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IEEE IEMCON 2021

The 12th Annual IEEE Information Technology, Electronics and Mobile Communication Conference

Virtual Conference, Vancouver, Canada
27th – 30th October, 2021

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

TECHNICAL SCHEDULE
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All the timings are given in Pacific Daylight Time (PDT (UTC–7))

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All the timings are given in Pacific Daylight Time (PDT (UTC−7))

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	KEYNOTE 8: DIGITALIZATION OF SOFTWARE DEVELOPMENT VIA VIRTUAL REALITY	8:45 AM – 9:30 AM	24
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All the timings are given in Pacific Daylight Time (PDT (UTC-7))

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	KEYNOTE 11: STORAGE SYSTEMS FOR THE EDGE	**8:45 AM – 9:30 AM**	**33**
	KEYNOTE 12: DEEP LEARNING OF 3D GEOMETRY MADE EASY	**9:30 AM - 10:15 AM**	**33**
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	SESSION 26: NETWORK ARCHITECTURES , COGNITIVE RADIO	**10:30 AM - 11:45 AM**	**35**
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All the timings are given in Pacific Daylight Time (PDT (UTC-7))

DAY 1: 27th October 2021

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8:00 AM - 8:30 AM	**INAUGURATION**	
8:30 AM – 9:15 AM	KEYNOTE ADDRESS BY **BIPIN C. DESAI** (PROFESSOR, CONCORDIA UNIVERSITY) TITLE OF TALK: CLOSED VS OPEN SYSTEMS	**https://zoom.us/j/6319961197**
9:15 AM - 10:00 AM	KEYNOTE ADDRESS BY **PETER VAN BEEK** (PROFESSOR, UNIVERSITY OF WATERLOO) TITLE OF TALK: DATA ANALYSIS USING BAYESIAN NETWORKS	
10:00 AM - 10:45 AM	KEYNOTE ADDRESS BY **VIKAS SHARMA** (SR: PRINCIPAL ENGINEER AND SR: DIRECTOR, PATHFINDING, INTEL R&D) TITLE OF TALK: DATA AND ALGORITHMS HELP LEADERS SOLVE PROBLEMS	

10:45 AM - 11:00 AM	**BREAK**

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

PARALLEL SESSIONS

SESSION 1: COMPUTER NETWORK

SESSION CHAIR: HAKDURAN KOC (UNIVERSITY OF HOUSTON - CLEAR LAKE, USA)
SESSION TIME: 11:00 AM – 12:30 PM (DAY 1: 27th October 2021)
PARTICIPATION LINK: https://zoom.us/j/4109219194

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM - 11:15 AM	1570761931	DDoS Explainer Using Interpretable Machine Learning	Saikat Das (Midwestern State University, USA); Sajjan Shiva (University of Memphis, USA); Namita Agarwal (Fedex Services, USA)
11:15 AM - 11:30 AM	1570759379	Embedding Emojis to Redefine Gaze-Point and Scan-Path in a Visual Centre Field	Fatima Isiaka (Sheffield Hallam University, United Kingdom (Great Britain)); Abdullahi Audu and Mustafa Ahmed Umar (Nasarawa State Univerisity, Keffi, Nigeria)
11:30 AM – 11:45 AM	1570764788	NetBot - an Automated Router Hardening Solution for Small to Medium Enterprises	Dhanushi N: Wickramarathna Kasthuriarachchi, Gayan Perera, Kaviru Samarasekara and Ishanthi Hewamanna (SLIIT, Sri Lanka); Kavinga Abeywardena (Sri Lanka Institute Of Information Technology, Sri Lanka); Kanishka Yapa (Sri Lanka Institute of Information Technology, Sri Lanka)
11:45 AM - 12:00 PM	1570754096	The Application of the Graph Laplacian in Network Forensics	Connor McGee, Jing Guo and Zhaohong Wang (California State University, Chico, USA)
12:00 PM -12:15 PM	1570762573	Investigation of Bandwidth Reservation for Segment Routing	Amin Qassoud and Chung-Horng Lung (Carleton University, Canada)
12:15 PM - 12:30 PM	1570764768	"Roomeet" Communication Tool to Support Online Learning Management During the Covid-19 Pandemic	Bambang Budi Wiyono, Erika Septia Eni, Muhamad Pradana, Arumia Fairuz Husna and Mellanie Nadya Haq (Universitas Negeri Malang, Indonesia)

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SESSION 2: COMPUTATION , ALGORITHMS AND NETWORK SECURITY			
SESSION CHAIR: WOLFGANG BEIN (UNIVERSITY OF NEVADA, LAS VEGAS, USA)			
SESSION TIME: 11:00 AM - 12:30 PM (DAY 1: 27th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/6626883577			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
11:00 AM - 11:15 AM	1570762228	BlindAid - Android-Based Mobile Application Guide for Visually Challenged People	Gagani Senarathne, Dilpri Punchihewa and Dilini Ishara Liyanage (Sri Lanka Institute of Information Technology, Sri Lanka); Geethanjali Wimalaratne (Senior Lecturer & Sri Lanka Institute of Information Technology, Sri Lanka); Hansi De Silva (Sri Lanka Institute of Information and Technology, Sri Lanka)
11:15 AM - 11:30 AM	1570762103	Neighborhood Search in Differential Evolution for Solving Trusted Ridesharing Problems	Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)
11:30 AM – 11:45 AM	1570760619	Database Optimization of Fingerprint-Based Indoor Positioning System Using Genetic Algorithm	Balbir(Bob) Gill (British Columbia Institute of Technology, Canada); Mohammad Hassan Nikkhah Babaei Babaei (Iran University of Science and Technology, Canada); Saeed Ebadollahi (IUST, Iran)
11:45 AM - 12:00 PM	1570762627	Document Clustering Analysis Based on Hybrid Cuckoo Search and K-Means Algorithm	Saida Ishak Boushaki (University M'Hammed Bougara Boumerdes, Algeria); Omar Bendjeghaba (University M'Hammed Bougara of Boumerdes, Algeria); Noureddine Brakta (University of M'hamed Bougarra, Boumerdes, Algeria)
12:00 PM -12:15 PM	1570764540	Machine Learning Algorithms and Their Application in Classifying Cyber-Attacks on a Smart Grid Networks	Adedayo Aribisala, Mohammad S Khan and Ghaith Husari (East Tennessee State University, USA)
12:15 PM - 12:30 PM	1570764641	Security for Internet OF Things-IOT	Sanaa Abdeldayem (Alexandria University, Egypt)

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SESSION 3: COMPUTER NETWORK			
SESSION CHAIR: MUATH OBAIDAT (CITY UNIVERSITY OF NEW YORK, USA)			
SESSION TIME: 11:00 AM - 12:15 PM (DAY 1: 27th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/9587888372			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
11:00 AM - 11:15 AM	1570748777	Web and Mobile Application Based Missing Query Platform (Lost and Found BD)	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
11:15 AM - 11:30 AM	1570762562	Precise Estimation of Local Probabilities for Bayesian Attack Graph Analysis	Arnab Paul Joy, Mosarrat Jahan, Upama Kabir and Sanjoy Kumar Mahato (University of Dhaka, Bangladesh)
11:30 AM – 11:45 AM	1570762123	Using CNN to Optimize Traffic Classification for Smart Homes in 5G Era	Hung-Chin Jang and Tsung-Yen Tsai (National Chengchi University, Taiwan)
11:45 AM - 12:00 PM	1570762555	An Expermental Study on Load Balancing for a Software Defined Network Based Virtualized Network Functions Platform	Bhanu Senevirathne, Windhya Rankothge, Narmada Gamage, Tharani Ariyawansa and Haritha Dewwiman (Sri Lanka Institute of Information Technology, Sri Lanka); Ahamed Suhail (Sri Lanka Institute of Information Technologies, Sri Lanka)
12:00 PM -12:15 PM	1570762223	Using Deep Q-Network in Bandwidth Allocation of Smart Homes	Hung-Chin Jang and Chr-Jr Chiu (National Chengchi University, Taiwan)

