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12-13 JUNE 2021
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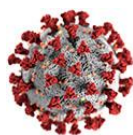
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<https://www.timeanddate.com>

12 June 2021

	ROOM A	ROOM B	ROOM C	ROOM D
10.40-11.00	Welcome Talk on behalf of Organizing Committee: - Prof. Dr. Mardeni Bin Roslee -Prof. Dr. Amin Badshah - Prof. Dr. Nadeem Ahmed Sheikh			
11.00-13.00	Parallel Session 1A: Neural Networks, Deep Learning, and Intelligent Systems	Parallel Session 1B: Power Generation and Renewable Energy Systems	Parallel Session 1C: Networks Security and Reliability	Parallel Session 1D: Mixed Topics
13.00-13.30	BREAKFAST / LUNCH / DINNER			
13.30-14.00	Plenary Session 1: Keynote Speakers - Prof. Dr. Mardeni Bin Roslee			
14.00-15.45	Parallel Session 2A: Neural Networks, Deep Learning, and Intelligent Systems	Parallel Session 2B: Power Generation and Renewable Energy Systems	Parallel Session 2C: Intelligent Robotics and Control Systems	Parallel Session 2D: Mixed Topics
15.45-16.00	TEA BREAK			
16.00-16.30	Plenary Session 2: Keynote Speakers - Prof. Dr. Victor Chang			
16.30-18.00	Parallel Session 3A: Power Generation and Renewable Energy Systems	Parallel Session 3B: Advanced Electronics	Parallel Session 3C: Antennas, Propagation and Radar Systems	Parallel Session 3D: Wireless Communication Systems and Technologies
18.00-18.15	TEA BREAK			
18.15-20.15	Parallel Session 4A: Neural Networks, Deep Learning, and Intelligent Systems	Parallel Session 4B: Power Generation and Renewable Energy Systems	Parallel Session 4C: Networks Security and Reliability	Parallel Session 4D: Software Engineering

13 June 2021

	ROOM A	ROOM B	ROOM C	ROOM D
11.00-11.30	Plenary Session 3: Keynote Speakers - Prof. Dr. Patrick S. P. Wang			
11.30-13.00	Parallel Session 5A: Neural Networks, Deep Learning, and Intelligent Systems	Parallel Session 5B: Signal and Image Processing Techniques	Parallel Session 5C: Advanced Electronics	Parallel Session 5D: Intelligent Robotics and Control Systems
13.00-13.30	BREAKFAST / LUNCH / DINNER			
13.30-15.15	Parallel Session 6A: Neural Networks, Deep Learning, and Intelligent Systems	Parallel Session 6B: Power Generation and Renewable Energy Systems	Parallel Session 6C: Mixed Topics	
15.15-15.30	TEA BREAK			
15.30-16.00	Plenary Session 4: Keynote Speakers - Dr. Fazel Mohammadi			
16.00-17.45	Parallel Session 7A: Neural Networks, Deep Learning, and Intelligent Systems	Parallel Session 7B: Mixed Topics	Parallel Session 7C: Mixed Topics	
17.45-18.00	TEA BREAK			
18.00-19.45	Parallel Session 8A: Antennas, Propagation and Radar Systems	Parallel Session 8B: Signal and Image Processing Techniques	Parallel Session 8C: Wireless Communication Systems and Technologies	
19.45-20.00	TEA BREAK			
20.00-20.30	Closing Session: Prof. Dr. Mardeni Bin Roslee Dr. Yunus UZUN, Dr. Shafqat Ullah Khan Dr. Athar Waseem			



12 June 2020

PLENARY SESSION 00

Session 00: Opening Session – Welcome Talk on behalf of Organizing Committee
Room A

10:40-11:00

Prof. Dr. Mardeni Bin Roslee
Prof. Dr. Amin Badshah
Prof. Dr. Nadeem Ahmed Sheikh

PARALLEL SESSIONS 1

Parallel Session 1A: Neural Networks, Deep Learning, and Intelligent Systems
Session chair: Hafizza Abdul Ghapar

Room A

11.00-13.00	Akmal Ramadhan Arifin , Prima Dewi Purnamasari, Anak Agung putri Ratna	14 <i>Automatic Essay Scoring for Indonesian Short Answers using Siamese Manhattan Long Short-Term Memory</i>
	Buldan Muslim, Charisma Juni Kumalasari, Nurrohmat Widjajanti, Asnawi	62 <i>72 Hours Ahead Prediction of Ionospheric TEC using Radial Basis Function Neural Networks</i>
	Nur Athirah Zailan , Anis Salwa Mohd Khairuddin, Uswah Khairuddin, Akira Taguchi	94 <i>YOLO-based Network Fusion for Riverine Floating Debris Monitoring System</i>
	Nor Aziah Amirah Nor , Uswah Khairuddin, Rubiyah Yusof, Nik Mohamad Aizuddin Nik, Ridzuan Yunus	95 <i>Esophagus Detection Using Deep Learning Method</i>
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	Anthony B. Villa, Rogie P. Jacinto, Michell Ann A. Ramos, Stephen Paul L. Alagao	197 <i>Determination of Citrullus Lanatus "Sweet-16" Ripeness Using Android-Based Application</i>
	Nor'asnilawati Salleh , Nurulhuda Firdaus Mohd Azmi, Siti Sophiyati Yuhaniz	236 <i>An Adaptation of Deep Learning Technique In Orbit Propagation Model Using Long Short-Term Memory</i>
	Arsh Agarwal , Aryan Singhal, Anmol Srivastava, Piyush Tewari	295 <i>FA-GAN: High quality face aging</i>

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 1B: Power Generation and Renewable Energy Systems

