



IEEE UEMCON 2021

**The 2021 IEEE 12th Annual Ubiquitous Computing, Electronics & Mobile
Communication Conference**

**Virtual Conference, New York, USA
1 – 4 December , 2021**

All the timings are given in Eastern Standard Time (EST (UTC-5))

TECHNICAL SCHEDULE

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All the timings are given in Eastern Standard Time (EST (UTC-5))

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DAY 1: 1st December 2021

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.00 AM	INAUGURATION	WILL BE UPDATED SOON
9.00 AM – 9:45 AM	KEYNOTE ADDRESS BY MURIEL MÉDARD (PROFESSOR, MASSACHUSETTS INSTITUTE OF TECHNOLOGY) TITLE OF TALK: UNIVERSAL DECODING - TOWARDS ESCAPING STANDARDS FOR CODING	
9:45 AM - 10.30 AM	KEYNOTE ADDRESS BY H.T. KUNG (PROFESSOR, HARVARD UNIVERSITY) TITLE OF TALK: HARDWARE ALGORITHMS FOR AI ACCELERATORS	
10.30 AM - 11.15 AM	KEYNOTE ADDRESS BY BENJAMIN GROSOFF (CHIEF SCIENTIST AND CO-FOUNDER , COHERENT KNOWLEDGE) TITLE OF TALK: AI'S SECRET WEAPON FOR UBIQUITOUS COMPUTING: EXTENDED LOGIC PROGRAMS	

11:15 AM - 11:30 AM	BREAK
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PARALLEL SESSIONS

SESSION 1: BIG DATA, DATA MANAGEMENT AND DATA ANALYTICS

SESSION CHAIR: MD LIAKAT ALI (RIDER UNIVERSITY , USA)

SESSION TIME: 11:30 AM – 1:00 PM (DAY 1: 1st December 2021)

PARTICIPATION LINK: WILL BE UPDATED SOON

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570773965	SqueezeCapsNet - Transfer Learning-Based ASL Interpretation Using SqueezeNet With Multi-Lane Capsules	Sashank Sridhar and Sowmya Sanagavarapu (Anna University, India)
11:45 AM - 12:00 PM	1570775292	A Personalized Virtual Learning Environment Using Multiple Modeling Techniques	Renato R. Maaliw III (Southern Luzon State University, Philippines)
12:00 PM -12:15 PM	1570774244	Privacy-Preserving ID3 Algorithms: A Comparison	Nisha Thorakkattu Madathil (UAE University, United Arab Emirates); Fida Dankar (United Arab Emirates University, United Arab Emirates)
12:15 PM - 12:30 PM	1570773029	Intelligent Cyber Safe Framework for Children	Mohomed Harfath (SLIIT, Sri Lanka)
12:30 PM – 12:45 PM	1570773956	A Conceptual Deep Learning Framework for COVID-19 Drug Discovery	Mohammad (Behdad) Jamshidi (University of West Bohemia, Czech Republic); Jakub Talla (University of West Bohemia in Pilsen, Czech Republic); Ali Lalbakhsh (Macquarie University, Australia); Maryam S. Sharifi-Atashgah (Wittenborg University of Applied Sciences, The Netherlands); Asal Sabet (Texas A&M University, USA); Zdeněk Peroutka (University of West Bohemia, Czech Republic)
12:45 PM - 1:00 PM	1570774289	Blockchain Framework for Secured On-Demand Patient Health Records Sharing	Meryem Abouali (City College of New York, USA); Tarek Saadawi (The City University of New York/The City College, USA); Kartikeya Sharma (City University of New York, USA); Oluwaseyi Ajayi (City College of New York, USA)

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SESSION 2: CLOUD COMPUTING AND DATA CENTER SYSTEMS**SESSION CHAIR: WILLIAM H. BUTLER (CAPITOL TECHNOLOGY UNIVERSITY , USA)****SESSION TIME: 11:30 AM - 1:00 PM (DAY 1: 1st December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570774098	Cloud-Based Machine Learning Techniques Implemented by Microsoft Azure for Designing Power Amplifiers	Mohammad (Behdad) Jamshidi (University of West Bohemia, Czech Republic); Saeed Roshani (Kermanshah Branch, Islamic Azad University, Kermanshah, Iran); Jakub Talla (University of West Bohemia in Pilsen, Czech Republic); Maryam S. Sharifi-Atashgah (Wittenborg University of Applied Sciences, The Netherlands); Sobhan Roshani (Islamic Azad University, Iran); Zdeněk Peroutka (University of West Bohemia, Czech Republic)
11:45 AM - 12:00 PM	1570769773	360 Degree Video Caching With LRU & LFU	Md Milon Uddin (The University of Texas at Tyler, USA); Jounsup Park (University of Texas at Tyler, USA)
12:00 PM -12:15 PM	1570771035	The Requirements of Fog/Edge Computing-Based IoT Architecture	Lama AlAwlaqi, Amaal AlDawod, Ray AlFowzan and Lamya Albraheem (King Saud University, Saudi Arabia)
12:15 PM - 12:30 PM	1570774245	Leaving the Lights on? Exploring Cloud ERP Migrations and IS Discontinuance	Juha A Kinnunen (University of Jyväskylä, Finland)
12:30 PM – 12:45 PM	1570774918	Resource Utilization Based Load Balancing for a Virtualized Security Functions Platform	Haritha Amarasinghe, Windhya Rankothge, Narmada Gamage, Dimuthu Jayasinghe, Theeraka Gamage and Sasanka Uwanpriya (Sri Lanka Institute of Information Technology, Sri Lanka)
12:45 PM - 1:00 PM	1570774412	Development and Implementation of a Home Automation-Type Real Estate Automation Control System-Oriented and Applied to the Elderly Using IoT	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Luis Soto Valqui (Universidad Tecnológica del Perú, Peru)