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SESSION 4: IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY			
SESSION CHAIR : YUAN XING (UNIVERSITY OF WISCONSIN-STOUT, USA)			
SESSION TIME: 11:00 AM - 12:30 PM (DAY 1: 27th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/4897406939			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM - 11:15 AM	1570764848	Efficient FPGA Implementation of Parameterized Real Time Color Based Object Tracking	Shahnam Mirzaei and Robert Morris (California State University, Northridge, USA)
11:15 AM - 11:30 AM	1570761210	Face Mask Detection: A Real-Time Android Application Based on Deep Learning Modeling	Hardik Sharma, Harshini Sewani, Rajat Garg and Rasha Kashef (Ryerson University, Canada)
11:30 AM – 11:45 AM	1570764828	An Active Learning Model for Seagrass Detection in Remote Sensing Imagery	EmilyWu (Princess Anne High School, USA); Kazi Aminul Islam and Jiang Li (Old Dominion University & Electrical and Computer Engineering, USA); Cindy Lebrasse(North Carolina State University, USA); Richard Zimmerman and Victoria Hill (Old DominionUniversity, USA);
11:45 AM - 12:00 PM	1570764176	Marine Vehicle Tracking Using Agile Maritime IoTs	Oleksandr Zadorozhnyi and Pavlos Tsiantis (University of Nicosia Research Foundation, Cyprus); Erricos Michaelides and Christos C Constantinou (Cyprus Marine and Maritime Institute, Cyprus); Ioannis Kyriakides and Ilias Alexopoulos (University of Nicosia Research Foundation, Cyprus); Ehson Abdi and Jerald Reodica (Cyprus Subsea Consulting and Services LTD, Cyprus); Daniel Hayes (University of Cyprus, Cyprus)
12:00 PM -12:15 PM	1570764678	A Lightweight Underwater Object Detection Model	Cong Tan (Hainan University, China)
12:15 PM - 12:30 PM	1570746443	Hand Gesture Based Virtual Blackboard Using Webcam	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

12:30 PM – 12:45 PM	BREAK

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SESSION 5: IMAGE PROCESSING , MULTIMEDIA TECHNOLOGY AND DISTRIBUTED SYSTEMS			
SESSION CHAIR : JAIMIE KELLEY (WITTENBERG UNIVERSITY, USA)			
SESSION TIME: 12:45 PM – 2:15 PM (DAY 1: 27th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/4109219194			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570749075	Convolutional Neural Network Based Skin Cancer Detection (Malignant Vs Benign)	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:00 PM – 1:15 PM	1570764561	I-Police - an Intelligent Policing System Through Public Area Surveillance	Jayakody Arachchilage Don Chaminda Anuradha Jayakody (Curtin University Technology & Sri Lanka Institute of Information Technology, Sri Lanka); Shashika Lokuliyana (Sri Lanka Institute of Information Technology, Sri Lanka); Kolitha K: Dasanayaka (Sri Lanka Institute of Information Technology & SLIIT, Sri Lanka); Pasindu A: Iddamalgoda, Isuri Ganepola and Anupama Dissanayake (Sri Lanka Institute of Information Technology, Sri Lanka)
1:15 PM – 1:30 PM	1570759661	A Medical Imaging Review for COVID-19 Detection and Its Comparison to Pneumonia	Blake D Bryant and Muhammad R Abid (Florida Polytechnic University, USA)
1:30 PM – 1:45 PM	1570759662	Survey of Face Liveness Detection for Unsupervised Locations	Derek T Apgar and Muhammad R Abid (Florida Polytechnic University, USA)
1:45 PM - 2:00 PM	1570762549	Bengali License Plate Recognition From Noisy Video Footage Using Deep Learning	Mahfuzur Rahman Chowdhury, Muhammad Shahriar, Esrat Meem, Sheikh Muhammad Hossain and Md. Golam Rabiul Alam (BRAC University, Bangladesh)
2:00 PM – 2:15 PM	1570762553	Siamese Network Based Pulse and Signal Attribute Identification	Ameya Govalkar and Kiran George (California State University, Fullerton, USA)

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TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
		SESSION 6: SIGNAL DETECTION AND PROCESSING	
		SESSION CHAIR : NOUREDDINE CHABINI (ROYAL MILITARY COLLEGE OF CANADA)	
		SESSION TIME: 12:45 PM – 2:15 PM (DAY 1: 27th October 2021)	
		PARTICIPATION LINK: https://zoom.us/j/6626883577	
12:45 PM – 1:00 PM	1570764878	Impact of Fractal Musical Signals on the Human Brain: A Proposed EEG Study	Neha Batra (Manav Rachna International Institute of Reseach & Studies & Manav Rachna University, India); Sachin Lakra (Mru, India)
1:00 PM – 1:15 PM	1570755790	A Data-Driven Hybrid Optimization Based Deep Network Model for Short-Term Residential Load Forecasting	Shadman Sakib (Leading University, Bangladesh & International University of Business Agriculture and Technology, Bangladesh); Khan Md. Hasib (Ahsanullah University of Science and Technology & BRAC University, Bangladesh); Ihtyaz Kader Tasawar and Abyaz Kader Tanzeem (BRAC University, Bangladesh); Md: Fahim Arefin (University of Dhaka, Bangladesh); Saharul Islam (Dhaka University of Engineering & Technology, Bangladesh); Mohammad Shafiul Alam (Ahsanullah University of Science and Technology, Bangladesh)
1:15 PM – 1:30 PM	1570760953	BP Polar-Decoding Without SNR Estimation	Si-Yu Zhang (Beijing Information Science and Technology University, China)
1:30 PM – 1:45 PM	1570760882	Development of Spectral Speech Features for Deception Detection Using Neural Networks	Muhammad S. Ullah and Sinead V Fernandes (Florida Polytechnic University, USA)
1:45 PM - 2:00 PM	1570763581	Agile Target Tracking Based on Greedy Information Gain	Ioannis Kyriakides (University of Nicosia Research Foundation, Cyprus)
2:00 PM – 2:15 PM	1570760519	Smartphone Mode Detection for Positioning Using Inertial Sensor	Balbir(Bob) Gill (British Columbia Institute of Technology, Canada); Zohreh Karimi (Kharazmi, Iran); Navid Heydarishahreza (Iran University of Science and Technology, Iran); Saeed Ebadollahi (IUST, Iran)

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	SESSION 7: SOFTWARE ENGINEERING		
	SESSION CHAIR: HEBA ELGAZZAR (MOREHEAD STATE UNIVERSITY, USA)		
	SESSION TIME: 12:45 PM – 2:15 PM (DAY 1: 27th October 2021)		
	PARTICIPATION LINK: https://zoom.us/j/9587888372		
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:45 PM – 1:00 PM	1570762040	Tievs: Classified Advertising Enhanced Using Machine Learning Techniques	Dhanuja Ranawake, Savandi Subhartha Bandaranayake, Ravihari Jayasekara and Imashi Madhushani (Sri Lanka Institute of Information Technology, Sri Lanka); Manori P Gamage (SLIIT, Sri Lanka); Suriyaa Kumari (Sri Lanka Institute of Information Technology, Sri Lanka)
1:00 PM – 1:15 PM	1570762287	Comparative Analysis of SPL-Specific Genetic Algorithm and XML Filtering Technique for Multi-Tenant SaaS Configuration Management	Azadeh Etedali, Chung-Horng Lung and Samuel Ajila (Carleton University, Canada)
1:15 PM – 1:30 PM	1570762521	PyPacho: A Python Library That Implements Parallel Basic Operations on GPUs	Juan Arcila-Moreno (Universidad EAFIT, USA); Diego Cifuentes-Garcia (Universidad EAFIT, Colombia); Francisco Correa Zabala (EAFIT, Colombia); Esteban Echeverri-Jaramillo and Christian Trefftz (Grand Valley State University, USA); Andres Zapata-Palacio (Universidad EAFIT, Colombia)
1:30 PM – 1:45 PM	1570747251	Effect of COVID-19 on Medical Intern Students: Bangladesh Perspective	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:45 PM - 2:00 PM	1570758633	Smart Agriculture Prediction System for Vegetables Grown in Sri Lanka	Rashmika M:M: Gamage , Hasitha Rajapaksa , Abhiman Sangeeth , Gimhani Hemachandra (Sri Lanka Institute of Information Technology, Sri Lanka)
2:00 PM – 2:15 PM	1570762116	A Blockchain-Based Software Always-On System	Hung-Chin Jang and Ying-Tzu Chen (National Chengchi University, Taiwan)

