

CONFERENCE AGENDA

Venue: Cisco Webex Meeting (TBA)

6 MAY2020

8.30 am – 8.45 am	Opening Session General Chair Welcome Remarks Ts. Dr. Fatimah Salim
8.45 am – 9.00 am	Officiating Address Assoc. Prof. Dr. Astuty Amrin Dean, Razak Faculty of Technology and Informatics Universiti Teknologi Malaysia
9.00 am – 9.30 am	Plenary Speaker 1 (Video) Prof. Dr. Marco Mugnaini, University of Siena, Italy Topic: Advanced Reliability, Availability and Safety Design Tools for Industrial Applications
9.40 am – 10.10 am	Plenary Speaker 2 (Live) Dr. Mazlan Abbas, FAVORIOT Sdn. Bhd, Malaysia Topic: IR 4.0 – Embrace or Become Obsolete
<hr/>	
10.30 am-1.00 pm	Parallel Session 1 -Virtual Room 1 Invited Speaker 1: Dr. Rudzidatul Akmam Dziyauddin, UTM Topic: Deep Reinforcement Learning Empowered Computation Offloading for Vehicle Edge Computing Track 1: Emerging Technologies, Applications and Services
10:30 am – 12:30 pm	Parallel Session 1 -Virtual Room 2 Track 2: Smart Sensors and Applications
<hr/>	
12.30 pm – 1:30 pm	Break
<hr/>	
1:30 pm – 3.30 pm	Parallel Session 2 -Virtual Room 1 Track 3: Software Development for Measurement and Instrumentation Support 1
1.30 pm - 4.00 pm	Parallel Session 2 -Virtual Room 2 Track 4: Software Development for Measurement and Instrumentation Support 2

CONFERENCE AGENDA

Venue: Cisco Webex Meeting (TBA)

7 MAY2020

Parallel Session 3 -Virtual Room 1

Track 5: PHY and Fundamentals

8.30 am – 10.30 am

Parallel Session 3 -Virtual Room 2

Track 6: Health Technology

10:30 am – 11:00 am

Keynote Address

Keynote Speaker 1

Ir. Dr. Hafizal Mohamad, MIMOS Berhad

Topic: Internet of Things (IoT)- Overview, Ecosystem and Future Outlook

11:00 am – 11:30 am

Keynote Speaker 2

Prof. Dr. Md. Atiqur Rahman Ahad, University of Dhaka

Topic: Human Activity Recognition: Healthcare Perspectives & Others

11.30 am – 12:00 pm

Break

12:00 pm – 2.30 pm

Parallel Session 4 -Virtual Room 1

Track 7: Intelligent Control and Measurement 1

Parallel Session 4 -Virtual Room 2

Track 8: Intelligent Control and Measurement 2

2:30 pm – 3.00 pm

Closing & Awards Ceremony

***Parallel Session 1-4:** *Please refer to specific tentative for details*

PARALLEL SESSION 1

6 May 2020

Virtual Room 1

Emerging Technologies, Applications and Services

Venue

Cisco Webex Meeting (TBA)

Chairperson

Assoc. Prof. Ts. Dr. Liza Abdul Latiff

Co-chair

Dr. Hazilah Mad Kaidi

Agenda

Invited Speaker

Dr. Rudzidatul Akmam Dziauddin

10:30 am Topic: Deep Reinforcement Learning Empowered Computation Offloading for Vehicle Edge Computing

Time	Author(s)	Paper Title
10:50 am	Mohammad Emad Alolaby, Rudzidatul Dziauddin, Liza A. Latiff	Reduction of HARQ latency for URLLC 5G services based on network slicing and Massive MIMO hybrid beamforming [TAFGEN]
11.10 am	Suhaila Ab Aziz, Suriani Mohd Sam, Norliza Mohamed, Rudzidatul Dziauddin	The Comprehensive Review of Neural Network: An Intelligent Medical Image Compression for Data Sharing [TAFGEN]
11.30 am	Mohammad Emad Alolaby, Rudzidatul Dziauddin, Liza A. Latiff, Norulhusna Ahmad	Survey of Enablers to Overcome Latency in 5G Radio Access Networks [TAFGEN]
11:50 am	Muhammad Saqib Iqbal, Zulhasni Bin Abdul Rahim, Syed A Hussain, Norulhusna Ahmad, Hazilah Mad Kaidi, Robiah Ahmad, Rudzidatul Dziauddin	Limitations in the Adoption of Mobile Communication (2G, 3G &4G) and Future Interest of 5G in Pakistan: A Review [TAFGEN]
12.10 pm	Sheema Hashim, Rudzidatul Dziauddin, Mohd Azri Mohd Izhar, Suriani Mohd Sam, Norliza Mohamed	Internet of Vehicle Layered Architecture and Network Model [TAFGEN]
12.30 pm	Yong Suan Ong, Nelidya Md. Yusoff, Abdul Hadi Sulaiman, Fairuz Abdullah, Lau Kuen Yao	Performance Investigation of Dual Wavelength Fiber Laser using different SOAs [TAFGEN]

*NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.

PARALLEL SESSION 1

6 May 2020

Virtual Room 2

Smart Sensors and Applications

Venue

Cisco Webex Meeting (TBA)

Chairperson

Dr. Mohd. Nabil Bin. Muhtazaruddin

Co-chair

Ts. Dr. Fatimah Salim

Agenda

Time	Author(s)	Paper Title
10:30 am	Sofwah Alimin Mahama Chedaod, Aznida Abu Bakar Sajak, Jasrina Jaffar, Mohd Sallehin Mohd Kassim	LoRaWAN based Movement Tracker for Smart Agriculture [ICSSA]
10:50 am	Mohd Sallehin Mohd Kassim, Aznida Abu Bakar Sajak, Mohd Rifqi Rozman, Megat F. Zuhairi	IoT Water Quality Monitoring for Smart City [ICSSA]
11.10 am	Muhammad Shakhil Iman Hasnan, Roziyani Rawi, Aznida Abu Bakar Sajak	Palm Oil Soil Monitoring System for Smart Agriculture [ICSSA]
11.30 am	Kuheli Mondal, Aminudin Abu, Hoong Thiam Toh, Saurav Das, Saikat Das, Akij Ahmad	An Improved All-Pass Filtered x Least Mean Square Algorithm [ICSSA]
11:50 am	Rudzidatul Dziauddin, Airull Azizi Awang Lah, Nelidya Md. Yusoff, Noor Azurati Ahmad, Mohd Ismifaizul Bin Mohd Ismail, Robiah Ahmad	Leakage Localisation Using Cross Correlation for Wireless Three-Axis Vibration Sensors [ICSSA]
12.10 pm	Ana Sakura Zainal Abidin, Mohd Zulhatta Kifli, Annisa Jamali, A.J., Rasli Muslimen, Raudhah Ahmadi	Development of Black Pepper Rotary Drum Dryer System [ICSSA]

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PARALLEL SESSION 2

6 May 2020

Virtual Room 1

Software Development for Measurement and Instrumentation Support 1

Venue

Cisco Webex Meeting (TBA)

Chairperson

Ts. Dr. Siti Armiza Mohd Aris

Co-chair

Ts. Dr. Nurul Aini Bani

Agenda

Time	Author(s)	Paper Title
1:30 pm	Wong Hui Ming, Mitra Mohd. Addi	Early Detection of Depression using Screening Tools and EEG Signals [ICBAPS]
1:50 pm	Tee Yi Wen, Nurul Aini Bani, Firdaus Muhammad-Sukki, Siti Armiza Mohd Aris	Electroencephalogram (EEG) Human Stress Level Classification based on Theta/Beta Ratio [ICBAPS]
2:10 pm	Mamunur Rashid, Norizam Bin Sulaiman, Mahfuzah Mustafa, Bifta Sama Bari, Md Jahid Hasan	Five-Class SSVEP Response Detection using Common-Spatial Pattern (CSP)-SVM Approach [ICBAPS]
2:30 pm	Tengku 'Afiah Mardhiah Tengku Zainul Akmal, Abd Hafiz Qayyum Abd Talib, Siti Armiza Mohd Aris, Siti Zura A. Jalil	Stress Classification Based on Human Electromagnetic Radiation Analysis [ICBAPS]
2:50 pm	Razak Mohd Ali Lee, Terence Jerome Daim	IR-UWB Radar Sensor for Fine Human Motion Detection [ICSSA]
3:10 pm	Firdaus Firdaus, Noor Azurati Ahmad, Shamsul Sahibuddin, Rudzidatul Dziauddin	Modelling the Effect of Human Body around User on Signal Strength and Accuracy of Indoor Positioning [ICSSA]