Session chair: **Zahid Ullah**

Room B

11.00-13.00

Rafiq Asghar, Kaleem Ullah, Zahid Ullah, Athar Waseem, Nauman Ali, Kamran Zeb Z. Ullah, R. Asghar, N. Ali, A. Waseem, A. Khan, **T. Mujahid**, B. Khan, S. M. Ali, C. A. Mehmood

Hao Wu, Xiaojun Fu, Shengdong Hu

Amil Daraz, Dr. Engr Suheel Abdullah Malik, Dr. Athar Waseem

Dewan Mahnaaz Mahmud, Fardeen Mahbub, **Farhan Tasnim**, MD. Zilan Uddin Saif, Siam Hasan Khan

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Jiayi Fan, YongKeun Lee

Luu Huu Vinh Quang

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114 *Digital Signal Processing for Power Quality Enhancement within Smart Grid*

198 *A 650V Enhancement Mode GaN HEMT Device with Field Plate for Power Electronic Applications*

210 *Genetic Algorithm based I-P controller for superheated steam temperature control system*

232 *A Review on Solar and Biomass Energy for Overcoming the Energy Scarcity of Bangladesh and its Prospects*

290 *Copper Loss Reduction of Torque Sharing Function in Switched Reluctance Motor by Division of Commutation Region*

291 *Extending Maximum Speed of Torque Sharing Function Method in Switched Reluctance Motor*

322 *Assessing the Transient Stability Under The Impact Of Double Shot Air To Rank The Power Buses In Multi Machine Power Systems*

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 1C: Networks Security and Reliability

Session chair: **Aisha Zahid Junejo**

Room C

11.00-13.00	Quoc-Dung Ngo, Huy-Trung Nguyen, Viet-Dung Nguyen, Cong-Minh Dinh , Anh-Tu phung, Quy-Tung Bui	37 <i>Adversarial Attack and Defense on Graph-based IoT Botnet Detection Approach</i>
	Tran Haoang Hai, Le Hai Nam	77 <i>A Practical Comparison of Deep Learning Methods for Network Intrusion Detection</i>
	Tomoaki Ukezono	89 <i>Resistance for Side-Channel Attack by Virtual Dual-Rail Effect</i>
	Chung T. Kong	151 <i>Hacking CCTV by changing time</i>
	Aisha Zahid Junejo , Dr. Manzoor Ahmed Hashmani, Dr. Abdullah Alabdulatif	163 <i>Blockchain Privacy Preservation by Limiting Verifying Nodes' During Transaction Broadcasting</i>
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	Jun O Seo , Sathiamoorthy Manoharan, Ulrich Speidel	272 <i>Feasibility Evaluation of Long-Distance Network Timing-based Covert Channels</i>
Yang Qin , Masaaki Kondo	328 <i>Federated Learning-Based Network Intrusion Detection with a Feature Selection Approach</i>	

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 1D: Mixed Topics

Session Chair: **Mardeni Bin Roslee**

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59 *Memory Hardware Quality Requirements for Hybrid Multi Cloud Computing*

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Sensor for Liquid Detection*

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Zubaida Yusoff, Mardeni Roslee,
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Using Totem Pole Configuration for Envelope
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Faisal, Rosnani

238 *Optimal Auto Calling Algorithm For Real-
Time Condition Reporting By Corruption
Handling Officer*

Subrata Kumar Das,
Mohammad Zahidur Rahman

264 *A Compression Technique for Electronic
Health Data through Encoding*

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304 *Measurement of Muscle Stimulation and
Hot Compression for Rehabilitation*

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Fahmizal, Spetia Dini Rahayu,
Ahmad Fauzi Ridwa, Dani Yudha
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Furnace Temperature for Fire Resistance Test*

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403 *Optimization of Input Values of Simulated
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BREAKFAST / LUNCH / DINNER/TEA BREAK



PLENARY SESSION 1

Plenary Session 1: Keynote Speaker

Room A

13:30-14:00	Prof. Dr. Mardeni Bin Roslee	-382- <i>Radio Resource Allocation for Interference Management in Device to Device (D2D) 5G Networks</i>
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PARALLEL SESSIONS 2

Parallel Session 2A: Neural Networks, Deep Learning, and Intelligent Systems

Session chair: **Kubra Tas**

Room A

14.00-15.45	Chiao-Shing Lin , Mohammed Yunus Abdul Gaffar, Jarryd Son, Simon Winberg	71 <i>Dynamic Hand Gesture Recognition using Doppler Sonar and Deep Learning</i>
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	Kubra Tas , Eyup Onder, Mehmet S. Aktas	86 <i>On the Implicit Feedback Based Data Modeling Approaches for Recommendation Systems</i>
	Alperen Mollaoglu , Gursel Baltaoglu, Efsa Cakur, Mehmet S. Aktas	87 <i>Outlier Detection on Streaming Customer-behavior Data with Unsupervised Learning Methods</i>
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	Saheed Salahudeen Abdullahi , Sun yiming, Shamsuddeen Hassan, Abdurashheed Mustapha, Ahmad Muhammad Aminu, AbdulKadir Abdullahi, Musa Bello, Saminu Mohammad Aliyu	179 <i>Deep Sequence Models for Text Classification Tasks</i>
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BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 2B: Power Generation and Renewable Energy Systems

