasanul Bannah	Advancements in Multi-View Human Activity Recognition for Ambient Assisted Living

**Day 2: Wednesday, 24 July 2024 (Afternoon Session)****MECON – PARALLEL SESSION 3****Microsoft Team Meeting ID:** 431 370 427 741 **Passcode:** izegbh**Microsoft Team Meeting Link:** <https://shorturl.at/R0I4K>**Time: 12:00 – 15:15 (UTC +8)****Session Chair 1: Assoc. Prof. Ir. Dr. Wong Wai Kit****Session Chair 2: Dr. Min Thu Soe****Track - Artificial Intelligence**

Time	Paper ID	Authors	Paper Title
12:00 – 12:15	1571016137	<b>Tahir H. Ahmed;</b> Fahad Nabi; Muhammad Ziad Tariq; Ahmad Fasih Khan; Azwan Mahmud	Insights into the Future: XAI Integration in O-RAN and Space Communication Systems
12:15 – 12:30	1571018327	<b>Chandra Prakash Gupta;</b> V. V. Ravi Kumar	Predictive Analytics: An AI Tool Enabling Organizations to Take Well-Informed Decisions
12:30 – 12:45	1571018718	<b>Yaser Bakuraisa;</b> Azlan Abdul Aziz; Tan Kim Geok; Azwan Mahmud; Mohamad Yusoff Alias; Mohd Khanapiah Nor	Deep Learning Based Vehicle Localization Using Angular Characteristics of Millimeter Wave
12:45 – 13:00	1571018972	<b>Youssef Yasser Salaheldin Elhammamy;</b> Gwo Chin Chung; Ming Tao Gan; Jun Jiat Tiang; Khan Yun Teong	Classification and Detection of Rice Crops using Deep Learning for Smart Agriculture
13:00 – 13:15	1571020590	<b>Muhammad Fahad Munir;</b> Abdul Basit; Athar Waseem; Mardeni Roslee; Wasim Khan; Ubaid Umar	Cognitive Fusion of Radar and Communication Functions: Deep Learning Perspectives
13:15 – 13:30	<b>BREAK</b>		
13:30 – 13:45			
13:45 – 14:00			
14:00 – 14:30			
14:30 – 14:45	1571025672	<b>Shohag Barman;</b> Fahmid Al Farid; Md Tanjil Sarker; Md Ferdous Bin Hafiz; Niaz Ashraf Khan; Hira Lal Gope; Hezerul Abdul Karim; Sarina Mansor; Ahsanul Bari	BNIMI: Boolean gene regulatory network inference based on mutual information
14:45 – 15:00	1571029982	<b>Viknesh Kumar;</b> Yeo Boon Chin; Lim Way Soong	Intelligent Tourist Attractions Recommender System with Hybrid Collaborative Filtering
15:00 – 15:15	1571030690	<b>Khubab Ahmad;</b> Em Poh Ping Em; Nor Azlina Ab Aziz	Utilizing OBD II Time Series Data for Driver Drowsiness Detection: A One-Dimensional CNN Approach

**Day 2: Wednesday, 24 July 2024 (Afternoon Session)****MECON – PARALLEL SESSION 4****Microsoft Team Meeting ID:** 495 076 074 984 **Passcode:** dvQQdE**Microsoft Team Meeting Link:** <https://shorturl.at/dcYwf>**Time: 12:00 – 15:00 (UTC +8)****Session Chair 1: Ir. Ts. Dr. Azlan Bin Abd. Aziz****Session Chair 2: Dr. Sarina Binti Mansor****Track - Wired and Wireless and Networking**