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PARALLEL SESSION 2

6 May 2020

Virtual Room 2

Software Development for Measurement and Instrumentation Support 2

Venue

Cisco Webex Meeting (TBA)

Chairperson

Assoc. Prof. Dr. Robiah Ahmad

Co-chair

Dr. Rudzidatul Akmam Dziyauddin

Agenda

Time	Author(s)	Paper Title
1:30 pm	Fikri Aditya, Surya Michrandi Nasution, Agus Virgono	Traffic Flow Prediction Using Sumo Application With K- Nearest Neighbor (KNN) Method [ICSSA]
1:50 pm	Khusnan Hadi Eka Panca Dharma, Surya Michrandi Nasution, Agus Virgono	Level of Services Impact Prediction with Multiclass SVM On Vehicle Speed [ICSSA]
2.10 pm	Annisa Putri), Agus Virgono), Casi Setianingsih	Analysis of Image Processing in Barcode Using The K-Nearest Neighbor (K-NN) Classification [ICSSA]
2.30 pm	Diah Rahmadani, Agus Virgono, Casi Setianingsih	Food Detection Using Histogram of Oriented Gradient (HOG) as Feature Extraction and K-Nearest Neighbors (K-NN) as Classifier [ICSSA]
2:50 pm	Amjad Malik, Surya Michrandi Nasution, Agus Virgono	Traffic Flow Prediction Using Naïve Bayes Based on Measurement of V/c Ratio [ICSSA]
3.10 pm	Muhammad Rizqi Mubarak, Burhanuddin Dirgantoro and Casi Setianingsih	Designing a Software as a Decision-Maker to Sell and Buy Stock Using Stochastic Oscillators and Exponential Moving Average Method [ICSSA]

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PARALLEL SESSION 3

7 May 2020

Virtual Room 1

PHY and Fundamentals

Venue

Cisco Webex Meeting (TBA)

Chairperson

Dr. Norulhusna Ahmad

Co-chair

Ts. Dr. Suriani Mohd. Sam

Agenda

Time	Author(s)	Paper Title
8:30 am	Yusnita Rahayu, Muhammad Hilmi	Stair-Hexagonal Slot Antenna with CPW Technique for Biomedical Applications [TAFGEN]
8:50 am	Siti Harliza Binti Mohd Razali, Razali Ngah, Yoshihide Yamada, Kamilia Kamardin	Patch Antenna for Underwater Wireless Communication in Seawater [TAFGEN]
9.10 am	H Heru Abrianto, Norliza Mohamed, Suriani Mohd Sam, Rudzidatul Dziauddin	Reconfiguration of Double Stub Feeding in Microstrip Antenna Array for WLAN and WiMAX [TAFGEN]
9.30 am	Marita Fauziah, Aloysius Adya Pramudita, Erfansyah Ali	Self-Complementary Bowtie Antenna with Resistive Loading for Increasing Bandwidth and Reducing Ringing Level [TAFGEN]
9:50 am	Yusnita Rahayu and Maulana Reza	Characterization of Flexible Rectangular Slot Antenna for Medical Applications [TAFGEN]
10.10 am	Syed A Hussain, Norulhusna Ahmad, Hazilah Mad Kaidi and Liza A. Latiff, Norliza Mohamed, Suriani Mohd Sam	Codebook Design Techniques for Sparse Code Multiple Access [TAFGEN]

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PARALLEL SESSION 3

7 May 2020

Virtual Room 2

Health Technology

Venue

Cisco Webex Meeting (TBA)