Session chair: **Abeer Farouk Al-Attar**

Room B

14.00-15.45	Umar Musa , Abdullahi A.Mati. Abdullahi A. Mas'ud, Gaddafi S. Shehu, Ricardo Albarracin- Sachez, Johantan M.Rodriguez- Serna	27 <i>Modeling and Analysis of Electric Field Variation across Insulation System of a MV power Cable</i>
	Kassimi Youghourta , Guettaf Abderrazak, Ali Arif	53 <i>6/4 SRM electromagnetic modeling and control by using Finite element method</i>
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	Abdulbari Ali Mohamed FREI , Muhammet Tahir GUNESER	217 <i>A Huristic Method Base For Optimum Placement Of Distributed Energy Resources In Practical Radial Distribution Feeder</i>
	Majid. S. M. Al-Hafidh , Omar Sh. Al-Yozbaky, Azhear. S. Al- Fahadi	248 <i>A New Approach to Reconfiguration of Electric Distribution Networks</i>
	Abeer Farouk Al-Attar	276 <i>Optimizing Mechanical and Physical Properties of Phosphorus Pentoxide as Solid Electrolyte</i>

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 2C: Intelligent Robotics and Control Systems

Session chair: **Aleem Khaliq**

Room C

14.00-15.45	Muhammad Hamza Ali , Muhammad Salman Kabir	24 <i>Design and Development of an Unmanned Ground Vehicle with Serial Manipulator and its Control Mechanism</i>
	Zaharuddeen Haruna , Muhammed B. Mu'azu, Yusuf S. Abubakar, Emmanuel A. Adedokun	49 <i>Path Tracking Control of Four Wheel Unmanned Ground Vehicle using Optimized FOPID Controller</i>
	Joao Vitor Assmann , Marcelo Gotz, Ivan Muller, Achim Rettberg	90 <i>Distributed Embedded Platform for Controllers Following the Supervisory Control Theory</i>
	Serigne Modou DIOUF , Ibrahima GUEYE, Abdoulaye KEBE, Moustapha DIOP	113 <i>Comparative study of conventional PID and fuzzy logic controllers applied to an electric oven</i>
	Corneliu Andrei NAE , Ioan Dumitrache	265 <i>Adaptive Driving Models for Intelligent Traffic Cyber Physical Systems</i>
	Samer Mutawe, Mohammad Hayajneh , Suleiman BaniHani	316 <i>Robust Path Following Controllers for Quadrotor and Ground Robot</i>
	Ossama Ammari , Khalid El majdoub, Rachida Baz, Abderrahim Taouni	381 <i>Longitudinal modelling of Electric Vehicle driven by a BLDC In-Wheel Motor based on Pacejka tire model</i>

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Parallel Session 2D: Mixed Topics

Session chair: **Mohamad Huzaimay Jusoh**

Room D

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	Pedro Juan Roig , Salvador Alcaraz, Katja Gilly, Carlos Juiz	46 <i>Applying multidimensional geometry to basic fog computing designs</i>
	Pedro Juan Roig , Julio Jornet, Adolfo Albaladejo, Juan Carlos Hernandez	47 <i>Remote surveillance system in isolation for Covid-19</i>
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	Emanuele Virgillito , Andrea Castoldi, Stefano Straullu, Rosanna Pastorelli, Vittorio Curri	121 <i>QoT Computation for 100G Lightpaths Routed on 10G-loaded Dispersion-Managed Network Segments</i>
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BREAKFAST / LUNCH / DINNER/TEA BREAK



PLENARY SESSION 2

Plenary Session 2: Keynote Speaker

Room A

16:00-16:30

Prof. Dr. Victor Chang

Title- *The AI-based Data Science and Analytics services*

PARALLEL SESSIONS 3

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Session chair: **Ingmar Leibe**

Room A

16:30-18.00

Muhammad Umar Siddiqui,
Sajid Ali, Sikandar Khan,
Sadaqar Ali, Mamon M. Horoub

401 *Optimum Tilt Angles of Solar Collectors in Saudi Arabia*

bernard Tonderayi Mangara

421 *Revisiting some computation methods for estimating the parameters of the Weibull Distribution*

Mirza Batalovic, Selma
Grebovic, Mirza Matoruga, Sead
Berberovic

435 *Modeling of Partial Discharge Activity inside the Defects in Power Cable using COMSOL Mph-Matlab Software Platform*

Habib Conrad Sotiman Yotto, Patrice Koffi Chetangny,
Sossou Houndedako, Jacques
Aredjodoun, Didier Chamagne,
Gerald Barbier, Antoine Vianou

455 *Estimation and forecasting electricity load in Benin: using econometric model ARIMA/GARCH*

Dr. Nassipkul Dyussebekova,
Dr. Ingmar Leibe, M.Eng.
Michelle Mustroph, Prof. Dr.-Ing.
Reiner Schutt

461 *Possibilities for grid friendly system integration of renewables through power electronic based devices in the electrical energy supply*

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 3B: Advanced Electronics

Session chair: **Tobias Scheipel**

Room B

16:30-18.00

Kentaro Hori, Daichi Mochizuki, Yosimi Kikuchi, Hiroyuki Wakiwaka, Makoto Sonehara, Toshiro Sato

45 *Effects of Magnetic Pole Arrangement on Braking Torque of Eddy Current Brakes*

Oliver Niebuhr, Anna Gutnyk

48 *Pronunciation engineering: Investigating the link between jaw-movement patterns and perceived speaker charisma using the MARRYS cap*

John Xavier Toledo, Jennibeth Gatal, John Imperial

70 *Configurable Precision IEEE 754-2019 Floating-Point Square Root IP using CrossLink-NX FPGA*

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80 *papagenoReQ: Generation of Embedded Systems from Application Code Requirements*

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127 *Performance Analysis of an Efficient Montgomery Multiplier using 7nm FinFET and Junctionless FinFET*

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 3C: Antennas, Propagation and Radar Systems