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SESSION 3: BIG DATA, DATA MANAGEMENT AND DATA ANALYTICS**SESSION CHAIR: SUDARSHAN S. CHAWATHE (UNIVERSITY OF MAINE, USA)****SESSION TIME: 11:30 AM – 1:00 PM (DAY 1: 27th October 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570775427	A Soft Computing Based Customer Lifetime Value Classifier for Digital Retail Businesses	Shithi Maitra (Sheba Platform Limited, Bangladesh); Md. Rakib Ahamed (Ahsanullah University of Science and Technology, Bangladesh); Md. Nazrul Islam (SureCash, Bangladesh); MD Abdullah Al Nasim (Pioneer Alpha, Bangladesh); Mohsena Ashraf (Ahsanullah University of Science and Technology, Bangladesh)
11:45 AM - 12:00 PM	1570774403	Graph and NLP Article Review	Maryam Heidari (George Mason University, USA); Samira Zad (Florida International University, USA); Parisa Hajibabae and Masoud Malekzade (University of Massachusetts at Lowell, USA)
12:00 PM -12:15 PM	1570774558	Analyzing Police Shootings in the US	Eman Abdelfattah and Shreehar Joshi (Ramapo College of New Jersey, USA)
12:15 PM - 12:30 PM	1570767602	The Relation of Online Behavioral Response to Fake News Exposure and Detection Accuracy	Kevin Matthe Caramancion (University at Albany, USA)
12:30 PM – 12:45 PM	1570774405	Who is the Main Source of Fake News in the Global Pandemic? Human or Social Bots? BERT Model for Fake News Detection	Maryam Heidari (George Mason University, USA); Parisa Hajibabae (University of Massachusetts at Lowell, USA); Samira Zad (Florida International University, USA); Masoud Malekzade (University of Massachusetts at Lowell, USA)
12:45 PM - 1:00 PM	1570773990	Efficient Energy Based Dynamic Task Offloading Scheme for Blockchain-Enabled Virtual Wireless Networks	Amani Alshaikhi and Danda B. Rawat (Howard University, USA)

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SESSION 4: ALGORITHMS AND THEORY**SESSION CHAIR : NOUREDDINE CHABINI (ROYAL MILITARY COLLEGE OF CANADA)****SESSION TIME: 11:30 AM – 1:00 PM (DAY 1: 1st December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570774294	An Integrated Expert System With a Supervised Machine Learning Based Probabilistic Approach to Play Tic-Tac-Toe	Muhammad Sakib Khan Inan and Rizwan Hasan (East Delta University, Bangladesh); Tabia Tanzin Prama (Jahangirnagar University, Bangladesh)
11:45 AM - 12:00 PM	1570771601	A Novel Partitioning Scheme for Partial Transmit Sequence Method	Hassan MUSAFAER (University of Bridgeport, USA & School of Engineering, USA); Miad Faezipour (Purdue University, USA)
12:00 PM -12:15 PM	1570772387	A Modified Cross-Correlation Algorithm for Embedded Systems	Luis Rizo-Dominguez (Iteso University, Mexico); Ismael Lopez-Sanchez, Miguel Angel Rosas-Galaviz and Damian Gomez-Herrera (ITESO, Mexico)
12:15 PM - 12:30 PM	1570773987	Ensemble Training With Classifiers Selection Mechanism	Md Syadus Sefat (Virginia Tech, USA); Md Shahjahan (Khulna University of Engineering & Technology, Bangladesh); Mahbubur Rahman (Texas State University - San Marcos, USA); Damian Valles (Texas State University, USA)
12:30 PM – 12:45 PM	1570773989	Enhancement of Energy Harvesting Efficiency in Mobile Wireless Sensor Networks	Amin Al Ka'bi (Australian College of Kuwait, Kuwait)
12:45 PM - 1:00 PM	1570774295	Automatic Identification of Student's Cognitive Style From Online Laboratory Experimentation Using Machine Learning Techniques	Ahmed Mohamed Fahmy Yousef (Fayoum University, Egypt); Ayman Atia (Helwan University, Egypt); Amira Youssef (New Cairo Academy, Egypt); Noha Saad Eldien (October University for Modern Sciences and Arts (MSA), Egypt); ALaa Hamdy (Misr International University, Egypt); Ahmed M. Abd El-Haleem (Helwan University, Egypt); Mahmoud Elmesalawy (Faculty of Engineering, Helwan University, Egypt)

1:00 PM – 1:15 PM**BREAK****All the timings are given in Eastern Standard Time (EST (UTC-5))**

PARALLEL SESSIONS

SESSION 5: SECURITY AND ALGORITHM

SESSION CHAIR : TAMER OMAR (CALIFORNIA STATE POLYTECHNIC UNIVERSITY – POMONA)

SESSION TIME: 1:15 PM – 2:45 PM (DAY 1: 1st December 2021)

PARTICIPATION LINK: WILL BE UPDATED SOON

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570775332	Development of Cable Operator Management System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:30 PM – 1:45 PM	1570774343	Intelligent Virtual Tutor for Online Laboratory Experiments Based on Modelling the Student's Mouse Interaction Behavior	Ayman Atia (October University for Modern Sciences and Arts (MSA), Egypt); Ahmed Mohamed Fahmy Yousef (Fayoum University, Egypt); ALaa Hamdy (Misr International University, Egypt); Ahmed M. Abd El-Haleem (Helwan University, Egypt); Mahmoud Elmesalawy (Faculty of Engineering, Helwan University, Egypt)
1:45 PM - 2:00 PM	1570774340	Neural Network Based Glitch Physically Unclonable Function	Yusuke Nozaki and Masaya Yoshikawa (Meijo University, Japan)
2:00 PM – 2:15 PM	1570772875	Boosting Models With Tree-Structured Parzen Estimator Optimization to Detect Intrusion Attacks on Smart Grid	Tala Talaei Khoei, Shereen Ismail and Naima A Kaabouch (University of North Dakota, USA)
2:15 PM – 2:30 PM			
2:30 PM – 2:45 PM	1570774894	Machine Learning Application Lifecycle Augmented With Explanation and Security	Saikat Das (Midwestern State University, USA); Sajjan Shiva (University of Memphis, USA)