Chairperson

Ts. Haslaile Abdullah

Co-chair

Ts. Dr. Siti Zura A. Jalil

Agenda

Time	Author(s)	Paper Title
8:30 am	Hannah Sofian, Joel Chia Ming Than, Suraya Mohamad, Norliza Mohd Noor	Calcification Detection for Intravascular Ultrasound Image using Direct Acyclic Graph Architecture: Pre-Trained Model for 1-Channel Image [ICBAPS]
8:50 am	Muhammad Yahya, Laiq Hasan, Syed Asad Ali	High-throughput Protein Sequence Alignment on Multi-core Systems [ICBAPS]
9.10 am	Mardhati Mahadi, Nurul Aini Bani, Sahnius Usman, Sharipah Alwiah Syed Abd Rahaman, Norliza Mohd Noor, Mohd Nabil Muhtazaruddin	Relationship between Hand Grip and Pinch Strength with Nutritional Health Status Among Indigenous People in Perak, Malaysia [ICBAPS]
9.30 am	Nor Azizah Ibrahim, Sharifah Alwiah Syed Abd Rahman, Siti Haida Ismail, Haslaile Abdullah	Risk Factors Affecting Occupational- related Musculoskeletal Disorder of Tower Crane Operators [ICBAPS]
9:50 am	Nuhu Yusuf, Rilwanu Sabo, Maryam Suleiman, Kamalu Marafa, Zainab Abubakar, Kamila Ladan, Aminu Hamza	Smart Health Internet of Thing for Continuous Glucose Monitoring: A Survey [ICSSA]
10.10 am	Zuriati Janin, Hazilah Mad Kaidi, Robiah Ahmad, Sheroz Khan	Derivative Proportional - Integral Controller Using Nelder-Mead Optimization for Glycerin Purification Heating Process [ICSSA]

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PARALLEL SESSION 4

7 May 2020

Virtual Room 1

Intelligent Control and Measurement 1

Venue

Cisco Webex Meeting (TBA)

Chairperson

Ts. Dr. Nelidya Md. Yusoff

Co-chair

Dr. Mohd. Nabil Muhtazaruddin

Agenda

Time	Author(s)	Paper Title
12:00 pm	Yogantana Arum Panganti, Erfansyah Ali, Aloysius Adya Pramudita	Design of Microstrip Composite Bandpass Filter for Ground Penetrating Radar [TAFGEN]
12:20 pm	Teddy Andriawan, Erfansyah Ali, Aloysius Adya Pramudita	Ground Penetrating Radar Analysis for Detecting Void in Concrete [TAFGEN]
12.40 pm	Noor Iziddin Abdullah Ghazali, Mohd Azri Mohd Izhar, Rudzidatul Dziauddin	Energy Cost Reduction for Telecommunication Towers Using Hybrid Energy Storage [TAFGEN]
1.00 pm	Bagas Satriyotomo, Heroe Wijanto, Edwar Edwar ,Vinsensius Prabowo	Microstrip Antenna with Slotted Rectangular Truncated Corner Patch for ADS-B Receiver on Cubesat [ICSSA]
1:20 pm	Sharizal Fadlie Sabri, Malaysia); Noor Azurati Ahmad, ShamsulSahibuddin, Rudzidatul Dziauddin	Dynamic Frequency Scheduling for CubeSat's On Board and Data Handling Subsystem [ICSSA]
1.40 pm	Rudzidatul Dziauddin, Mohd Ismifaizul Bin Mohd Ismail, Fitri Yakub, Yoshihide Yamada	An RSSI-based Wireless Sensor Node Localisation using Trilateration and Multilateration Methods for Outdoor Environment [ICSSA]

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**

PARALLEL SESSION 4

7 May 2020

Virtual Room 2

Intelligent Control and Measurement 2

Venue

Cisco Webex Meeting (TBA)

Chairperson

Dr. Noorlizawati Abd Rahim

Co-Chair

Ts. Haslaile Abdullah

Agenda

Time	Author(s)	Paper Title
12:00 pm	Muhammad Ghifari Arfananda, Surya Michrandi Nasution, Casi Setianingsih	Selection of Bandung City Travel Route Using FLOYD-WARSHALL Algorithm [ICSSA]
12:20 pm	Abdul Aziz, Surya Michrandi Nasution, Casi Setianingsih	Analysis Simple Additive Weighting and Genetic Algorithm for Traffic Management System [ICSSA]
12.40 pm	Nik ahmad kamil,Zainal abidin), Norkharziana Mohd Nayan	Analysis of AC-DC converter circuit performance with difference piezoelectric transducer array connection [ICSSA]
1.00 pm	Fatin Hamizah Abdol Rahim Norliza Mohd Noor, Haslaile Abdullah	Cost Minimization of Aircraft Critical Components for Planning and Maintenance Requirements [ICSSA]
1:20 pm	Yuen Chark See	IoT-Based Fire Safety System Using MQTT Communication Protocol [ICSSA]
1.40 pm	Yusril Firza, Burhanuddin Dirgantoro, Casi Setianingsih	Designing A Software as A Decision Maker to Sell and Buy Stock Using Bollinger Bands and Single Exponential Smoothing Method [ICSSA]

***NOTE: Presentation – 15 mins; Q&A – 5 mins. Titles are accurate as of printing date.**