Time	Paper ID	Authors	Paper Title
12:00 – 12:15	1571012277	<b>Ali Majid Hasan Alibraheemi;</b> Tengku Faiz Tengku Mohmed Noor Izam; MHD Nour Hindia; Kaharudin Dimiyati	Mode Selection and Q-Learning-Based Resource Allocation for D2D Communication Networks
12:15 – 12:30	1571016230	<b>Hayder Faeq Alhashimi;</b> MHD Nour Hindia; Kaharudin Dimiyati; Effariza Hanafi; Tengku Faiz Tengku Mohmed Noor Izam	Power Allocation Optimization Based on Multi-Agents Reinforcement Learning for 6G Cellular Networks
12:30 – 12:45	1571016487	<b>Bilal Saoud;</b> Ibraheem Shayea; Mardeni Roslee	Routing in WSN based on improving LEACH protocol
12:45 – 13:00	1571019759	<b>Ali Majid Hasan Alibraheemi;</b> Tengku Faiz Tengku Mohmed Noor Izam; MHD Nour Hindia; Kaharudin Dimiyati	Multi Agent Q-Learning Based Resource Allocation for Relay-Aided D2D Enabled HetNets
13:00 – 13:15	1571019878	<b>Noorlindawaty Md Jizat;</b> Clement Yii Ming Kiat; Nazihah Ahmad; Azwan Mahmud; Mardeni Roslee; Yoshihide Yamada	Design of a four-port Butler Matrix and analysis of the crossover at 28 GHz
13:15 – 13:30	<b>BREAK</b>		
13:30 – 13:45			
13:45 – 14:00			
14:00 – 14:30	1571023999	Yasir Ullah; <b>Mardeni Roslee;</b> Sufian Mousa Mitani; Muhammad Sheraz; Farman Ali; Anwar Faizd Osman	Evaluation Study of Handover Control Parameters in Mobile HetNets
14:30 – 14:45	1571025424	<b>Mardeni Roslee;</b> Chilakala Sudhamani; Sufian Mousa Mitani; Anwar Faizd Osman; Fatimah Zaharah Ali; Athar Waseem	UAV Based Efficient Cooperative Spectrum Sensing in CRN
14:45 – 15:00	1571025435	Sridhar Nagisetty; Senthil C Pari; <b>Mardeni Roslee;</b> Hin Yong Wong; Anwar Faizd Osman; Athar Waseem	A Double-Ended Active Inductor-Based Class-J Power Amplifier Design for 5G Wireless Networks

**Day 2: Wednesday, 24 July 2024 (Afternoon Session)****MECON – PARALLEL SESSION 5****Microsoft Team Meeting ID:** 496 807 440 735 **Passcode:** jgyhsD**Microsoft Team Meeting Link:** <https://shorturl.at/FJOxD>**Time: 12:00 – 15:00 (UTC +8)****Session Chair 1: Ir. Dr. Siva Priya A/P Thiagarajah****Session Chair 2: Dr. Jebashini Ponnian****Track - Information Forensics and Security**

Time	Paper ID	Authors	Paper Title
12:00 – 12:15	1571029259	<b>Faretz Emir Imran;</b> Vik Tor Goh; Timothy Tzen Vun Yap; Yvonne Kam Hwei Syn	A Shoulder Surfing Resistant Authentication Scheme using Polymorphic Cipher

**Track - Wired and Wireless and Networking**

12:15 – 12:30	1571025923	Farman Ali; Yasir Ullah; <b>Mardeni Roslee;</b> Sufian Mousa Mitani; Muhammad Sheraz; Mati Ullah	UAV Deployment for Optimal Mobility Management and Connectivity in Heterogeneous Environments
12:30 – 12:45	1571026244	<b>Li Qi;</b> Sathish Selvaperumal; Yasir Ullah; Mardeni Roslee	A Study of Spectrum Sensing Techniques Based on GNURadio and Energy Detection
12:45 – 13:00	1571026302	<b>Nur Amalina Rosle;</b> Mohamad Yusoff Alias	Low-cost Internet of Things System for Turbidity Water Clarity Measurement
13:00 – 13:15	1571030296	Murad Halabouni; <b>Noorlindawaty Md Jizat;</b> Mardeni Roslee; Sufian Mousa Mitani; Osama M. S. Abujawa; Athar Waseem	Resource Allocation Scheme for NOMA in Mobile 4G/5G Communication Networks
13:15 – 13:30	<b>BREAK</b>		
13:30 – 13:45			
13:45 – 14:00			
14:00 – 14:30	1571030632	<b>Khalid Ibrahim;</b> Aqdas Naveed Malik; Athar Waseem; Mardeni Roslee; Sadiq Ahmad	Game-Theoretic Frameworks for Anti-Jamming in Cognitive Radio Networks: Advancements and Strategies
14:30 – 14:45	1571031015	Abdelbasset Azzouz; Rachid Bouhmidi; Mehr E Munir; Muhammad Sheraz; Teong Chee Chuah; <b>Mardeni Roslee</b>	Optimized Multiband Fractal Antenna Design Through Advanced Vbs and Genetic Algorithm
14:45 – 15:00	1571031460	<b>Saad Humayun;</b> Teh Chin Hui; Yee Loo Foo; Fabian Wai-Lee Kung; Boon Kuan Chung	Evaluating the Performance of MATLAB's Shooting-and-Bouncing-Ray Propagation Model