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\multicolumn{4}{c}{**SESSION 8: IMAGE PROCESSING AND MULTIMEDIA TECHNOLOGY**}
\multicolumn{4}{c}{**SESSION CHAIR : MALAY GANGULY (INSTITUTE OF ENGINEERING AND MANAGEMENT, INDIA)**}
\multicolumn{4}{c}{**SESSION TIME: 12:45 PM – 2:15 PM (DAY 1: 27th October 2021)**}
\multicolumn{4}{c}{**PARTICIPATION LINK: https://zoom.us/j/4897406939**}
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:45 PM – 1:00 PM	1570762593	Softmax Pooling for Super Visual Semantic Embedding	Zhixian Zeng (National University of Defense Technology, China)
1:00 PM – 1:15 PM	1570762713	Exploiting Deep Metric Learning for Mable Quality Assessment With Small and Imbalanced Image Data	George Sidiropoulos, Athanasios Ouzounis, George A Papakostas and Ilias Sarafis (International Hellenic University, Greece); Andreas Stamkos and Vassilis Kalpakis (Intermek A: B: E: E:, Greece); George Solakis (Solakis Antonios Marble S: A:, Greece)
1:15 PM – 1:30 PM	1570764568	Smart Assistant to Ease the Process of COVID-19 and Pneumonia Detection	Adeepa Akalanka, Kasuni Senevirathne, Vihanga Dias, Randima Nimantha and Bhagyanie Chathurika (Sri Lanka Institute of Information Technology, Sri Lanka); Chamari Silva (SLIIT | Sri Lanka Institute of Information Technology, Sri Lanka)
1:30 PM – 1:45 PM	1570764633	Augmented Reality Chemistry Lab	Lahiru Yasintha Menikrama, Mahima Amarasekara, Mandira Ramasinghe and Charuka Liyanagunawardhana (SLIIT, Sri Lanka)
1:45 PM - 2:00 PM	1570764640	Facial Action Unit Detection With ViT and Perceiver Using Landmark Patches	Duygu Cakir, Görkem Yılmaz and Nafiz Arica (Bahcesehir University, Turkey)
2:00 PM – 2:15 PM	1570764761	A Steganography-Based Fingerprint Authentication Mechanism to Counter Fake Physical Biometrics and Trojan Horse Attacks	Kavindya H Karunathilake, Shahan Mohamed, Shamry Mohamed, Dilmi De Silva, Amila Senarathne and Kanishka Yapa (Sri Lanka Institute of Information Technology, Sri Lanka)

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DAY 2: 28th October 2021

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8:00 AM - 8:45 AM	KEYNOTE ADDRESS BY **LUIS RUEDA** **(PROFESSOR, UNIVERSITY OF WINDSOR)** **TITLE OF TALK: HOW SELF-ORGANIZING MAPS EMPOWER CONVOLUTIONAL NEURAL NETWORKS**	
8:45 AM – 9:30 AM	KEYNOTE ADDRESS BY **IVAN V. BAJIĆ** **(PROFESSOR, SIMON FRASER UNIVERSITY)** **TITLE OF TALK: ERROR-RESILIENT COLLABORATIVE INTELLIGENCE**	**https://zoom.us/j/6319961197**
9:30 AM - 10:15 AM	KEYNOTE ADDRESS BY **WALID RJAIBI** **(IBM DISTINGUISHED ENGINEER, CTO FOR DATA SECURITY)** **TITLE OF TALK: THE NEXT FRONTIER FOR DATA SECURITY: PROTECTING DATA IN USE**	

10:15 AM – 10:30 AM	**BREAK**

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PARALLEL SESSIONS

SESSION 9: SIGNAL DETECTION AND PROCESSING ; NETWORK ARCHITECTURES			
SESSION CHAIR : TAREK EL SALTI (SHERIDAN COLLEGE, CANADA			
SESSION TIME: 10:30 AM – 12:00 PM (DAY 2: 28th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/4109219194			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
10:30 AM - 10:45 AM	1570762492	Design and Implementation of a Digital Radar Pulse Receiver on FPGA	Henry Lin, Cesar Martinez Melgoza, Illianna Izabal, Ameya Govalkar, Tyler Groom, Acacia Codding, Kayla J Lee, Kiran George and Alex Erdogan (California State University, Fullerton, USA)
10:45 AM - 11:00 PM	1570762522	Using EEG for the Analysis of Heat Stress on Quick Decision-Making	Javier De La Cruz, Douglas Shimizu and Kiran George (California State University, Fullerton, USA)
11:00 AM - 11:15 AM	1570764869	Using Concurrent fNIRS and EEG Measurements to Study Consumer's Preference	Shima Kaheh (California State University of Fullerton, USA); Maria Ramirez and Kiran George (California State University, Fullerton, USA)
11:15 AM - 11:30 AM	1570764767	Performance Evaluation of SD-WAN Deployment for XYZ Enterprise Company in Indonesia	Gemilang Kurniawan Soejantono (Telkom Univerity & Regulation and Management of Telecommunication, Indonesia); Muhammad Imam Nashiruddin and Sofia Hertiana (Telkom University, Indonesia); Muhammad Adam Nugraha (Peruri Research Institute for Authenticity (PRIfA), Indonesia)
11:30 AM - 11:45 AM	1570764854	Lightweight Proactive Moving-Target Defense for Secure Data Exchange in IoT Networks	John Barker (192 Huffman Lane & VMI, USA); Amal Hamada (Alexandria University, Egypt); Mohamed Azab (Virginia Military Institute , USA)
11:45 AM – 12:00 PM	1570760678	A Survey on User Authentication Factors	Ali Abdullah S. AlQahtani (North Carolina A&T State University, USA); Zakaria El-Awadi and Manki Min (Louisiana Tech University, USA)

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SESSION 10: MOBILE COMPUTING
SESSION CHAIR: HOSAM EL-OCLA (LAKEHEAD UNIVERSITY, USA)
SESSION TIME: 10:30 AM – 12:.00 PM (DAY 2: 28th October 2021)
PARTICIPATION LINK: https://zoom.us/j/6626883577

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30 AM - 10:45 AM	1570746449	Development of a Toxic Food Ingredients Detector	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
10:45 AM - 11:00 PM	1570757475	Machine Learning for Location Prediction Using RSSI on Wi-Fi 2:4 GHZ Frequency Band	Ali Abdullah S. AlQahtani (North Carolina A&T State University, USA); Nazim A Choudhury (University of Wisconsin Green Bay, USA)
11:00 AM - 11:15 AM	1570761886	Dynamic Simulation of a Standalone Photovoltaic Hybrid System of a Remote House in Nigeria	Japhet Chikanka Ozogbuda and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
11:15 AM - 11:30 AM	1570749089	Mobile Application Based Teli-Nutrition System for Covid-19 Pandemic	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
11:30 AM - 11:45 AM	1570764765	Addressing Spectrum Scarcity in Indonesia Dense Urban Market by Using 700 MHz for 4G LTE-Advanced Network Deployment	Pinasthika Fadhila and Muhammad Imam Nashiruddin (Telkom University, Indonesia); Muhammad Adam Nugraha (Peruri Research Institute for Authenticity (PRIfA), Indonesia)
11:45 AM – 12:00 PM	1570764830	Resource Allocation in Multi-Access Edge Computing: Optimization and Machine Learning	Xian Liu (University of Arkansas at Little Rock, USA)

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SESSION 11: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING; MOBILE COMPUTING			
SESSION CHAIR: DOINA BEIN (CALIFORNIA STATE UNIVERSITY, FULLERTON, USA)			
SESSION TIME: 10:30 AM – 12:00 PM (DAY 2: 28th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/9587888372			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30 AM - 10:45 AM	1570760318	Deep Learning on Cryptocurrency - Challenges Processing GPU and CPU Architectures	Alex Trawinski (Georgia Southern, USA); Hayden Wimmer and Weitian Tong (Georgia Southern University, USA)
10:45 AM - 11:00 PM	1570761336	Second Sight: MobileNet v1 Integration in Dynamic and Time Critical Scenarios	Thomas Paveglio and Damian Valles (Texas State University, USA)
11:00 AM - 11:15 AM	1570762209	Blood Cancer Recognition Based on Discriminant Gene Expressions: A Comparative Analysis of Optimized Machine Learning Algorithms	Shadman Sakib (Leading University, Bangladesh & International University of Business Agriculture and Technology, Bangladesh); Abyaz Kader Tanzeem, Ihtyaz Kader Tasawar and Fatema Shorna (BRAC University, Bangladesh); Md: Abu Bakr Siddique and Saadia Binte Alam (International University of Business Agriculture and Technology, Bangladesh)
11:15 AM - 11:30 AM	1570762545	Intelligent Vision-Based Malware Classification Using Quantised ResNets	Sashank Sridhar, Rahul Seetharaman and Sowmya Sanagavarapu (Anna University, India)
11:30 AM - 11:45 AM	1570762090	Twitter Sentiment Analysis in Covid-19 Pandemic	Samaneh Madanian (Auckland University of Technology, New Zealand); David O: Airehrour (Unitec Institute of Technology & New Zealand, New Zealand); Nabilah Ahmad Samsuri (Auckland University of Technology, New Zealand); Marianne Cherrington (University of Huddersfield, United Kingdom (Great Britain))
11:45 AM – 12:00 PM	1570749109	Development of A Web Based Covid Portal and Marketplace	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