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SESSION 6: SECURITY AND PRIVACY**SESSION CHAIR : MUATH OBAIDAT (JOHN JAY COLLEGE , USA)****SESSION TIME: 1:15 PM – 2:45 PM (DAY 1: 1st December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570768100	Implementing CRYSTAL-Dilithium on FRDM-K64	K. Denisse Ortega L. and Luis J. Dominguez Perez (ITESO, Mexico)
1:30 PM – 1:45 PM	1570774291	Enhancing Low-Energy Facial Recognition Devices and Abilities To Improve Security: A Practical Study	Kenneth C.K. Wong (Simon Fraser University & BCNET, Canada); Aaron Hunter (BCIT, Canada)
1:45 PM - 2:00 PM	1570768647	COVID-19 Contact Tracing Using BLE and RFID for Data Protection and Integrity	Harish Anantharajah, Karanveer Harika and Andrew Jayasinghe (British Columbia Institute of Technology, Canada); Michal Aibin (British Columbia Institute of Technology, Canada & Northeastern University, USA)
2:00 PM – 2:15 PM	1570770471	A Lightweight and Fog-Based Authentication Scheme for Internet-Of-Vehicles	Jamal Alotaibi (8621 Canfield Dr & Wayne State University, USA); Lubna Alazzawi (Waynes State University, USA)
2:15 PM – 2:30 PM	1570767913	Top Reported Data Security Risks in the Age of COVID-19	Suzanna Schmeelk (St. John's University, USA); Kutub Thakur (New Jersey City University, USA); Md L Ali (Rider University, USA); Denise Dragos (St. John's University, USA); Abdullah Al Hayajneh (New Jersey City University, USA); Bryan Pramana (Baruch College, USA)
2:30 PM – 2:45 PM	1570766163	Bypassing Fingerprint Scanners Using Artificial Fingerprints	Kerry C Ford and Michael Otis (SUNY New Paltz, USA); Casimer DeCusatis (Marist College, USA)

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SESSION 7: CLOUD COMPUTING AND SECURITY**SESSION CHAIR: JAIMIE KELLEY (WITTENBERG UNIVERSITY , USA)****SESSION TIME: 1:15 PM – 2:45 PM (DAY 1: 1st December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570770580	Autonomous Cyber AI for Network Anomaly Detection	Hashmi Hussain (Srilanka Institute of Information Technology, Sri Lanka)
1:30 PM – 1:45 PM	1570772727	Secret Key Steganography: Improve Security Level of LSB Algorithm	Ahmed Imad Hammoodi Al-Jarah (Universidad Nacional Autónoma de México & Tecnológico de Monterrey, Mexico); Jorge Luis Ortega-Arjona (Universidad Autónoma de México, Mexico)
1:45 PM - 2:00 PM	1570772614	Development of an Online Based Babysitting System: Bonne	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
2:00 PM – 2:15 PM	1570773738	Information Security Assessment on Court Tracking Information System: A Case Study From Mataram District Court	Aishananda Shavira Auliani and Candiwan Candiwan (Telkom University, Indonesia)
2:15 PM – 2:30 PM	1570774188	Development of Web Based Online One Stop Platform to Fight Covid-19	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
2:30 PM – 2:45 PM	1570774035	BotsideP2P: A Peer-To-Peer Botnet Testbed	Adam Beauchaine, Mira Yun and Orion Collins (Wentworth Institute of Technology, USA)

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SESSION 8: SECURITY AND PRIVACY**SESSION CHAIR : SHAHAB TAYEB (CALIFORNIA STATE UNIVERSITY, FRESNO)****SESSION TIME: 1:15 PM – 2:45 PM (DAY 1: 1st December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570772722	Evaluating True Cryptographic Key Space Size	Albert H Carlson (Austin Community College, USA); Garret Gang (Schweitzer Engineering Laboratories, USA); Torsten Gang (Infosys Corp., India); Bhaskar Ghosh (University of Louisiana at Lafayette, USA); Indira K Dutta (Arkansas Tech University, USA)
1:30 PM – 1:45 PM	1570774022	Phishing Attacks Detection: A Machine Learning Based Approach	Fatima Salahdine (University of North Carolina at Charlotte, USA); Zakaria Elmrbabet and Naima Kaabouch (University of North Dakota, USA)
1:45 PM - 2:00 PM	1570773748	Trustful Remote-Sensing Architectures Based on Hardware-Security	Dominic Pirker and Thomas Fischer (Graz University of Technology & Infineon Technologies AG, Austria); Harald Witschnig (Infineon Technologies AG, Austria); Rainer Matischek (Infineon Technologies, Austria); Christian Steger (Graz University of Technology, Austria)
2:00 PM – 2:15 PM	1570775418	Secure and Fraud Proof Online Payment System for Credit Cards	Baker Al Smadi (Grambling State University, USA); Ali Abdullah S. AlQahtani (North Carolina A&T State University, USA); Hosam Alamleh (University of North Carolina Wilmington & Louisiana Tech University, USA)
2:15 PM – 2:30 PM	1570773981	Privacy-Preserving Localization Using Enclaves	Arslan Khan (Purdue University, USA); Joseph I. Choi (University of Florida, USA); Dave Tian (Purdue University, USA); Tyler Ward, Kevin Butler, Patrick Traynor, John M. Shea and Tan Wong (University of Florida, USA)
2:30 PM – 2:45 PM	1570775442	Reversible Attack Trees	Aliyu Tanko Ali and Damas Gruska (Comenius University in Bratislava, Slovakia)

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DAY 2: 2nd December 2021

TIME	NAME OF THE EVENT	PARTICIPATION LINK
9.00 AM – 9:45 AM	KEYNOTE ADDRESS BY MOR HARCHOL-BALTER (PROFESSOR, CARNEGIE MELLON UNIVERSITY) TITLE OF TALK: RECENT BREAKTHROUGHS IN STOCHASTIC SCHEDULING THEORY	WILL BE UPDATED SOON
9:45 AM - 10.30 AM	KEYNOTE ADDRESS BY CELINE HAN (PRINCIPAL SCIENTIST , BRISTOL MYERS SQUIBB)	
10.30 AM - 11.15 AM	KEYNOTE ADDRESS BY KRISHNA SARASWAT (PROFESSOR, STANFORD UNIVERSITY) TITLE OF TALK: EMERGING INTERCONNECT TECHNOLOGIES FOR NANOELECTRONICS	