**Day 3: Thursday, 25 July 2024 (Morning Session)**

**MECON – PARALLEL SESSION 6**

**Microsoft Team Meeting ID:** 458 923 991 260 **Passcode:** GZ9rMr

**Microsoft Team Meeting Link:** <https://shorturl.at/q7vE8>

**Time: 09:00 – 10:45(UTC +8)**

**Session Chair 1: Dr.Teh Chin Hui**

**Session Chair 2: Asst. Prof. Dr. S. Deivasigamani**

**Track - Nano- and Micro-electronics**

Time	Paper ID	Authors	Paper Title
09:00 – 09:15	1571010621	<b>Mohamed OM Abdelrahim</b> ; Lee Lini	Comparing FT-TENG and CS-TENG Using Different Triboelectric Materials
09:15 – 09:30	1571024298	<b>Md. Golam Sadeque</b> ; Md Tanjil Sarker; Md. Limon Haque; Tonmoy Bhuiyan; Fahmid Al Farid; Gobbi Ramasamy	Design and Development of a High-Efficiency Boost Converter
09:30 – 09:45	1571029490	Wai Leong Pang; Tania Khatun; Swee King Phang; Ajay Kumar Singh; Angie See Tien Ng; <b>Kah Yoong Chan</b>	Optimizing Multiplier Performance Through Verilog Hardware Description Language Design
09:45 – 10:00	1571030009	<b>Cliff Zitlaw</b> ; Abdullah Sayeed; Sin Liang Lim	CRC Integration for Enhanced SPI Communication Reliability in Digital Systems

**Track - Robotics and Automation**

10:00 – 10:15	1571028959	<b>Tai Shie Teoh</b> ; Poh Ping Em; Nor Azlina Ab. Aziz	Driver Drowsiness Detection Based on LiDAR-Based Road Boundary Detection
10:15 – 10:30	1571030255	<b>Anith Khairunnisa Ghazali</b> ; Bhuvaneswari Thangavel; Nor Azlina Ab. Aziz; Chitra Venugopal	Optimizing Room Temperature with Hybrid Gain Scheduling PID Control Technology

**Track - Biomedical Signal Processing**

10:30 – 10:45	1571018698	<b>Ji Xuan Chai</b> ; Xiao Jian Tan; Joseph Jiun Wen Siet; Khairul Shakir Ab Rahman; Wai Loon Cheor; Wai Zhe Leow	Textural-based Discriminant Analysis for Tubule Measurement in Breast Histopathology Images
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**Day 3: Thursday, 25 July 2024 (Morning Session)**