SESSION 12: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING AND ROBOTICS			
SESSION CHAIR: MD HOSSAIN (SOUTHERN CONNECTICUT STATE UNIVERSITY. USA)			
SESSION TIME: 10:30 AM – 12:00 PM (DAY 2: 28th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/4897406939			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
10:30 AM - 10:45 AM	1570762273	Remuneration Review: Risk, Planning, and Modelling Beyond the Covid Crisis	Marianne Cherrington (University of Huddersfield, United Kingdom (Great Britain)); David O: Airehrour (Unitec Institute of Technology & New Zealand, New Zealand); Samaneh Madanian (Auckland University of Technology, New Zealand); Joan Lu (Huddersfield University, United Kingdom (Great Britain)); Qiang Xu (University of Huddersfield, New Zealand); Polina Artiushkina (Otago Polytechnic AIC, New Zealand)
10:45 AM - 11:00 PM	1570762547	ROS-Based Robotic System for Tomato Disease and Ripeness Classification Using Convolutional Neural Networks	Balasubramaniyan Chandrasekaran and Zubaidah Al-Mashhadani (Florida Polytechnic University, USA)
11:00 AM - 11:15 AM	1570764866	Topic Modeling and Sentiment Analysis Using Online Reviews for Bangladesh Airlines	Khan Md. Hasib (Ahsanullah University of Science and Technology & BRAC University, Bangladesh); Nurul Akter Towhid (Jahangirnagar University, Bangladesh); Md: Golam Rabiul Alam (BRAC University, Bangladesh)
11:15 AM - 11:30 AM	1570761074	Double-State-Temporal Difference Learning for Resource Provisioning in Uncertain Fog Computing Environment	Bhargavi Krishna Murthy (Postdoc & University of Memphis, USA); Sajjan Shiva (University of Memphis, USA)
11:30 AM - 11:45 AM	1570762524	User-Friendly Enhanced Machine Learning-Based Railway Management System for Sri Lanka	Vihanga Mihiranga, Kasthuri Madushanka, Layodya Palliyaguruge and Navoda Gunasekara (Sri Lanka Institute of Information Technology, Sri Lanka); Manori P Gamage (SLIIT, Sri Lanka); Suriyaa Kumari (Sri Lanka Institute of Information Technology, Sri Lanka)
11:45 AM – 12:00 PM	1570762417	Implementation of Human in the Loop on the TurtleBot Using Reinforced Learning Methods and Robot Operating System (ROS)	Balasubramaniyan Chandrasekaran and Manasa Mainampati (Florida Polytechnic University, USA)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

12:00 PM – 12.15 PM	**BREAK**

SESSION 13: NATURAL LANGUAGE PROCESSING ; ARTIFICIAL INTELLIGENCE			
SESSION CHAIR: DIOGO OLIVEIRA (FLORIDA STATE UNIVERSITY, USA)			
SESSION TIME: 12:15 PM – 1:45 PM (DAY 2: 28th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/4109219194			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:15 PM – 12:30 PM	1570752989	Price Prediction Using LSTM Based Machine Learning Models	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
12:30 PM – 12:45 PM	1570761223	Analyzing BTC's Trend During COVID-19 Using A Sentiment Consensus Clustering (SCC)	Ahmed Fakhri Ibrahim (Boston University, Canada)
12:45 PM – 1:00 PM	1570762540	A Survey of Deep Learning Methods on Semantics	Maryam Heidari (George Mason University, USA); Parisa Hajibabaee (University of Massachusetts at Lowell, USA); Samira Zad (Florida International University, USA)
1:00 PM – 1:15 PM	1570764813	Analysis of Different Types of Word Representations and Neural Networks on Sentiment Classification Tasks	Rajvardhan Patil and Nathaniel Bowman (Grand Valley State University, USA); Jerry Wood (Arkansas Tech University, USA)
1:15 PM – 1:30 PM	1570751680	Prediction of Stock Market Using Recurrent Neural Netw	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:30 PM – 1.45 PM	1570762234	Speech Master: Natural Language Processing, and Deep Learning Approach for Automated Speech Evaluation	Chalika M Kooragama, Dhananjaya Jayashanka, Janitha A Munasingha, Kavindu Jayawardana, Muditha Tissera and Thilini B Jayasingha (Sri Lanka Institute of Information Technology, Sri Lanka)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

SESSION 14: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING			
SESSION CHAIR: SAIKAT DAS (MIDWESTERN STATE UNIVERSITY, USA)			
SESSION TIME: 12:15 PM – 1:45 PM (DAY 2: 28th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/6626883577			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:15 PM – 12:30 PM	1570764881	The Rise and Fall of Bitcoin: Predicting Market Direction Using Machine Learning Models	Eman Abdelfattah and Esther Jakubowicz (Ramapo College of New Jersey, USA)
12:30 PM – 12:45 PM	1570762393	Missing Data Imputation and Meta-Analysis on Correlation of Spatio-Temporal Weather Series Data	Alkiviadis Kyrtsoglou (Information Technologies Institute Centre for Research and Technology Hellas Greece, Greece); Asimina Dimara (Centre for Research and Technology Hellas, Greece); Dimitrios Triantafyllidis (The Centre for Research & Technology, Hellas - CERTH & Information Technology Institute - ITI, Greece); Stelios Krinidis and Konstantinos Kitsikoudis (Centre for Research and Technology Hellas, Greece); Dimosthenis Ioannidis (Information Technologies Institute, Greece); Stavros Antipas (Patras Port Authority S: A, Greece); Georgios Tsoukos (TREDIT S: A, Greece); Dimitrios Tzovaras (Centre for Research and Technology Hellas, Greece)
12:45 PM – 1:00 PM	1570762461	Anomaly Detection in Election Data and Its Representation of U:S: Infrastructure Vulnerability	Jason Matthew Green (North Carolina Agricultural and Technical University, USA)
1:00 PM – 1:15 PM	1570762498	Comparison of Multiple-Imputation Algorithms for Social Determinants of Health in Cervical Cancer Stage Detection	Juan F Galindo Jaramillo (University of Campinas & FHO University, Brazil); Giovana Moura Formigari, Diama Vale and Edson Ursini (University of Campinas, Brazil); Paulo S Martins (University of Campinas (UNICAMP), Brazil)
1:15 PM – 1:30 PM	1570762548	An Empirical Study of the GraphSAGE and Word2vec Algorithms for Graph Multiclass Classification	Maryam Heidari (George Mason University, USA); Parisa Hajibabaee (University of Massachusetts at Lowell, USA); Samira Zad (Florida International University, USA)
1:30 PM – 1.45 PM	1570762550	Using Artificial Bias to Assist Evasive Maneuvering of Fighter Aircrafts in Combat Situations	Trung Tat Pham (United States Air Force Academy, USA)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