Session chair: **Shafqat Ullah**

Room C

16:30-18.00	Syed Hamza Faisal , Hamza Abbasi, Saleem Shahid, Shahryar Saleem	55 <i>Multi-Band Antenna with L-U-E Slots for WiMAX and WLAN Applications</i>
	Tauriq Latief , Simon Winberg, Amit Mishra	67 <i>The Design of a Two-element Radio Interferometer Using Satellite TV Equipment</i>
	Nurhan Kahyaoglu , Ugur Celtekligil, Oral Erdogan, Metin Cavdar	75 <i>Development of a Brushless DC (BLDC) Motor Driven Retractable Sonar Antenna (RESA) System Design by means of Hydrodynamic Analysis</i>
	Aykut Cinay, Erol Kurt, Kayhan Celik	101 <i>Design and Implementation of a 2.4 GHz Yagi-Uda Antenna and Dependence of the Antenna Parameters to the Structural Parameters</i>
	Emtiaz Ahmed Mainul , Dr. Md. Faruque Hossain	132 <i>A Miniaturized Triple Band DGS Implantable Antenna for Biotelemetry</i>

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 3D: Wireless Communication Systems and Technologies

Session chair: **Omar Alzoubi**

Room D

16:30-18.00	Jingwei Wu , Benqing Guo, Huifen wang, Haifeng Liu	314 <i>A 2.4 GHz 87 uW Low-Noise Amplifier in 65nm CMOS for IoT applications</i>
	P Venkata Naveen Kumar, Yashwanth D, Venkata Rakesh J, P Veerakarathik, Shanidul Hoque	337 <i>Link Maintenance Probability for Pool based Spectrum Handoff in Cognitive Radio Networks</i>
	Haifeng Liu, Benqing Guo, Huifen Wang, Jingwei Wu	340 <i>A Ka-band Vector-Sum Phase Shifter in 65nm CMOS for Phased Array Receivers</i>
	Mohd Shafarudin Osman , Azizul Azizan, Khairul Nizam Hassan, Hadhrami Ab. Ghani, Noor Hafizah Hassan, Fitri Yakub, Salwani Mohd Daud, Liza Abdul Latiff	373 <i>BLE-based Real-time Location System Integration with Hospital Information System to Reduce Patient Waiting Time</i>
	Mohammad Tawhid Kawser, Md. Monzurul Haque , Md. Samiur Rahman, Zubayer Kabir Eisham	398 <i>Estimation of Outdoor to Indoor Loss Variation Pattern within 5G Spectrum and Loss Model Comparison</i>
	Omar Alzoubi	413 <i>Improving the Performance of MIMO Mobile-to-Mobile Fading Channel Simulators Using New Parameterization Methods</i>

BREAKFAST / LUNCH / DINNER/TEA BREAK



PARALLEL SESSIONS 4

Parallel Session 4A: Neural Networks, Deep Learning and Intelligent Systems

Session chair: **Muhammad Imtiaz**

Room A

18.15-20.15	Bipasha Kundu , Dr. Desineni Subharram Naidu	20 <i>Classification and Feature Extraction of Different Hand Movements from EMG Signal using Machine Learning based Algorithms</i>
	Gulnur Ozturk Sahinkaya , Damla Ereğ, Hilal Yaman, Mehmet S. Aktas	40 <i>On the Data Analysis Workflow for Predicting Customer Churn Behavior in Cargo and Logistics Sectors: Case Study</i>
	Daniel Abujabra Merege , Rafael Pillon Almeida	44 <i>Natural Language Processing to forecast 2020 Chilean national plebiscite results: a Daoura project</i>
	Omer Yigit Astepe , Ali Seymen Alkara	50 <i>Predicting Maintenance Priority with AI</i>
	Ulku F. GURSOY , Muhammet Kurulay, Mehmet S. Aktas	56 <i>Customer Churn Behavior Predicting Using Social Network Analysis Techniques: A Case Study</i>
	Doruk Eren Aktas , Memet S. Aktas	63 <i>Sequential Rule Mining on the Student Behavior Data of an E-Learning Platform in the Field of Financial Sciences: Case Study</i>
	Yasmeen shaheer Alslman , Anas Abu Taleb	64 <i>Exchanging Digital Documents Using Blockchain Technology</i>
Tanmay U. Sane , Tanuj U. Sane	431 <i>Artificial Intelligence and Deep Learning applications in Crop Harvesting Robots - A Survey</i>	

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 4B: Power Generation and Renewable Energy Systems

Session chair: **Gama Ali**

Room B

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	Valentyn Isaiev , Oleh Velychko	21 <i>Characterization of Three-Phase Calibrator for Traceable Measurement of Voltage Unbalance</i>
	Muhannad Alshareef	65 <i>A New Protection Scheme for Low Voltage DC Microgrids</i>
	Basma Gamal Mahmoud , Shady H. E. Abdel Aleem, Mahmoud Sayed	74 <i>Sine-Cosine Algorithm for Optimal Capacitor Allocation in Distribution Systems Operating Under Non-Sinusoidal Conditions</i>
	Gama Ali , Hamed H. Aly, Timothy Little	108 <i>A Modified Ant Lion Optimization Technique for Economic Emission Dispatch Including Biomass</i>
	Gama Ali , Hamed H. Aly, Timothy Little	109 <i>Using HOMER software to investigate, size and apply renewable energy sources in a convention center in Sabratha, Libya</i>
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BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 4C: Networks Security and Reliability