11:15 AM – 11:30 AM	BREAK
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PARALLEL SESSIONS

SESSION 9: ENERGY MANAGEMENT AND GREEN COMPUTING

SESSION CHAIR : CLEONILSON PROTÁSIO DE SOUZA (FEDERAL UNIVERSITY OF PARAÍBA - BRAZIL)

SESSION TIME: 11:30 AM – 12:45 PM (DAY 2: 2nd December 2021)

PARTICIPATION LINK: WILL BE UPDATED SOON

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570773533	Design of a Prototype for Water Desalination Plant Using Flexible, Low-Cost Titanium Dioxide Nanoparticles	Sario Angel Chamorro Quijano, Jean Pierre Arce Misajel and Steve Torres Rojas (Universidad Continental, Peru); Ruth Manzanares Grados (Universidad Privada del Norte, Peru); Dominick Cruz Esteban (Universidad Continental, Peru); Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru)
11:45 AM - 12:00 PM	1570774263	Analysis of Different Mobile IoT Models in Smart City Planning: A Technical Investigation of Software & Hardware Architecture	Md Ashraful Kabir and MD Shahrukh Khan (Canadian University of Bangladesh, Bangladesh); Kazi Mahtab Kadir (University of Asia Pacific, Bangladesh); Yoong Choon Chang (Universiti Tunku Abdul Rahman, Malaysia); Fiza Jefreen and Md. Hasanuzzaman (Canadian University of Bangladesh, Bangladesh)
12:00 PM -12:15 PM	1570773485	Artificial Intelligence (AI) to Study Self-Discharge Batteries	Diego Cordova (Stony Brook University, USA); Gregory Medwig, Abhijith Variathu Roy and Supriya Karmakar (Farmingdale State College-SUNY, USA)
12:15 PM - 12:30 PM	1570774279	Design and Implementation of Automatic Smart Irrigation System	Rashedur M Rahman, Mohammad Taz Uddin and Tanvir Ahmed Chowdhury (North South University, Bangladesh)
12:30 PM – 12:45 PM	1570774279	Design and Implementation of Automatic Smart Irrigation System	Rashedur M Rahman, Mohammad Taz Uddin and Tanvir Ahmed Chowdhury (North South University, Bangladesh)

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SESSION 10: SENSOR NETWORKS & SYSTEMS**SESSION CHAIR: SHAMSAD PARVIN (STATE UNIVERSITY OF NEW YORK AT MORRISVILLE , USA)****SESSION TIME: 11:30 AM – 1:00 PM (DAY 2: 2nd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570775224	DenCity: A WiFi Location Tracking Solution	Joseph Spanilo, David Edwards, Sunjae Y Park and Mira Yun (Wentworth Institute of Technology, USA)
11:45 AM - 12:00 PM	1570772857	A Comparative Study of Machine Learning Models for Cyber-Attacks Detection in Wireless Sensor Networks	Shereen Ismail, Tala Talaei Khoei, Ronald Marsh and Naima A Kaabouch (University of North Dakota, USA)
12:00 PM -12:15 PM	1570775336	Analyzing Food Consumption and Human Activity for Non-Intrusive Blood Glucose Monitoring	Mohamed Amr Samir (October University for Modern Sciences and Arts (MSA), Egypt); Zeinab Mohamed (University of South Florida (USF), USA); Ayman Atia (October University for Modern Sciences and Arts (MSA), Egypt); Mona A. hussein (National Institute of Diabetes and Endocrinology, Egypt)
12:15 PM - 12:30 PM	1570775429	Smart Campus for Better Study Spaces	Sean Hicks, Christian Huang, Eunseo Lee, Kushal Patel and Gregg Vesonder (Stevens Institute of Technology, USA)
12:30 PM – 12:45 PM	1570774067	An FPGA Based Multi-Sensor Atmospheric Testing Device for Confined Spaces	Sofian Abbasi and Soleil Gignac (University of Houston-Clear Lake, USA); Hakduran Koc (University of Houston - Clear Lake, USA)
12:45 PM - 1:00 PM	1570773876	A Microservice-Based Platform for IoT Application Development	Guido Porruvecchio and Alessandro Romanino (CRS4 - Center for Advanced Studies, Research and Development in Sardinia, Italy); Carlino Casari (CRS4, Italy); Raffaella Sanna (CRS4 - Center for Advanced Studies, Research and Development in Sardinia, Italy)