	SESSION 15: INTERNET OF THINGS		
	SESSION CHAIR: MICHAEL TOTARO (UNIVERSITY OF LOUISIANA AT LAFAYETTE, USA)		
	SESSION TIME: 12:15 PM – 1:45 PM (DAY 2: 28th October 2021)		
	PARTICIPATION LINK: https://zoom.us/j/9587888372		
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:15 PM – 12:30 PM	1570764850	Design and Implementation of IoT Based Cloud Enabled Wireless Biometric Monitoring Device	Shahnam Mirzaei and Krishnamurthy Ramamoorthy (California State University, Northridge, USA)
12:30 PM – 12:45 PM	1570762266	An Event-Driven Authentication Approach for Mediation of User Actions	Kyle Marshall, Thomas Cantido and Jonathan T Case (California State University, Fresno, USA); Long H Nguyen (California State University, Fresno); Hayssam El-Razouk (California State University, Fresno, USA)
12:45 PM – 1:00 PM	1570761044	The Role of Subject Confidence and Historical Deception in Mis/Disinformation Vulnerability	Kevin Matthe Caramancion (University at Albany, USA)
1:00 PM – 1:15 PM	1570761051	Random Access Process Enhancements for Cellular Internet of Things (CIoT)	John Dian (BCIT, Canada); Reza Vahidnia (British Columbia Institute of Technology, Canada)
1:15 PM – 1:30 PM	1570764639	An IoT-Based Complete Smart Drainage System for a Smart City	Tarannum Zaki (Military Institute of Science and Technology, Bangladesh); Ismat Jahan (Military Institute of Science and Technology, USA); Md Shohrab Hossain (Bangladesh University of Engineering and Technology, Bangladesh); Husnu S Narman (Marshall University, USA)
1:30 PM – 1.45 PM	1570761015	Deep Neural Networks for Time Series Classification in Human Activity Recognition	Eman Abdelfattah and Shreehar Joshi (Ramapo College of New Jersey, USA)

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	SESSION 16: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ; IoT		
	SESSION CHAIR: ABHISHEK VERMA (NEW JERSEY CITY UNIVERSITY, USA)		
	SESSION TIME: 12:15 PM – 1:30 PM (DAY 2: 28th October 2021)		
	PARTICIPATION LINK: https://zoom.us/j/4897406939		
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:15 PM – 12:30 PM	1570764434	Pothole Detection Using Advanced Neural Networks	Narayana Darapaneni (Northwestern University School of Professional Studies, India & Great Learning, India); Anwesh Reddy Paduri, Dilip Krishna Natesan, Suresh Reddy Naresh, Arati Alok Satpute, Sarang Surve, Anitha Urkude, Aakash Yogi and Utkarsh Srivastava (Great Learning, India)
12:30 PM – 12:45 PM	1570764836	Deep Convolutional Neural Networks-Based Sign Language Recognition System	İsmail Hakki Yemenoglu, A: F: M: Shahen Shah and Haci Ilhan (Yildiz Technical University, Turkey)
12:45 PM – 1:00 PM	1570762119	Innovative FOTA-Based Software Update for IoT MESH Network	Hung-Chin Jang and Cheng-Yuan Tsai (National Chengchi University, Taiwan)
1:00 PM – 1:15 PM	1570762574	Design and Development of an Integrated Internet of Audio and Video Sensors for COVID-19 Coughing and Sneezing Recognition	Sina Kiaei and Sepehr Honarparvar (University of Calgary, Canada); Sara Saeedi (The University of Calgary, Canada); Steve Liang (University of Calgary, Canada)
1:15 PM – 1:30 PM	1570762589	A Hybrid Approach for IoT Botnet Attack Detection	Madhuri Desai and Yong Shi (Kennesaw State University, USA)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

DAY 3: 29th October 2021

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8:00 AM - 8:45 AM	KEYNOTE ADDRESS BY IOANIS NIKOLAIDIS (PROFESSOR, UNIVERSITY OF ALBERTA) TITLE OF TALK: CHALLENGES IN BUILDING GRASS ROOTS WIRELESS SENSOR NETWORKS	https://zoom.us/j/6319961197
8:45 AM – 9:30 AM	KEYNOTE ADDRESS BY **XIAOBU YUAN** (PROFESSOR, UNIVERSITY OF WINDSOR) TITLE OF TALK: DIGITALIZATION OF SOFTWARE DEVELOPMENT VIA VIRTUAL REALITY	
9:30 AM - 10:15 AM	KEYNOTE ADDRESS BY **LORETTA CHEEKS** (FOUNDER, STRONG TIES AND DS INNOVATION) TITLE OF TALK: DATA TRUST DEVELOPMENT	

10:15 AM - 10:30 AM	BREAK

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

PARALLEL SESSIONS

SESSION 17:   INTERNET OF THINGS AND CLOUD COMPUTING
SESSION CHAIR : WOLFGANG BEIN (UNIVERSITY OF NEVADA, LAS VEGAS, USA)
SESSION TIME: 10:30 AM – 12:00 PM   (DAY 3: 29th October 2021)
PARTICIPATION LINK: https://zoom.us/j/4109219194

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30 AM - 10:45 AM	1570764306	A Machine Learning Framework for Intrusion Detection System in IoT Networks Using an Ensemble Feature Selection Method	Ge Guo (Wuhan Qingchuan University, China)
10:45 AM - 11:00 PM	1570764654	IoT Application Development Based on Java and Raspberry Pi	Zheng Lu and Xing Liu (Kwantlen Polytechnic University, Canada)
11:00 AM - 11:15 AM	1570764837	Where in the World is My Suitcase? Air Passenger Luggage Tracking Using RFID Tags	Anwar Al-Khateeb (Politecnico Di Torino, Italy)
11:15 AM - 11:30 AM	1570764851	A Novel Method for Automated Identification and Prediction of Invasive Species Using Deep Learning	Nathan Elias (Liberal Arts and Science Academy (LASA), USA)
11:30 AM - 11:45 AM	1570762044	Developing Machine Learning and Deep Learning Models for Host Overload Detection in Cloud Data Center	Ricardo Alejandro Manzano S: (Cistech Limited, Canada); Nishith Goel (Cistech Ltd:, Canada); Rohit Joshi (Cistel Technology, Canada); Marzia Zaman (Cistel Technology Inc:, Canada); Mustafa Daraghmeh and Anjali Agarwal (Concordia University, Canada)
11:45 AM – 12:00 PM	1570765270	Modelling Crowd Dynamics and Crowd Management Strategies	Andrew J: Park (Trintiy Western University ,Canada) , Ryan Ficocelli (Thompson Rivers University, Canada); Lee Patterson and Frank Dodich (Justice Institute of British Columbia, Canada); Herbert H: Tsang (Trinity Western University, Canada)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
		SESSION 18: BIG DATA AND ROBOTICS	
		SESSION CHAIR : ALI ABDULLAH S. ALQAHTANI (NORTH CAROLINA A&T STATE UNIVERSITY, USA)	
		SESSION TIME: 10:30 AM – 12:00 PM (DAY 3: 29th October 2021)	
		PARTICIPATION LINK: https://zoom.us/j/6626883577	
10:30 AM - 10:45 AM	1570753943	An Ensemble Machine Learning Approach for Time Series Forecasting of COVID-19 Cases	Renato R: Maaliw III (Southern Luzon State University, Philippines); Melvin A: Ballera (Technological Institute of the Philippines, Philippines); Zoren P Mabunga (Southern Luzon State University, Philippines & Mapua University, Philippines); Aubee T: Mahusay, Dhenalyn A: Dejelo and Mariebeth P: Seño (Southern Luzon State University, Philippines)
10:45 AM - 11:00 PM	1570751684	Electronic iDrop Aid: Servo Motor Based Arduino Controlled Automated Solution for Disposal of iDrop	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
11:00 AM - 11:15 AM	1570764662	Optimization of Transmission Strategy for Wireless Power Transfer Using Multi-Armed Bandit Algorithm	Yuan Xing (University of Wisconsin-Stout, USA); Riley Young (University of Wisconsin Stout, USA); Giaolong Nguyen (University of Wisconsin Stout, India); Maxwell Lefebvre (University of Wisconsin Stout, USA); Tianchi Zhao (University of Arizona, USA); Haowen Pan Changzhou (Long Journey Electronics Technology LLC, India)
11:15 AM - 11:30 AM	1570761710	Unmanned Aerial Vehicles Against Covid-19 Pandemic: Main Applications and Limitations	Loubna Chaibi (Mohammadia School of Engineering, Morocco)
11:30 AM - 11:45 AM	1570746442	Metro Rail Tracking System in Bangladesh	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
11:45 AM – 12:00 PM	1570762552	Predicting Home Care Use After Assessment Using Multiple Machine Learning Methods	Robin Teotia (Thompson Rivers University, Canada); Shannon Freeman (University of Northern British Columbia, Canada); Piper J Jackson (Thompson Rivers University, Canada)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