Session chair: **Muhammad Ilyas**

Room C

18.15-20.15	Simon Winberg , Subha Singh	25 <i>Real-Time Event-driven Air Quality Inspection Framework for City-wide Pollution Level Monitoring</i>
	Sabryna Vendramin Fernandes , Tiago Rabelo Chaves, Marcos Aurelio Izumida Martins, Ricardo O. Brandao, Amadeu F. Macedo, Kennedy A. Martins	142 <i>Study of the Primary Substation Digitalization</i>
	Menachem Domb , Guy Leshem	202 <i>Rain Attenuation Prediction for 2.4-72GHz using LSTM, an artificial recurrent neural networks technology</i>
	Tariq Emad Ali , Ameer Hussein Morad, Mohammed A. Abdala	212 <i>Efficient Private Cloud Resources Platform</i>
	Turki Basher Alshammari , Ayedh S. alanazi	300 <i>Security Threats Against the Internet of Things at Home</i>
	Jitendra Goyal , Dr. Mushtaq Ahmed, Dr. Dinesh Gopalani	380 <i>Empirical Study of Standard Elliptic Curve Domain Parameters for IoT Devices</i>
	Hasan Mohamed Marah , Jawad Rashid Khalil, Asem Elarabi, Muhammad Ilyas	476 <i>DMVPN Network Performance Based on Dynamic Routing Protocols and Basic IPsec Encryption</i>

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 4D: Software Engineering

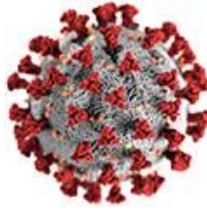
Session chair: **Maged Mikhail**

Room D

18.15-20.15	Alipbayev K.A, Yermoldina G.T, Bapishev A.M, Aden A.E	102 <i>Modernization of the information and analytical system of the crash areas of the Baikonur cosmodrome during the controlled descent of the spent stage of the launch vehicle</i>
	Apiwe Hotele, Simon Winberg , Ludwig Schwardt	107 <i>Immersion Cooling Monitoring and Prediction System for Meerkat Radio Astronomy Imager</i>
	Maged Mikhail , Vu Duong, Damian Podgorski	330 <i>The New Solution for Robotics Education</i>
	Yudi Guzman , Alexis Tavara, Rodolfo Zevallos, Hugo Vega	352 <i>Implementation of a Bilingual Participative Argumentation Web Platform for collection of Spanish Text and Quechua Speech</i>
	Joao Paulo Delgado Preti, Adriano Neres Araujo Souza , Evandro Cesar Freiberger, Tiago de Almeida Lacerda	367 <i>Monolithic to Microservices Migration Strategy in Public Safety Secretariat of Mato Grosso</i>
	Ivan Ostheimer , Mario Hercog, Bojan Bijelic, Denis Vranjes	284 <i>Efficient Integration Model of MAS and Blockchain for emergence of Self-Organized Smart Grids</i>
Michał Rogala , Jakub Gajewski	51 <i>Numerical and experimental analysis of bent tubular elements filled with porous material</i>	

BREAKFAST / LUNCH / DINNER/TEA BREAK





13 June 2020

PLENARY SESSION 3

Plenary Session 3: Keynote Speaker

Room A

11:00-11:30

Prof. Dr. Patrick S. P. Wang

Title- *Intelligent Pattern Recognition (IPR) and Applications to Imaging*

PARALLEL SESSIONS 5

Parallel Session 5A: Neural Networks, Deep Learning and Intelligent Systems

Session chair: **Mudassir Khan**

Room A

11.30-13.00	Md. Ferdous , Sk. Md. Masudul Ahsan	303 <i>Multi-Scale Safety Hardhat Wearing Detection using Deep Learning: A Top-Down and Bottom-Up Module</i>
	Josh Daniel L. Ong , Erinn Giannice T. Abigan, Luis Gabriel A. Cajucom, Patricia Angela R. Abu, Ma. Regina Justina E. Estuar	333 <i>Transfer Learning in Ensemble Convolutional Neural Networks Toward the Detection of Microscopic Fusarium Oxysporum</i>
	Abdelsalam Hamdi Abdelaziz , Yee Kit Chan, Voon chet koo	344 <i>Enhancement for License Plate Recognition using Image Super Resolution technique</i>
	Mustafa Abbas Abbood Albadr , Sabrina Tiun, Masri Ayob, Taj-Aldeen Naser Abdali, Aymen Fadhil Abbas	348 <i>Extreme Learning Machine for Automatic Language Identification Utilizing Emotion Speech Data</i>
	Ashwathy Bhooshan , Hari V S	377 <i>Recurrent Neural Network Estimator for Stock Price</i>
	Qianyu Cao, Weihong Han	11 <i>Key Technologies and Application of Big Data Analysis</i>

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Parallel Session 5B: Signal and Image Processing Techniques

Session chair: **Maria Murad**

Room B

11.30-13.00	Koki Takenaka , Kenji Ozawa	32 <i>Suppression of Multiple Noises with Different Directions of Arrival Using Instantaneous Spectral Subtraction</i>
	Anila Faraz Khan , Abdul Jalil, Ihsan ul Haq, Syed Ihtesham Hussain Shah	43 <i>Automatic Localization of Macula and Identification of Macular Degeneration in Retinal Fundus Images</i>
	Maria Murad , Abdu Jalil, Muhammad Bilal, Shahid Ikram, Ahmad Ali, Khizer Mehmeed, Baber Khan	72 <i>Gaussian-Radial Under-Sampling Based CSMRI Reconstruction Using A Modified Interpolation Approach</i>
	Shinichi Sugahara , Mikio Mori	250 <i>Feasibility of using Air-conducted and Bone-conducted Sounds Transmitted through Eyeglasses Frames for User Authentication</i>
	Muhammad Yudhi Rezaldi , Budi Nugroho, Siti Kania Kushadiani, Abdurrakhman Prasetyadi, Agus Men Riyanto, Nuraini Rahma Hanifa, Ambar Yoganingrum	379 <i>A Systematical Review of the Tsunami Hazards Modelling</i>