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SESSION 11: NATURAL LANGUAGE PROCESSING AND CLOUD COMPUTING**SESSION CHAIR: XIANTA JIANG (MEMORIAL UNIVERSITY OF NEWFOUNDLAND, CANADA)****SESSION TIME: 11:30 AM – 12:45 PM (DAY 2: 2nd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570772425	Analyzing Human Abilities to Detect Fake Bangla News With Respect to Different Features	Rashedur M Rahman, Abdul Motaleb, Aakib Bin Nesar, Joytun Nur Sultana, Md. Aminul Islam, Iftekhar Mahmud Tahir and Md. Mansur Ahmed (North South University, Bangladesh)
11:45 AM - 12:00 PM	1570772691	Bangla Hate Speech Detection in Videos Using Machine Learning	Mohd. Istiaq Hossain Junaid, Faisal Hossain and Rashedur M Rahman (North South University, Bangladesh)
12:00 PM -12:15 PM	1570773157	Mapping Chinese Oracle-Bone Glyphs to Simplified Glyphs With Generative Adversarial Networks	Xiaoyu Long (Purdue University Northwest, USA); Xianping Wang (Purdue University of Northwest, USA); Ricardo Calix (Purdue University Northwest - Calumet Campus, USA); Tae-Hoon Kim and Keyuan Jiang (Purdue University Northwest, USA)
12:15 PM - 12:30 PM	1570774193	Demystifying Black-Box Learning Models of Rumor Detection From Social Media Posts	Faiza Tafannum, Mir Nafis Sharear Shopnil, Anika Salsabil and Navid Ahmed (Brac University, Bangladesh); Md. Golam Rabiul Alam (BRAC University, Bangladesh); Md Tanzim Reza (Brac University, Bangladesh)
12:30 PM – 12:45 PM	1570775312	Development of Web and Mobile Based Smart Online Healthcare System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Suneet Kumar Gupta (Bennett University Gr Noida, India)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 12: SENSOR NETWORKS & SYSTEMS , NATURAL LANGUAGE PROCESSING**SESSION CHAIR: HUSSAIN AL-ASAAD (UNIVERSITY OF CALIFORNIA – DAVIS , USA)****SESSION TIME: 11:30 AM – 1:00 PM (DAY 2: 2nd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570775313	A Voltage Producing Smart Wheelchair Development With Heartbeat Monitoring System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Rajesh Dey (Asst Prof, India); Ipseeta Nanda (unknown); Debasis Mukherjee (Brainware University, India)
11:45 AM - 12:00 PM	1570775274	Development of A Low-Cost CNC Machine Laser Engraver	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Ipseeta Nanda (unknown); Debasis Mukherjee (Brainware University, India); Rajesh Dey (Asst Prof, India)
12:00 PM -12:15 PM	1570769929	Categorizing Chinese Glyphs With Convolutional Neuron Network	Xiaoyu Long (Purdue University Northwest, USA); Xianping Wang (Purdue University of Northwest, USA); Ricardo Calix (Purdue University Northwest - Calumet Campus, USA); Tae-Hoon Kim and Keyuan Jiang (Purdue University Northwest, USA)
12:15 PM - 12:30 PM	1570773588	Interactive Attention Network for Chinese Address Element Recognition	Yusheng Bi, Lihua Tian and Chen Li (Xi'an Jiaotong University, China)
12:30 PM – 12:45 PM	1570773362	An IoT-Enabled Acoustic Sensing Platform for Noise Pollution Monitoring	Dolvara Gunatilaka (Mahidol University, Thailand)
12:45 PM - 1:00 PM	1570775321	Research and Development of Multipurpose Unmanned Aerial Vehicle (Flying Drone)	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

All the timings are given in Eastern Standard Time (EST (UTC-5))**1:00 PM – 1:15 PM****BREAK**

PARALLEL SESSIONS

SESSION 13: FILE AND STORAGE SYSTEMS , ARTIFICIAL INTELLIGENCE

SESSION CHAIR: HEBA MOHAMED ELGAZZAR (MOREHEAD STATE UNIVERSITY , USA

SESSION TIME: 1:15 PM – 2:45 PM (DAY 2: 2nd December 2021)