SESSION 19: ROBOTICS , AI, AD HOC AND CLOUD NETWORKS			
SESSION CHAIR : HAYDEN WIMMER (GEORGIA SOUTHERN UNIVERSITY, USA)			
SESSION TIME: 10:30 AM – 12:00 PM (DAY 3: 29th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/9587888372			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
10:30 AM - 10:45 AM	1570762499	Edge Intelligence Based Collaborative Learning System for IoT Edge	Lahiru Pasan Welagedara and Janani Harischandra (Informatics Institute of Technology, Sri Lanka); Nuwan Jayawardene (University of Moratuwa, Sri Lanka)
10:45 AM - 11:00 PM	1570743246	Apache and HTTP/2 in the Cloud: A Comparative Study of Apache Architecture in AWS	Jacob Koch and Wei Hao (Northern Kentucky University, USA)
11:00 AM - 11:15 AM	1570760988	A Model Simulation and Analyses for Resource Allocation Scheme in V2V Communications With Deep Q Network	Yukang Zhu (Shanghai Jiaotong University, China); Yancong Deng (University of California San Diego, USA); Qiannan Ji (Beijing Information Science and Technology University, China)
11:15 AM - 11:30 AM	1570762270	LS-AODV: An Energy Balancing Routing Algorithm for Mobile Ad Hoc Networks	Cameron Lane and Calvin J Smith (California State University, Fresno, USA); Nan Wang (California State University at Fresno, USA)
11:30 AM - 11:45 AM	1570762554	Understanding the Transaction Placement Problem in Blockchain Sharding Protocols	Liuyang Ren and Paul A.S. Ward (University of Waterloo, Canada)
11:45 AM – 12:00 PM	1570764403	Effectiveness of Lockdown in Karnataka During the Second Wave of COVID-19	Narayana Darapaneni (Northwestern University School of Professional Studies, India & Great Learning, India); Anwesh Reddy Paduri, Suryanarayana Murthy K, Kashyap Bhanu Das, Nitesh Panda, Ashwani Kumar Singh and Pradeep Singh Visen (Great Learning, India)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

	SESSION 20: VLSI AND MICROELECTRONIC CIRCUIT EMBEDDED SYSTEMS		
	SESSION CHAIR : MUHAMMAD S. ULLAH (FLORIDA POLYTECHNIC UNIVERSITY, USA)		
	SESSION TIME: 10:30 AM – 12:00 PM (DAY 3: 29th October 2021)		
	PARTICIPATION LINK: https://zoom.us/j/4897406939		
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
10:30 AM - 10:45 AM	1570747725	Memristor: Review and CMOS-Based Emulator Circuit Design	Naheem Adesina (Louisiana State University, USA)
10:45 AM - 11:00 PM	1570762197	VGSOT MRAM Design and Performance Analysis	Md Rubel Sarkar, Md Maruf Abir Bappy, Md Minhajul Azmir, Dewan Mohammed Rashid and Saad Ibn Hasan (Ulkasemi Private Limited, Bangladesh)
11:00 AM - 11:15 AM	1570762251	Modeling the Effects of SBD, HCI, and NBTI in CMOS Voltage Controlled Oscillator Design for PLL Applications	Naheem Adesina (Louisiana State University, USA)
11:15 AM - 11:30 AM	1570762198	Design Process and Performance Analysis of Two Stage Differential Op-Amp by Varying the Body Biasing in Fully Depleted Silicon on Insulator Technology	Md Maruf Abir Bappy, Md Rubel Sarkar, Saad Ibn Hasan, Md Minhajul Azmir and Dewan Mohammed Rashid (Ulkasemi Private Limited, Bangladesh)
11:30 AM - 11:45 AM	1570761228	A Low Power MoS2 TFET-Based Op-Amp Design for Computational Circuits	Naheem Adesina (Louisiana State University, USA)
11:45 AM – 12:00 PM	1570762533	Developing Attack Resilience in Y86 Processor Using Logic Locking	Roshan E: and Nishanth VG (Amrita Vishwa Vidyapeetham, India); Mohankumar N (Amrita School of Engineering Coimbatore & Amrita Vishwa Vidyapeetham, India)

12:00 PM – 12.15 PM	**BREAK**

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

	SESSION 21: FPGA AND ELECTRIC VEHICLE TECHNOLOGIES		
	SESSION CHAIR: ANDREW PARK (TRINTIY WESTERN UNIVERSITY , CANADA)		
	SESSION TIME: 12:15 PM – 1:45 PM (DAY 3: 29th October 2021)		
	PARTICIPATION LINK: https://zoom.us/j/4109219194		
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:15 PM – 12:30 PM	1570761035	Design and Analysis of a Practical RMS Power Detector Using Power MOSFET	Jules Guiliary Ravanne, Yi Lung Then and Su Hieng Tiong (Swinburne University of Technology, Malaysia)
12:30 PM – 12:45 PM	1570762512	Symmetric Large Size Unsigned Multiplication Using Embedded DSP Blocks in FPGAs	Noureddine Chabini (Royal Military College of Canada, Canada); Abdessadek Aaroud (Chouaib Doukkali University, Morocco)
12:45 PM – 1:00 PM	1570762311	An Effective Approach for Implementing COVID-19 CT Lung Segmentation Using Low-Cost System on Chip	Arvindh Srinivasan (California State University, Fresno, USA); Nan Wang (California State University at Fresno, USA)
1:00 PM – 1:15 PM	1570762536	Frequency Optimized FPGA-Based Digital FIR Filters With Data Inputs and Coefficients of Large Size	Noureddine Chabini (Royal Military College of Canada, Canada); Abdessadek Aaroud (Chouaib Doukkali University, Morocco)
1:15 PM – 1:30 PM	1570758529	Design and Simulation of a Wind Turbine Powered Electric Car Charging System for St: John's, NL	Amirhossein Jahanfar and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
1:30 PM – 1.45 PM	1570764844	An Optimized FPGA Based Box-Muller Gaussian Random Number Generator Architecture for Communication Applications	Mountassar Maamoun (University of Blida 1, Algeria); Hocine Ait Saadi (University of Blida, Algeria); Noureddine Chabini and Rachid Beguenane (Royal Military College of Canada, Canada)

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SESSION 22: ELECTRONIC INSTRUMENTATIONS
SESSION CHAIR: MUHAMMAD S. ULLAH (FLORIDA POLYTECHNIC UNIVERSITY, USA)
SESSION TIME: 12:15 PM – 1:45 PM (DAY 3: 29th October 2021)
PARTICIPATION LINK: https://zoom.us/j/6626883577

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:15 PM – 12:30 PM	1570764753	Energy Saving Inverter on A Single-Phase Induction Motor for Albumin Production Process	Onny Setyawati (Brawijaya University, Indonesia); Nurussa'adah Nurussa'adah (Universitas Brawijaya, Indonesia); Taufik Taufik (California Polytechnic State University, San Luis Obispo, USA)
12:30 PM – 12:45 PM	1570761738	A Circuit Design of a Sensor Amplifier for Improving Blood Pressure Measurement in Telehealth System	Maurine C: Panergo (Southern Luzon State University, Philippines); Febus Reidj G: Cruz (Mapua University, Philippines); Renato R: Maaliw III (Southern Luzon State University, Philippines)
12:45 PM – 1:00 PM	1570748450	Development of a Smart Automatic Gas Leakage Detector and Alarming System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Ratil Ashique (Green University Bangladesh, Bangladesh)
1:00 PM – 1:15 PM	1570761794	A Double Precision Arbitrary Waveform Generator Based Calibration System for Low-Value AC Resistors Up to 20 kHz	Mohamed Ouameur (Laboratoire National de Métrologie et d'Essais France & LNE, France); Renata Vasconcellos (Laboratoire National de Métrologie et d'Essais, France); Mohamed Agazar (LNE, France)
1:15 PM – 1:30 PM	1570762180	A Study of the Efficiency of an LTC3108-Based Circuit for Thermal Energy Harvesting	Maria L A Medeiros and Marcelo Camboim (Federal University of Paraíba, Brazil); Cleonilson Protasio de Souza (Federal University of Paraiba, Brazil); Orlando Baiocchi (University of Washington, USA)
1:30 PM – 1:45 PM	1570761039	A Linear-In-Decibel RF Power Detector for Microwave Measurements in the S-Band Frequency Using CMOS Technology	Jules Guiliary Ravanne, Yi Lung Then and Su Hieng Tiong (Swinburne University of Technology, Malaysia)

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12:15 PM – 12.25 PM	PLENARY TALK : BY DR. XIAOYU SONG (PORTLAND STATE UNIVERSITY, USA) Title: Formal Modeling and Analysis of Embedded Computing Systems
PARTICIPATION LINK	https://zoom.us/j/9587888372