Parallel Session 5C: Advanced Electronics

Session chair: **Zubaida Yusoff**

Room C

11.30-13.00

Guoxiang Sun, Lanxi Li,
Weidong Ding, Saikang Shen

167 *Bipolar Solid-State LTD Based on Push-pull Circuit*

Saikang Shen, Guoxiang Sun,
Weidong Din, Lauxi Li

168 *Design and Application of Repetitive Nanosecond Pulse Generator Based on Avalanche Transistors*

Fajar Suryawan

207 *FPGA-based Geometric Test Pattern Generator*

Bui Duc An, Nguyen Hoai
Phong, Le Minh Phuong

306 *Designing a High Efficiency Flyback LED Driver with Unity Power Factor*

K Sarangam, N bheema rao

433 *A Second-Order Switched Capacitor Passive Sigma Delta Modulator with Bootstrapped Switches in FinFET Technology*

Khirullah Abdul Hamid, Maria
Abu Bakar, Azman Jalar, Aiman
Hakim Badarisman

324 *Incorporation of big data in package corrosion problem-solving methodology in the semiconductor*



Parallel Session 5D: Intelligent Robotics and Control Systems

Session chair: **Muhammad Ashraf**

Room D

11.30-13.00	Guoxi Xu, Xiaoran Gong	6 <i>Research on the Forces of the Landing Stage of Recoverable Rockets Based on Machine Learning Methods</i>
	Dan Zhu , Yang Jiang	230 <i>Thruster Fault Diagnosis in Autonomous Underwater Vehicle Based on Bayesian network</i>
	Duc Tran Minh, Phuoc Vo Tan	257 <i>Flatness-Based Single Tank Water Level Control Under Actuator Constraint</i>
	An Truong-Duc-Duy, Phuoc Vo Tan	258 <i>A Python Framework for Model-Based Design, Commission and Monitor the Thermal Process</i>
	Chen Zheng, Looi, Danny Wee Kiat , Ng	370 <i>A Study on the Effect of Parameters for ROS Motion Planer and Navigation System for the Navigation of an Indoor Robot</i>
	Kadda Mostefaoui , Youcef Dahmani, Bendaoud Mebarek, Mohamed Goucem	368 <i>Using NN-DEVS approach for modelling and simulation of imperfect systems: Application to the reactive navigation of Autonomous Robot</i>



PARALLEL SESSIONS 6

Parallel Session 6A: Neural Networks, Deep Learning, and Intelligent Systems

Session chair: **Muhammad Arif Khan**

Room A

13:30-15.15	Sulayman Ahmed , Mondher Frikha, Taha Darwassh Hanawy Hussein, Javad Rahebi	360 <i>Face Recognition System using Histograms of Oriented Gradients and Convolutional Neural Network based on with Particle Swarm Optimization</i>
	Aleksey Zelenov , Vladimir Krylov	365 <i>Deep active inference in control tasks</i>
	Alexander Demidovskij	422 <i>Exploring Neural Turing Machines Applicability in Neural-Symbolic Decision Support Systems</i>
	Imral Gungor , Bulent Gursel Emiroglu, Sait Ali Uymaz, Mustafa Servet Kiran	424 <i>An Application of Tree Seed Algorithm on Optimizing 50 and 100 Dimensional Numeric Functions</i>
	Zair Bouzidi , Abdelmalek Boudries, Mourad Amad	443 <i>Enhancing Crisis Management because of Deep Learning, Big Data and Parallel Computing Environment: Survey</i>
	Taha Darwassh Hanawy Hussein , Mondher Frikha, Sulayman Ahmed, Javad Rahebi	457 <i>Ambulance vehicle routing using BAT Algorithm</i>
	Dimitris Ziouzos, Nikolaos Baras, Minas Dasygenis, Constantinos Tsanaktsidis	475 <i>Enhancing Technological Development Using Novel Internet of Things Solutions: The Smart-Bin Project</i>

BREAKFAST / LUNCH / DINNER/TEA BREAK



Parallel Session 6B: Power Generation and Renewable Energy Systems

Session chair: **Mukesh Kumar**

Room B

13:30-15.15	Hanane Yatimi, Youness Ouberri , Rim Marah, Elhassan Aroudam, Sara Chahid	259 <i>Design of an Incremental Conductance Maximum power point tracking Controller based on Automation PLC for PV Applications</i>
	Tonushree Dutta , Md. Tawsif Rahman Chowdhury, Anowarul Azim	349 <i>Enhancement in Optical and Electrical Properties of Si and GaAs Solar Cells Using Metal-oxide Anti-reflective Coatings</i>
	Thiruvankadam Srinivasan , Se-Myong Chang, In-Ho Ra	374 <i>Economic Emission Dispatch with the Presence of Large Scale Wind and PV Plants Considering Valve Point Effects and Variable Demand</i>
	Fabliha Ahmed , Tareq Aziz	383 <i>A Trajectory Sensitivity Index Based Approach to Accelerate Post-Fault Voltage Recovery in Microgrid</i>
	Konstantinos Fiorentzis , Alexandros Paspatis, Antonis Tsikalakis, Emmanuel Karapidakis	386 <i>Utilization of Demand Side Generation in Secondary and Tertiary Reserve Mechanisms of Island Power Systems</i>
	Mukesh Kumar , Ram Krishan	399 <i>Non-Linear Auto-Regressive Modeling based Day-ahead BESS Dispatch Strategy for Distribution Transformer Overload Management</i>

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Parallel Session 6C: Mixed Topics