PARTICIPATION LINK: WILL BE UPDATED SOON

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570770597	Joint Disaster Classification and Victim Detection Using Multi-Task Learning	Yi Jie Wong (Universiti Tunku Abdul Rahman, Malaysia); Tham Mau Luen (UTAR, Malaysia); Ban Hoe Kwan (Universiti Tunku Abdul Rahman, Malaysia); Yasunori Owada (National Institute of Information and Communications Technology, Japan); Myint Myint Sein (University of Computer Studies, Yangon, Myanmar); Yoong Choon Chang (Universiti Tunku Abdul Rahman, Malaysia)
1:30 PM – 1:45 PM	1570774137	Inferring Human Activity Using Wearable Sensors	Sudarshan S Chawathe (University of Maine, USA)
1:45 PM - 2:00 PM	1570774350	Internet of Things (IoT) Based Patient Fall Prediction and Monitoring System	Devin Heng, Ethan Santos, Timothy Kheang, Kevin Nguyen, Hariharan Duraisamy and Sooriya Raju (California State University Fullerton, USA); Kiran George (California State University, Fullerton, USA)
2:00 PM – 2:15 PM	1570773879	Designing a System Based on Robotic Assistance for Privacy Awareness in Smart Environments	Ilche Georgievski, Isaac Henderson Jeyakumar and Shrilesh Kale (University of Stuttgart, Germany)
2:15 PM – 2:30 PM	1570773962	Visual Pollution Detection Using Google Street View and YOLO	Rashedur M Rahman, Md. Yearat Hossain, Ifran Rahman Nijhum, Abu Adnan Sadi and Md Tazin Morshed Shad (North South University, Bangladesh)
2:30 PM – 2:45 PM	1570774361	The Development of an Information System	Kristin Kim (Stevens Institute of TEchnology, USA); Andy Molla, Christian Szablewski-Paz, Ashna Razdan, Elijah Wendel and Gregg Vesonder (Stevens Institute of Technology, USA)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 14: ARTIFICIAL INTELLIGENCE & INTERNET OF THINGS**SESSION CHAIR: MEHDI ROOPAEI (UNIVERSITY OF WISCONSIN-PLATTEVILLE USA)****SESSION TIME: 1:15 PM – 2:45 PM (DAY 2: 2nd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570774283	A Smart and Intelligent Home Automation System	Rashedur M Rahman, Rahat Bin Aziz Tonoy, Mahmudun Nabi and Hasan Mohiuddin Zilany (North South University, Bangladesh)
1:30 PM – 1:45 PM	1570775311	Sum Rate Maximization of D2D Networks With Energy Constrained UAVs Through Deep Unsupervised Learning	Benjamin Lea (Thompson Rivers University, Canada); Debaditya Shome (KIIT University, India); Omer Waqar (Thompson Rivers University (TRU), Canada); Javed Tomal (Thompson Rivers University, Canada)
1:45 PM - 2:00 PM	1570774277	Smart Fire Detection and Security System	Rashedur M Rahman, Adnan Al Neon, Sal Sabila and Manzar E Hassin (North South University, Bangladesh)
2:00 PM – 2:15 PM	1570772377	IoT in Health Care Industry: A Promising Prospect	Tauheed Khan Mohd, Kashav Piya, Quinn Au, Srijal Shrestha and Apoorva Singh (Augustana College, USA)
2:15 PM – 2:30 PM	1570773451	Classifying Plastic Waste on River Surfaces Utilising CNN and Tensorflow	Jack McShane, Kevin Meehan and Eoghan Furey (Letterkenny Institute of Technology, Ireland); Marion McAfee (Institute of Technology Sligo, Ireland)
2:30 PM – 2:45 PM	1570775416	Server-Side Distinction of Incoming Traffic Transmission Medium Using Machine Learning	Hosam Alamleh (University of North Carolina Wilmington & Louisiana Tech University, USA); Kevin Waters (University of North Carolina Wilmington, USA); Baker Al Smadi (Grambling State University, USA)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 15: ARTIFICIAL INTELLIGENCE & INTERNET OF THINGS**SESSION CHAIR: MEHDI ADDA (UNIVERSITY OF QUEBEC AT RIMOUSKI , CANADA)****SESSION TIME: 1:15 PM – 2:45 PM (DAY 2: 2nd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570772615	CNN Based COVID-19 Prediction From Chest X-Ray Images	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:30 PM – 1:45 PM	1570774897	Buffer-Aided Collision Resolution for UHF RFID	Gan Luan (Hainan University, China); Norman C Beaulieu (Beijing University of Posts and Telecommunications BUPT, China)
1:45 PM - 2:00 PM	1570770394	Basketball Shot Analysis Based on Goal Assembly Disturbance	Biruk E Tegicho (North Carolina A&T State University, USA); Michael Chestnut II (North Carolina Agriculture and Technical State University, USA); Daniel Webb and Corey Graves (North Carolina A&T State University, USA)
2:00 PM – 2:15 PM	1570775432	Spatiotemporal Data of Vegetation Images for Convolutional Neural Network: Okra Case Study	Narongrit Waraporn (KMUTT, Thailand); Barakatullah Azizi (King Mongkut's University of Technology Thonburi, Thailand)
2:15 PM – 2:30 PM	1570768082	Guide-Me: Voice Authenticated Indoor User Guidance System	Lahiru V Dissanayake, Resara Rajapaksha, Pasindu Prabhashawara and Sahan Solanga (Sri Lanka Institute of Information Technology, Sri Lanka); Jayakody Arachchilage Don Chaminda Anuradha Jayakody (Curtin University Technology & Sri Lanka Institute of Information Technology, Sri Lanka)
2:30 PM – 2:45 PM	1570770357	A Study on Machine Learning Supervised and Deep Learning Algorithms to Predict the Risk of Patients Ten Year Coronary Heart Disease	Md Imtiaz Ahmed (Daffodil Institute of IT, Bangladesh); Fatima Shefaq (North South University, Bangladesh)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 16: ARTIFICIAL INTELLIGENCE & INTERNET OF THINGS, INFORMATION RETRIEVAL**SESSION CHAIR: HAYSSAM EL-RAZOUK (CALIFORNIA STATE UNIVERSITY, FRESNO)****SESSION TIME: 1:15 PM – 2:45 PM (DAY 2: 2nd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570771709	Using CNN and TensorFlow to Recognise "Signal for Help" Hand Gestures	Gavin Elliott, Kevin Meehan and Jennifer Hyndman (Letterkenny Institute of Technology, Ireland)
1:30 PM – 1:45 PM	1570773892	Learning Focal Point Algorithm	Salah-Eddine Mansour (University Hassan II of Casablanca & University Hassan II, France); Abderrahim Sekkaki (University, Morocco); Abdelhak Sakhi (University Hassan II of Casablanca & IT Laboratory, Morocco); Larbi Kzaz (ISCAE, Morocco)
1:45 PM - 2:00 PM	1570774309	Development of Smart Egg Incubator	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
2:00 PM – 2:15 PM	1570768002	COC-LBP: Complete Orthogonally Combined Local Binary Pattern for Face Recognition	Shekhar Karanwal (Graphic Era Deemed to Be University Dehradun Uttarakhand, India)
2:15 PM – 2:30 PM	1570774559	Stock Market Prediction Using Recurrent Neural Network's LSTM Architecture	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Suneet Kumar Gupta (Bennett University Gr Noida, India)
2:30 PM – 2:45 PM	1570775420	Smart Vehicle Communication System for Collision Avoidance	Milinda Nimesha Ranawaka (Sri Lanka Institute of Information Technology, Sri Lanka); Kavindu Sandeepa Liyanage (SLIIT & Sri Lanka Institute of Information Technology, Sri Lanka); Sewvandi Wickramasinghe (Sri Lanka Institute of Information Technology & IFS, Sri Lanka); Shanika Chandrasekara, Sanjeevi Sashikala Chandrasiri and Ishara Weerathunga (Sri Lanka Institute of Information Technology, Sri Lanka)

All the timings are given in Eastern Standard Time (EST (UTC-5))

DAY 3: 3rd December 2021

TIME	NAME OF THE EVENT	PARTICIPATION LINK
9.00 AM – 9:45 AM	KEYNOTE ADDRESS BY NINGHUI LI (PROFESSOR, PURDUE UNIVERSITY) TITLE OF TALK: ANALYZING PROXIMITY-BASED CONTACT TRACING PROTOCOLS	WILL BE UPDATED SOON
9:45 AM - 10.30 AM	KEYNOTE ADDRESS BY CARLO MENON (PROFESSOR, ETH ZURICH)	
10.30 AM - 11.15 AM	KEYNOTE ADDRESS BY TSACHY (ITSCHAK) WEISSMAN (PROFESSOR, STANFORD UNIVERSITY) TITLE OF TALK: HUMAN INSPIRED COMPRESSION OF MULTIMEDIA DATA	

11:15 AM - 11:30 AM	BREAK
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WORKSHOP	
Workshop on Internet of Things (IoT) using Raspberry Pi virtual machines (VMs) By Dr. Phillip Bradford (University of Connecticut, Stamford, USA)	11.30 AM – 2.30 PM
PARTICIPATION LINK: WILL BE UPDATED SOON	

All the timings are given in Eastern Standard Time (EST (UTC-5))

PARALLEL SESSIONS

SESSION 17: SIGNAL AND IMAGE PROCESSING

SESSION CHAIR : NOUREDDINE CHABINI (ROYAL MILITARY COLLEGE OF CANADA)

SESSION TIME: 11:30 AM – 1:00 PM (DAY 3: 3rd December 2021)