SESSION 23: ELECTRONIC INSTRUMENTATIONS AND ELECTRONIC POWER CONVERTERS			
SESSION CHAIR: XIAOYU SONG (PORTLAND STATE UNIVERSITY, USA)			
SESSION TIME: 12:30 PM – 1:45 PM (DAY 3: 29th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/9587888372			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570764705	Maximum Power Point Tracking for Solar Photovoltaic System Using Synchronous Reference Frame Theory	Zuhair Alqarni (ALBAHA University, Saudi Arabia)
12:45 PM – 1:00 PM	1570764447	Design of an Optimal Hybrid Energy System for a Captive Power Plant in Pakistan	Luqman Ahsan and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
1:00 PM – 1:15 PM	1570764653	Techno-Economic Comparison of Emerging Solar PV Modules for Utility Scale PV Installation	Aruoriwoghene Ufuoma Okere and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
1:15 PM – 1:30 PM	1570756999	A Weighting Factor Online Tuning Method Based PSO Algorithm for MPTC Strategy of PMSM	Y. Wei (Yanshan University, China); Yi Tian (Chinese Academy of Sciences, China)
1:30 PM – 1.45 PM	1570757873	MPPT Techniques Comparison for a Small-Scale PVRO System in Iran	Mohammad Mousavi and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)

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SESSION 24: ELECTRONIC POWER CONVERTERS ,ADAPTIVE CONTROL
SESSION CHAIR: ABU ASADUZZAMAN (WICHITA STATE UNIVERSITY, USA)
SESSION TIME: 12:15 PM – 1:45 PM (DAY 3: 29th October 2021)
PARTICIPATION LINK: https://zoom.us/j/4897406939

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:15 PM – 12:30 PM	1570762527	Implementation of Forward Converter With Active Clamp for Welding Machines	Muhammed Bilicioğlu and Enes Kavak (Yildiz Technical University, Turkey); Fatih Züngör (Yildiz Technical University & Mamur Technology Inc:, Turkey); İbrahim Eski (Yildiz Technical University, Turkey); Metin Öztürk (Istanbul Esenyurt University, Turkey); Haci Bodur (Yildiz Technical University, Turkey)
12:30 PM – 12:45 PM	1570762565	An Improved Switched Capacitor Multi-Level Inverter Topology With Boosting Capability and Reduced Component Count	Vijay Sirohi (Punjab Engineering College, India); Jagdish Kumar and Tejinder Singh Saggu (PEC University of Technology, India); Balbir(Bob) Gill (British Columbia Institute of Technology, Canada)
12:45 PM – 1:00 PM	1570762262	Hyperswarms: A New Architecture for Amplifying Collective Intelligence	Gregg Willcox, Louis Rosenberg, Colin Domnauer and Hans Schumann (Unanimous AI, USA)
1:00 PM – 1:15 PM	1570762252	Adaptive Secondary Frequency Control of Islanded AC Microgrids Subjected to Disturbances	Arijit Ganguly (University of Engineering & Management, India); Shantanu Bhadra (Institute of Hotel and Restaurant Management, India); Parijat Bhowmick (University of Manchester, United Kingdom (Great Britain)); Sawan Sen (Kalyani Government Engineering College, India)
1:15 PM – 1:30 PM	1570761547	Grid Architecture Model for Smart Grid	Roghoyeh Salmeh (Ph: D:, P: Eng: PMP, SM IEEE, FEC FGC (Hon:) & Alberta Electric System Operator (AESO), Canada); Nick Farid (Student Member IEEE, USA)
1:30 PM – 1.45 PM	1570762141	Neighborhood Search for Process Resource Configuration in Cyber Physical Systems	Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)

All the timings are given in Pacific Daylight Time (PDT (UTC–7))

DAY 4: 30th October 2021

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8:00 AM - 8:45 AM	**KEYNOTE ADDRESS BY SHEELAGH CARPENDALE (PROFESSOR, SIMON FRASER UNIVERSITY)** **TITLE OF TALK: DATA VISUALIZATION FOR EMPOWERMENT AND INCLUSION**	**https://zoom.us/j/6319961197**
8:45 AM – 9:30 AM	KEYNOTE ADDRESS BY **EYAL DE LARA** **(PROFESSOR, UNIVERSITY OF TORONTO)** **TITLE OF TALK: STORAGE SYSTEMS FOR THE EDGE**	
9:30 AM - 10:15 AM	KEYNOTE ADDRESS BY **NOAM AIGERMAN** **(RESEARCH SCIENTIST , ADOBE RESEARCH)** **TITLE OF TALK: DEEP LEARNING OF 3D GEOMETRY MADE EASY**	

10:15 AM - 10:30 AM	**BREAK**

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

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		SESSION 26: NETWORK ARCHITECTURES , COGNITIVE RADIO	
		SESSION CHAIR: DOINA BEIN (CALIFORNIA STATE UNIVERSITY, FULLERTON, USA)	
		SESSION TIME: 10:30 AM - 11:45 AM (DAY 4: 30th October 2021)	
		PARTICIPATION LINK: https://zoom.us/j/6626883577	
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
10:30 AM - 10:45 AM	1570760529	Design, Analysis, and Study of Fractal MIMO Antenna With Dual Filters for UWB/X/Partial Ku Band Wireless Applications	Balbir(Bob) Gill (British Columbia Institute of Technology, Canada); Maninder Singh (Chitkara University Institute of Engineering and Technology, Punjab, India); Manish Sharma (Chitkara University Institute of Engineering and Technology, India); Rajeev Kumar (Chitkara University, Punjab, India)
10:45 AM - 11:00 PM	1570764842	Scientific Workflow Provenance Architecture for Heterogeneous HPC Environments	Alex Williams (USA); Deepak K Tosh (University of Texas, El Paso, USA)
11:00 AM - 11:15 AM	1570762396	Maximization of the User Association of a Low-Power Tier Deploying Biased User Association Scheme in Multi-Tier Heterogeneous Network	Mobasshir Mahbub (Ahsanullah University of Science and Technology, Bangladesh); Abdullah G: Alharbi (University of Missouri - Kansas City, MO, USA); Bobby Barua (BUET & Ahsanullah University of Science and Technology, Bangladesh)
11:15 AM - 11:30 AM	1570761360	Evaluation of a Bio-Socially Inspired Secure DSA Scheme Using Testbed-Calibrated Hybrid Simulations	Anna Wisniewska (Washington State University Vancouver, USA); Nirnimesh Ghose (University of Nebraska, Lincoln, USA); Bilal Khan (University of Nebraska-Lincoln, USA)
11:30 AM - 11:45 AM	1570763312	A Deep Reinforcement Learning: Location-Based Resource Allocation for Congested C-V2X Scenario	Shubhangi Bhadauria (Friedrich Alexander University, Erlangen-Nuremberg & Fraunhofer IIS, Germany); Sneha Vasan (Ericsson, Germany); Moustafa Roshdi and Elke Roth-Mandutz (Fraunhofer IIS, Germany); Georg Fischer (University of Erlangen-Nuremberg (FAU), Germany)

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

SESSION 27: NETWORK SECURITY			
SESSION CHAIR: HAYDEN WIMMER (GEORGIA SOUTHERN UNIVERSITY)			
SESSION TIME: 10:30 AM - 11:30 AM (DAY 4: 30th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/9587888372			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30 AM - 10:45 AM	1570761482	Isomorphic Cipher Reduction	Bhaskar Ghosh, Indira Dutta and Shivanjali Khare (University of Louisiana at Lafayette, USA); Albert Carlson (Camqed Labs, USA); Michael W Totaro (University of Louisiana at Lafayette & Ray P: Authement College of Sciences, USA)
10:45 AM - 11:00 PM	1570764292	SOME/IP Intrusion Detection Using Deep Learning-Based Sequential Models in Automotive Ethernet Networks	Natasha Alkhatib (Institute Polytechnique de Paris, France); Hadi Ghauch (Royal Institute of Technology (KTH), Sweden); Jean-Luc Danger (Telecom Paris, France)
11:00 AM - 11:15 AM	1570764858	Smart Blockchain-based Control-data Protection Framework for Trustworthy Smart Grid Operations	Salma Samy (Faculty of Engineering, Alexandria University, Egypt); Mohamed Azab (Virginia Military Institute, USA); Mohamed Rizk (Faculty of Engineering, Alexandria University, Egypt); Karim A: Banawan (Alexandria University, Egypt)
11:15 AM - 11:30 AM	1570761470	Key Space Reduction Using Isomorphs	Bhaskar Ghosh, Indira Dutta and Shivanjali Khare (University of Louisiana at Lafayette, USA); Albert Carlson (Camqed Labs, USA); Michael W Totaro (University of Louisiana at Lafayette & Ray P: Authement College of Sciences, USA)