Session chair: **Fatimah Zahra Ali**

Room C

13:30-15.15	Irina Golub , Evgeny Boleev	208 <i>Determination of Losses in Distribution Networks by Smart Meter Measurements</i>
	Sanchari Deb	227 <i>A Novel Data Driven Methodology for Charging Hotspots Computation for the city of Helsinki</i>
	Yasir Aljumah , Syed Sohail Ahmed	234 <i>A Novel Approach to Get Awareness in Saudi Arabia Regarding Phishing Attacks</i>
	Stephan Sprenger, Andreas Funk , Jaclyn Balthasar, Torsten Lubenow	239 <i>Improving thermal and chemical stabilities of electronic epoxies using polysiloxane copolymers</i>
	Saleh K. Ahmad, Riyadh Z. Sabry , Chandima Gomes	294 <i>Improving the grounding system by adding bentonite to reduce the potential distribution</i>
	Fehmida Usmani, Ihtesham Khan , Mehek Siddiqui, Mahnoor Khan, Muhammad Bilal, M Umar Masood, Arsalan Ahmad, Muhammad Shahzad, Vittorio Curri	389 <i>Evaluating Cross-feature Trained Machine Learning Models for Estimating QoT of Unestablished Lightpaths</i>
	Suleyman Adak, Hasan Cangı , Ahmet Serdar Yilmaz	254 <i>Thevenin Equivalent of Solar PV Cell Model and Maximum Power Transfer</i>

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PLENARY SESSION 4

Plenary Session 4: Keynote Speaker

Room A

15:30-16:00

Dr. Fazel Mohammadi

Title- *Cyber-Physical Systems Security for Smart Grid Infrastructure*

PARALLEL SESSIONS 7

Parallel Session 7A: Neural Networks, Deep Learning, and Intelligent Systems

Session chair: **Ahmet Anil MUNGEN**

Room A

16.00-17.45	Zahra Soltani , Kresten Kjaer Soerensen, John Leth, Jan Dimon Bendtsen	214 <i>Robustness analysis of PCA-SVM model used for fault detection in supermarket refrigeration systems</i>
	Fatima Zahra EL bouni, Tareq EL hariri, Chaime Zouitni , Ilham Ben Bahya, Hafida EL aboui, Aziza EL Ouazizi	218 <i>Bird Image Recognition And Classification Using IBM Cloud And Cnn</i>
	Fahad Radhi Alharbi , Denes Csala	219 <i>Short-Term Solar Irradiance Forecasting Model Based on Bidirectional Long Short-Term Memory Deep Learning</i>
	Rafed Adnan Jaleel , Iman Mohammed Burhan, Ahlam Mohaisen Jalookh	267 <i>A Proposed Model for Prediction of COVID-19 Depend on K-Nearest Neighbors Classifier: Iraq Case Study</i>
	Ahmet Anil MUNGEN , Iclal CETIN TAS	285 <i>An Investigation about Traffic Prediction by Using ANN and SVM Algorithms</i>
	Ashhadul Islam , Samir Brahim Belhaouari	353 <i>Class Aware Auto Encoders for Better Feature Extraction</i>
Mazhar B Tayel, Ahmed F. Kishk	320 <i>Proposed Deep Learning Classification and Ultra-Wide Band Tensors for Localization of Breast Tumor</i>	

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Parallel Session 7B: Mixed Topics

Session chair: **Beatriz Batista Cardoso**

Room B

16.00-17.45	Roman Volianskyi , Vitaliy Kuznetsov, Valeriy Kuznetsov, Oleksandr Ostapchuk, Viktor Artemchuk, Nina Volianska	129 <i>Modeling of Dynamical Objects with Hypercomplex Numbers for Railway Non Traction Consumers with Renewable Energy Sources</i>
	Oleksiy Bobrov, Valeriy Kuznetsov, Oleksandr Romanovskiy, Dmytro Tsyplenkov, Vitaliy Kuznetsov , Oleksandr Ostapchuk, Petro Hubsnyi	130 <i>Optimum parameters of electromechanical system model "electrical grid-drive-compressor-pneumatic network"</i>
	Vasyl Stopkin, Valeriy Kuznetsov, Vitaliy Kuznetsov , Anatolliy Nikolenko, Mykola Babyak, Petro Hubsnyi	135 <i>Model of Two-Mass Electric Drive of DC Electric Locomotive with the Full Order Observer</i>
	Beatriz Batista Cardoso , Leticia Lagni Dagnese, Marcos Aurelio Izumida Martins, Kleber Duarte Tomaz, Silvia de Francisci	144 <i>The use of GPR technologies for utility mapping in underground distribution grid conversion – Brazil use case</i>
	Daniel Hufnal, Theodore Johnson , Caglar Yilderim, Damian Schofield	271 <i>Impact of VR and Desktop Gaming on Electroencephalogram (EEG) Ratings</i>
	Eluwumi Buraimoh , Ritesh Ajoodha, Kershree Padayachee	280 <i>Importance of Data Re-sampling and Dimensionality Reduction in Predicting Student's Success</i>
	Mohamed Elsakhawy , Michael Bauer	30 <i>Performance Analysis of Serverless Execution Environments</i>

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Parallel Session 7C: Mixed Topics