PARTICIPATION LINK: WILL BE UPDATED SOON

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570774307	Environment Classification and Deinterleaving Using Siamese Networks and Few-Shot Learning	Cesar Martinez Melgoza, Kayla J Lee, Henry Lin, Tyler Groom, Kiran George, Acacia Coddling and Ameya Govalkar (California State University, Fullerton, USA)
11:45 AM - 12:00 PM	1570774281	Neuromarketing Study Using Machine Learning for Predicting Purchase Decision	Maria Ramirez (California State University, Fullerton, USA); Shima Kaheh (California State University of Fullerton, USA); Kiran George (California State University, Fullerton, USA)
12:00 PM -12:15 PM	1570772564	Extraction of Respiration Rate From Wrist ECG Signals	Mahfuzur Rahman and Bashir I Morshed (Texas Tech University, USA)
12:15 PM - 12:30 PM	1570762458	An Innovative Approach on Driver's Drowsiness Detection Through Facial Expressions Using Decision Tree Algorithms	Monica Abad; James Carlisle Genavia; Jaybriel Lincon Somcio; and Larry Vea (Mapua University, Philippines)
12:30 PM – 12:45 PM	1570773428	Neural Network Generative Models for Radio Frequency Data	Amit Bhatia and Joseph Carmack (BAE Systems, USA); Joshua Robinson (BAE Systems, Inc., USA); John Majewski and Scott Kuzdeba (BAE Systems, USA)
12:45 PM - 1:00 PM	1570768064	A 2-D Processing Method to Image Targets From Data Collected by Narrowband Radars	Jean E Piou (MIT, USA)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 18: SIGNAL AND IMAGE PROCESSING**SESSION CHAIR: SHAMSAD PARVIN (STATE UNIVERSITY OF NEW YORK AT MORRISVILLE , USA)****SESSION TIME: 11:30 AM – 12:45 PM (DAY 3: 3rd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570775328	Design of an IoT Based Gas Wastage Monitoring, Leakage Detecting and Alerting System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
11:45 AM - 12:00 PM	1570772366	Plagiarism Detection Tool for Enhanced Entity-Relationship Diagrams	Hasindu Dahanayake, Damish Samarajeewa, Arosha Jayathilake, Dinithi Bandara, Anuradha Karunasena and Lokesha Weerasinghe (Sri Lanka Institute of Information Technology, Sri Lanka)
12:00 PM -12:15 PM	1570773627	Mitigating the Time-Varying Doppler in High-Mobility Wireless Communications With Fractional Fourier Transform	Amir Raeisi Nafchi and Mona Esmaeili (University of New Mexico, USA); Eric Hamke (University of new Mexico, USA); Balu Santhanam, Ramiro Jordan and Alireza Ghasempour (University of New Mexico, USA)
12:15 PM - 12:30 PM	1570774339	Using EEG and fNIRS Measurements for Analysis on the Effects of Heat Stress on Short-Term Memory Performance	Javier De La Cruz, Douglas Shimizu and Kiran George (California State University, Fullerton, USA)
12:30 PM – 12:45 PM	1570768332	A Multi-Memory Field-Programmable Custom Computing Machine for Accelerating Compute-Intensive Applications	Shrikant S Jadhav (San Jose State University, USA); Clay Gloster (NC A & T University, USA); Jannatun Naher (North Carolina A&T State University, USA); Christopher Doss (North Carolina A & T State University, USA); Young Soo Kim (Bradley University, USA)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 19: MACHINE LEARNING**SESSION CHAIR: XIANTA JIANG (MEMORIAL UNIVERSITY OF NEWFOUNDLAND, CANADA)****SESSION TIME: 11:30 AM – 1:00 PM (DAY 3: 3rd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570775816	Diabetic Retinopathy Classification With Pre-Trained Image Enhancement Model	Wahidullah Mudaser (King Mongkut's University of Technology Thonburi, Thailand)
11:45 AM - 12:00 PM	1570774286	An Innovative Method for Automatic American Sign Language Interpretation Using Machine Learning and Leap Motion Controller	Jon Jenkins and Sherif S. Rashad (Morehead State University, USA)
12:00 PM -12:15 PM	1570772687	Explainable Customer Segmentation Using K-Means Clustering	Riyo Hayat Khan, Dibyo Fabian Dofadar and Md. Golam Rabiul Alam (BRAC University, Bangladesh)
12:15 PM - 12:30 PM	1570772384	A Novel SVM Voltage Supervisor	Luis Rizo-Dominguez (Iteso University, Mexico); Francisco-Jose Rodriguez-Garcia (ITESO, Mexico)
12:30 PM – 12:45 PM	1570775238	Tree-Based Supervised Machine Learning Models for Detecting GPS Spoofing Attacks on UAS	Ghilas Aissou, Hadjar Ould Slimane, Selma Benouadah and Naima A Kaabouch (University of North Dakota, USA)
12:45 PM - 1:00 PM	1570774360	Real-Time Dynamic Object Recognition and Grasp Detection for Robotic Arm Using Streaming Video: A Design for Visually Impaired Persons	Francis X Liri, Henry Lin, Kayla J Lee, Brian Fonseca, Nate Ruppert, Kiran George and Anand Panangadan (California State University, Fullerton, USA)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 20: ELECTRONIC INSTRUMENTATIONS**SESSION CHAIR : CLEONILSON PROTÁSIO DE SOUZA (FEDERAL UNIVERSITY OF PARAÍBA - BRAZIL)****SESSION TIME: 11:30 AM – 1:00 PM (DAY 3: 3rd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570765971	DC-DC Boost Converter for Wireless Power Transfer Systems	Kavyashree Puttananjegowda (University of California, USA); Yaoyu Cao (University of California Irvine, USA); Michael M Green (University of California, Irvine, USA)
11:45 AM - 12:00 PM	1570773458	Development of an IoT System Using ESP8266 for the Detection of Asthma Triggering Allergens in Children	Jason Alanya Villanueva, Danitza Yalli Villa and Angel Bello Merlo (Universidad Continental, Peru); Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Carlos Coaquira Rojo (Universidad Continental, Peru)
12:00 PM -12:15 PM	1570774274	Design of an Automated System for Cattle-Feed Dispensing in Cattle-Cows	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Iraiz Quintanilla Mosquera, Jesus Eduardo Rosales Fierro, Jhon Ortiz Zacarias, Jhamir Beltran Montero and Sario Angel Chamorro Quijano (Universidad Continental, Peru)
12:15 PM - 12:30 PM	1570773454	Portable Heating System With Carbon Fiber to Reduce the Mortality of Alpacas in the High Andean Areas	Danitza Yalli Villa, Jason Alanya Villanueva and Angel Bello Merlo (Universidad Continental, Peru); Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Carlos Coaquira Rojo (Universidad Continental, Peru)
12:30 PM – 12:45 PM	1570775828	Low-Cost Open Source IoT-Based SCADA System Using ESP32 and Arduino IoT Cloud	Mohammad Tariq Iqbal and Cyprian N. Oton (Memorial University of Newfoundland, Canada)
12:45 PM - 1:00 PM	1570774336	Research and Development of Wireless Smart Temperature and Humidity Monitoring System via Bluetooth Module and Mobile Application	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