**MECON – PARALLEL SESSION 7**

**Microsoft Team Meeting ID:** 425 482 195 848 **Passcode:** xPpUCe

**Microsoft Team Meeting Link:** <https://shorturl.at/Y3Rr3>

**Time: 09:00 – 10:30(UTC +8)**

**Session Chair 1: Dr.Chockalingam Palanisamy**

**Session Chair 2: Dr.Min Thu Soe**

**Track - Advances in Mechanical Engineering**

Time	Paper ID	Authors	Paper Title
09:00 – 09:15	1571015476	<b>Alif zulfakar Pokaad;</b> Nur Arif Nor Azman; Ramlee Adnan; Ahmad Zaifazlin Zainordin	Investigate Crashworthiness Behavior of Polyester/Epoxy Composite Tubes under Quasi Static Loading
09:15 – 09:30	1571019976	<b>Chee Kuang Kok;</b> Hui Ling Tay; Boon Kian Lim; Kia Wai Liew; Lingenthiran Samylingam; Chin Chin Ooi	Modeling the Dynamic Responses of Industrial Printed Circuit Board
09:30 – 09:45	1571023897	<b>Syed Fahmidul Huq;</b> Li Wah Thong; Yee Kit Chan	Effect of Beam Configuration and Piezoelectric Materials on a Cantilever-based Piezoelectric EH
09:45 – 10:00	1571025716	<b>Syed Fahmidul Huq;</b> Li Wah Thong; Yee Kit Chan	Effect of Repulsive Permanent Magnets on a Cantilever Beam-based Piezoelectric Energy Harvester
10:00 – 10:15	1571030132	<b>Mazian Mohammad;</b> Abdul R Othman; Siti Aishah Kamarol Bahrom; Mohd Faridz Mod Yunoh; Syed Mohammad Firdaus Syed A. Wahab; Abdul Matin Al-Barr Malek	Determining the Stainless Steel 304 Creep Behaviour Using Acoustic Emission Response in Frequency Do
10:15 – 10:30	1571030660	<b>Li Wah Thong;</b> Robin Tan; Sin Ting Lim	Optimizing Energy Harvesting in Footwear: An Analysis into Foot Pressure Distribution Mechanisms

**Day 3: Thursday, 25 July 2024 (Morning Session)****MECON – PARALLEL SESSION 8****Microsoft Team Meeting ID:** 410 943 962 893 **Passcode:** uD4NNx**Microsoft Team Meeting Link:** <https://shorturl.at/BsXXg>**Time: 09:00 – 10:45(UTC +8)****Session Chair 1: Dr. Chung Gwo Chin****Session Chair 2: Ts.Dr.Ngu War Hlaing****Track - Photonics and Optics**

Time	Paper ID	Authors	Paper Title
09:00 – 09:15	1571030087	<b>Kan Yeep Choo;</b> Hong Yeap Ngo; Nurul Ain Abdul Aziz; Hafiz Zulhazmi Bin Jabidin; Tee Connie; Sithi Vinayakam Muniandy; Siti Azlida Ibrahim; Hairul A. Abdul-Rashid; Mohd Ridzuan Mokhtar; Mohd Saiful Dzulkefly Zan	Machine Learning-based Classification of Hand Tool Vibrations Using Distributed Fiber Optic Sensors for Road Health Monitoring
09:15 – 09:30	1571030230	<b>Kan Yeep Choo;</b> Hong Yeap Ngo; Nurul Ain Abdul Aziz; Hafiz Zulhazmi Bin Jabidin; Tee Connie; Sithi Vinayakam Muniandy; Siti Azlida Ibrahim; Hairul A. Abdul-Rashid; Mohd Ridzuan Mokhtar; Mohd Saiful Dzulkefly Zan	Smart Optical Fiber Network Health Monitoring Using Deep Learning-Based Distributed Acoustic Sensing Technique
09:30 – 09:45	1571030258	<b>Jafar Ali Khan;</b> Akhtar Nawaz Khan; Farman Ali; Yasir Ullah; Mardeni Roslee; Sufian Mousa Mitani	Multi-Channel Radio Over Fiber System Investigations for Capacity Enhancement
09:45– 10:00	1571032926	<b>Rahat Ara;</b> It Ee Lee; Zabih Ghassemlooy; Gwo Chin Chung	Outage Analysis of Free-Space Optical Communication Systems Over Atmospheric Turbulences and Low Visibilities Channel Conditions

**Track - Trending Technologies in Signal and Image Processing**

10:00 – 10:15	1571025640	<b>Umair Hafeez Khan;</b> Abdul Basit; Wasim Khan; Athar Waseem; Mardeni Roslee	Exploring Resolution Performance in DCFDA-MIMO Arrays
10:15 – 10:30	1571030741	<b>Ahsanul Bari;</b> Fahmid Al Farid; Md Tanjil Sarker; Sarina Mansor; Hezerul Abdul Karim; Md Roman Bhuiyan; Hasanul Bannah7	Lightweight Deep Learning for Human Activity Recognition in Ambient Assisted Living
10:30 – 10:45	1571039576	<b>Sergio Conde;</b> Mauro Pessino	Minisatellite Applied in The Teaching of Experimental Sciences in Different Educational Contexts