Session chair: **Tiago Sutili**

Room C

16.00-17.45	Hasneen Zaman , Narottam Das	342 <i>Analysis for the Improvement of IEC 61850 Based Substation Communications Using OPNET</i>
	Nael hussein , Kamaruzzaman Seman, Fitri Maya Puspita, Khairi Abdul Rahim, Mus'ab Sahrim	412 <i>Improved Model of Internet Pricing Incentive Mechanism based on Multi bottleneck Links in Multi QoS Networks</i>
	Savio S.H Tse, Ming-Chyuan Low	464 <i>Online Searching for 3-Dimensional Data in Sublinear Time</i>
	Shahzad Alam, Muhammad Umar Masood, Ihtesham Khan , Arsalan Ahmad, Salman Ghafoor, Vittorio Curri	405 <i>Modeling Off-line Routing and Spectrum Allocation Problem in Elastic Optical Network</i>
	Lorant Andras Szolga, Mihai Boca	438 <i>LED Display for Timetables Controlled by IoT</i>
	Lubabalo Buwa , Zelalem Shibeshi, Alferdo Terzoli	460 <i>An application to support end-users of wi-fi hotspots in the township of Makhanda</i>
	Tiago Sutili , Pedro Ferreira Pinto Neto, Fabio Donati Simoes, Sandro Marcelo Rossi, Gabriel Junco Suzigan, Rafael Carvalho Figueiredo	338 <i>Unrepeated Optical Systems Design based on Iterative Channel Pre-Emphasis Optimization</i>

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PARALLEL SESSIONS 8

Parallel Session 8A: Antennas, Propagation and Radar Systems

Session chair: **Smrity Dwivedi**

Room A

18.00-19.45	Utkarsh Gupta, Smrity Dwivedi	181 <i>Frequency Reconfigurable Antenna Using Metamaterial Split Ring Resonators for Smart Applications</i>
	Kaushallya Adhikari, Tyler Trosclair	203 <i>Minimum Norm Method for Linear and Planar Sparse Arrays</i>
	M. Asfar Saeed , Umaima Ahmed	301 <i>Rectangular loop mm-Wave antenna for wearable applications</i>
	Nurhaifa Alya Roslan, Anis Afrina Amiruddin, Ezri Mohd, Noorsaliza Abdullah	315 <i>Complementary Folded Arm (CFA) Split Ring Resonator for Dielectric Material Characterization</i>
	Solomon Mingle	446 <i>Frequency Scannable Leaky-Wave Antenna Design for Remote Vital Signs Radar Application at 60 GHz Band</i>
	Mounia Djoudi , Mohamed Lamine Tounsi, Noureddine Ababou, Mustapha C.E. Yagoub	462 <i>Analysis of Electromagnetic Properties of EBG Structures for Directional Planar Antennas</i>

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Parallel Session 8B: Signal and Image Processing Techniques

Session chair: **Daniel Sartori**

Room B

18.00-19.45	Iyad F. Jafar , Khalid A. Darabkh	76 <i>An Improved Reversible Data Hiding Algorithm for Image Contrast Enhancement</i>
	Giuseppe Bonifazi, Giuseppe Capobianco, Riccardo Gasbarrone , Silvia Serranti	15 <i>Cold chain maintenance evaluation of pre-cooked pasta by Visible and Short Wave InfraRed Spectroscopy</i>
	Harmandeep Singh Gill , Baljit Singh Khehra	139 <i>Minimum cross Entropy Thresholding based apple image segmentation using Teacher Learner Based Optimization Algorithm</i>
	Bilal Djmal Eddine Cherif , Azeddine Bendiabdellah, Sara Seninete	255 <i>Induction Motor Diagnosis with Broken Rotor Bar Faults Using DWT Technique</i>
	Muhammad Salman Kabir , Ikechi Kalu Ndukwe, Engr. Zainab Shahid Awan	391 <i>Deep Learning Inspired Vision based Frameworks for Drone Detection</i>
	Saman Saadizadeh	417 <i>Breast Cancer Detection in Thermal Images Using GLRLM Algorithm</i>
	Daniel Sartori , Kaushallya Adhikari	245 <i>Product Processing for Tapered Sparse Arrays</i>

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Parallel Session 8C: Wireless Communication Systems and Technologies

Session chair: **Aleem Khaliq**

Room C

	Augustine O. Nwajana , Eugene A. Ogbodo, Ifueko I. Imasuen	81 <i>Formulation for Energy Distribution in T-Junctions for Diplexer Design</i>
	Eugene A. Ogbodo, Augustine O. Nwajana	84 <i>A Bandpass Filter Using Edge Coupled and Direct Coupled Techniques</i>
18.00-19.45	Arian Nowbahari , Luca Marchetti, Mehdi Azadmehr	246 <i>A Delay-Based Wake-Up Receiver for Wireless Sensor Networks</i>
	Fadi Elghitani , Eman Serag, Ibrahim Fayed	357 <i>WiFi Performance Estimation for Voice Services</i>
	Feriel Guidoum , Mohamed Lamine Tounsi, Tan-Phu Voung, Noureddine Ababou, Mustapha C.E. Yagoub	366 <i>Design of FSS Filter for 5G applications</i>
	Nyandika , Kimwele, Okeyo	388 <i>Handover Enhancement in wireless communication-Based Train Control System</i>
	Mikko Vehkaperä , Mika Hoppari, Jani Suomalainen, Jussi Roivainen, Seppo J. Rantala	397 <i>Testbed for Local-Area Private Network with Satellite-Terrestrial Backhauling</i>

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CLOSING SESSION

Session 00: Closing Session – Closing Remarks by Conference Chairs

Room A

20:00-20:30

Prof. Dr. Mardeni Bin Roslee, Multimedia University, Malaysia
Dr. Yunus UZUN, Aksaray University, Turkey
Dr. Shafqat Ullah Khan, University of Buner, Pakistan
Dr. Athar Waseem, International Islamic University, Pakistan

Hope to see you “physically” next time

Upcoming Conference

*Please note that IEEE Approved 7th International Conference on
Engineering and Emerging Technologies - ICEET 2021*

(www.iceet.net)

will take place in Istanbul, Turkey.

on 27-28 October, this year.

Thank you very much for your contributions.