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SESSION 28: TELECOMMUNICATION SYSTEMS & WIRELESS SENSOR NETWORKS			
SESSION CHAIR: MUATH OBAIDAT (CITY UNIVERSITY OF NEW YORK, USA)			
SESSION TIME: 10:30 AM - 11:45 AM (DAY 4: 30th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/4897406939			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30 AM - 10:45 AM	1570764643	On the Bandwidth Efficiency of D2D Link Adaptation Under Co-Channel Interference	Redha M Radaydeh (Texas A&M University-Commerce, USA)
10:45 AM - 11:00 PM	1570762194	Intelligent Crowd-Sourced 5G Heat-Map With Event-Driven Architecture	Lakshan Bandara, Hashini Rathnasinghe, Eshan Kavinda Perera, Chanuka De Seram and Hansika Mahaadikara (Sri Lanka Institute of Information Technology, Sri Lanka)
11:00 AM - 11:15 AM	1570763528	Adaptive Time-Frequency Synthesis for Waveform Discernment in Wireless Communications	Steve Chan (University of Arizona , USA); Bob Griffin (University of Arizona, USA); Marwan Krunz (University of Arizona , USA)
11:15 AM - 11:30 AM	1570764637	An Energy Efficient Gravitational Model for Tree Based Routing in Wireless Sensor Networks	Md Mahbubur Rahman (Patuakhali Science and Technology University, Bangladesh); Md Shohrab Hossain (Bangladesh University of Engineering and Technology, Bangladesh); Mohammad Mahfuzul Islam (BUET, Bangladesh); Husnu S Narman (Marshall University, USA)
11:30 AM - 11:45 AM	1570760638	Design and Implementation of a Microstrip Patch Antenna for the Detection of Cancers and Tumors in Skeletal Muscle of the Human Body Using ISM Band	Fardeen Mahbub, Rashedul Islam and Shouherdho Banerjee Akash (American International University-Bangladesh, Bangladesh); M Tanseer Ali (American International University - Bangladesh (AIUB) & IEEE Bangladesh Section Ex-Com, Bangladesh); Saiful Islam (American International University-Bangladesh (AIUB), Bangladesh)

11:45 AM - 12:00 PM	BREAK

All the timings are given in Pacific Daylight Time (PDT (UTC–7))

SESSION 29: MACHINE LEARNING AND SECURITY			
SESSION CHAIR: MD HOSSAIN (SOUTHERN CONNECTICUT STATE UNIVERSITY. USA)			
SESSION TIME: 12:00 PM – 1:15 PM (DAY 4: 30th October 2021)			
PARTICIPATION LINK: https://zoom.us/j/4109219194			
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:00 PM – 12:15 PM	1570762502	A Deep Learning Approach to Predict Chronic Kidney Disease in Human	Faisal Arafat and Thaharim Khan (Daffodil International University, Bangladesh); Atanu Das Bapon (Ahsanullah University of Science & Technology, Bangladesh); Md: Ibrahim Khan (Daffodil International University, Bangladesh); Sheak Rashed Haider Noori (Daffodil International University, Norway)
12:15 PM – 12:30 PM	1570762571	Deep Learning to Improve False Data Injection Attack Detection in Cooperative Intelligent Transportation Systems	Sultan Ahmed Almalki and Frederick T Sheldon (University of Idaho, USA)
12:30 PM – 12:45 PM	1570764609	Performance Study of Image Data Augmentation by Generative Adversarial Networks	Katsuaki Wada and Basabi Chakraborty (Iwate Prefectural University, Japan)
12:45 PM – 1:00 PM	1570764786	Public Sector Digital Transformation: Challenges for Information Technology Leaders	Gideon Mekonnen Jonathan (Stockholm University, Sweden); King Solomon Hailemariam (Addis Ababa University, Ethiopia); Bemenet Kasahun Gebremeskel (Bahir Dar University, Ethiopia); Sileshi Yalew (Addis Ababa Institute of Technology & Addis Ababa University, Ethiopia)
1:00 PM – 1:15 PM	1570762246	Debris Object Detection Caused by Vehicle Accidents Using UAV and Deep Learning Techniques	Homayra Alam and Damian Valles (Texas State University, USA)

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TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:00 PM – 12:15 PM	1570764437	Design and Performance Analysis of Monopole Antenna for the Detection of Early-Stage Hepatocellular Carcinoma (HCC) in Human Liver	Rashedul Islam, Fardeen Mahbub and Sayed Abdul Kadir Al-Nahiun (American International University-Bangladesh, Bangladesh); MD: Ismail Hossain Rabbi (American International University-Bangladesh (AIUB), Bangladesh)
12:15 PM – 12:30 PM	1570762541	An Experimental Validation of a Thermoelectric Generator LTspice Model for Energy Harvesting	Mariana M Ferreira (Federal University of Paraíba, Brazil); Maria Paula Medeiros Gomes Miguel (University Federal of Paraiba, Brazil); Cleonilson Protasio de Souza (Federal University of Paraiba, Brazil); Orlando Baiocchi (University of Washington, USA)
12:30 PM – 12:45 PM	1570764787	Modeling and Predicting the Ionospheric Total Electron Content Over Western China With Machine Learning	Fengyang Long, Chengfa Gao and Yanfeng Dong (Southeast University, China)
12:45 PM – 1:00 PM	1570761865	A Case for Splitting a File for Data Placement in a Distributed Scientific Workflow	Hindol Bhattacharya, Matangini Chattopadhyay and Samiran Chattopadhay (Jadavpur University, India)

SESSION 30: MACHINE LEARNING AND WIRELESS MULTICASTING
SESSION CHAIR: HEBA ELGAZZAR (MOREHEAD STATE UNIVERSITY, USA)
SESSION TIME: 12:00 PM – 1:00 PM   (DAY 4: 30th October 2021)
PARTICIPATION LINK: https://zoom.us/j/6626883577

All the timings are given in Pacific Daylight Time (PDT (UTC-7))

	SESSION 31: MACHINE LEARNING		
	SESSION CHAIR: EMAN ABDELFATTAH (RAMAPO COLLEGE OF NEW JERSEY, USA))		
	SESSION TIME: 12:00 PM – 1:00 PM (DAY 4: 30th October 2021)		
	PARTICIPATION LINK: https://zoom.us/j/9587888372		
TIME ALLOTTED	**PAPER ID**	**PAPER NAME**	**AUTHORS WITH AFFILIATION & COUNTRY**
12:00 PM – 12:15 PM	1570762342	Masa: AI-Adaptive Mobile App for Sustainable Agriculture	Ruth Ogubuike, Ashfaq Adib and Rita Orji (Dalhousie University, Canada)
12:15 PM – 12:30 PM	1570762379	Fuzzy Based User-Centric Smart Approach to Prevent Unhealthy Eating Habit Crisis	Hewa Kamkanamge Nethma Malshani (Sri Lanka Institute of Information Technology, Sri Lanka); Hettige Dilith Sasanka (Srilanka Institute of Information Technology, Sri Lanka); Uchitha Iran Wickramaratne, Yashmitha Kavindi Masimbula, Muditha Tissera and Buddhima Attanayake (Sri Lanka Institute of Information Technology, Sri Lanka)
12:30 PM – 12:45 PM	1570764290	Creation of a Knowledge Management Model Based on CBR: Application to the Maintenance of Autonomous Solar Photovoltaic Installations	Ibrahima Gueye (ENSETP Dakar, Senegal)
12:45 PM – 1:00 PM	1570762244	Network Traffic Prediction for a Software Defined Network Based Virtualized Security Functions Platform	Dimuthu Jayasinghe, Windhya Rankothge, Narmada Gamage, Theeraka Gamage, Sasanka Uwanpriya and Haritha Amarasinghe (Sri Lanka Institute of Information Technology, Sri Lanka)

VALEDICTORY SESSION	**1:30 PM – 2:00 PM**
PARTICIPATION LINK: https://zoom.us/j/6319961197	

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