1:00 PM – 1.15 PM	BREAK
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All the timings are given in Eastern Standard Time (EST (UTC-5))

PARALLEL SESSIONS

SESSION 21: ELECTRONIC POWER CONVERTERS, CONTROL THEORY AND APPLICATIONS

SESSION CHAIR : TAMER OMAR (CALIFORNIA STATE POLYTECHNIC UNIVERSITY – POMONA)

SESSION TIME: 1:15 AM – 2:45 PM (DAY 3: 3rd December 2021)

PARTICIPATION LINK: WILL BE UPDATED SOON

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570773430	Parallel Robots in Rehabilitation and Assistance: An Innovative Review	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Arturo Tadeo Gabriel, Robert Chavez Raraz and Katerim Serrano Guzman (Universidad Continental, Peru)
1:30 PM – 1:45 PM	1570773512	Comparison Analysis of FIR, ARX, ARMAX by Least-Squares Estimation of the Temperature Variations of a Pasteurization Process	Sario Angel Chamorro Quijano, Sliver Del Carpio Ramirez, Jhon Ortiz Zacarias and Jalber Macuri Vasquez (Universidad Continental, Peru); Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru)
1:45 PM - 2:00 PM	1570773433	Types of Lower Limb Orthoses for Rehabilitation and Assistance: A Systematic Review	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Jhon Ortiz Zacarias, Joel Asto Evangelista and Iraiz Quintanilla Mosquera (Universidad Continental, Peru)
2:00 PM – 2:15 PM	1570774264	Design and Analysis of an Isolated DC-Microgrid for a Remote Community in Pakistan	Mirza Jabbar Aziz Baig, Mohammad Tariq Iqbal and Mohsin Jamil (Memorial University of Newfoundland, Canada); M. Khan (BC Hydro and Power Authority, Canada)
2:15 PM – 2:30 PM	1570774318	Development of a Hybrid Power Generation System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
2:30 PM – 2:45 PM	1570773624	Real-Time Dead-Time Optimization in a GaN-Based Boost Converter Using a Digital Controller	Mohsin Asad (Indian Institute of Technology, India)

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SESSION 22: ROBOTICS AND AUTONOMOUS SYSTEMS**SESSION CHAIR: BALASUBRAMANIYAN CHANDRASEKARAN (FLORIDA POLYTECHNIC UNIVERSITY , USA)****SESSION TIME: 1:15 AM – 2:45 PM (DAY 3: 3rd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570775333	Brain Wave and Head Motion Controlled Music System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Mahmudun Nabi (North South University, Bangladesh); Md. Rashidul Hasan Abir (Northsouth University, Bangladesh)
1:30 PM – 1:45 PM	1570773457	Design, Simulation and Control of a 2 DOF Robotic Arm for Correction and Training of Craft Turning	Danitza Yalli Villa, Jason Alanya Villanueva, Angel Bello Merlo and Carlos Perea Fabián (Universidad Continental, Peru)
1:45 PM - 2:00 PM	1570774592	Development of an Automated Medicart for Covid-19 and Other Contagious Diseases Application	Farhan Ishraq, Saif Mahmud Aunik, Mir Mohiuddin Md Abdullah and Md. Abdur Razzak (Independent University, Bangladesh)
2:00 PM – 2:15 PM	1570772379	Heterogenous Computing and the Real-World Applications	Tauheed Khan Mohd, Viet Bui, Trung Pham, Huy Nguyen and Hoang Nhi (Augustana College, USA)
2:15 PM – 2:30 PM	1570766333	Design a Hand Orthosis to Aid Post-Stroke Patients With Hemiplegia	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Jhuliño Oroya and David Oroya (Universidad Continental, Peru)
2:30 PM – 2:45 PM	1570774303	Design and Implementation of PID-Based Steering Control for 1/10-Scale Autonomous Vehicle	Victor I Robila (Hunter College High School, USA); Laura Paulino (Montclair State University, USA); Mihir Rao (Chatham High School, USA); Iris Li (Milburn High School, USA); Michelle M. Zhu and Weitian Wang (Montclair State University, USA)

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SESSION 23: ROBOTICS , AD HOC NETWORKS**SESSION CHAIR: MUHAMMAD ABID (FLORIDA POLYTECHNIC UNIVERSITY , USA)****SESSION TIME: 1:15 AM – 2:45 PM (DAY 3: 3rd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570775417	Comparative Analysis of Underwater Positioning and Navigation Systems	Hosam Alamleh (University of North Carolina Wilmington & Louisiana Tech University, USA); Ali Abdullah S. AlQahtani (North Carolina A&T State University, USA); Baker Al Smadi (Grambling State University, USA)
1:30 PM – 1:45 PM	1570765981	Ground Robots for Inspection and Monitoring: A Detailed and Innovative Review	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Danitza Yalli Villa, Angel Bello Merlo and Jalber Macuri Vasquez (Universidad Continental, Peru)
1:45 PM - 2:00 PM	1570769448	Utilizing Wi-Fi Access Points for Unmanned Aerial Vehicle Localization for Building Indoor Inspection	Mohammed Sulaiman (Western Michigan University, USA); Ali Abdullah S. AlQahtani (North Carolina A&T State University, USA); Hexu Liu and Mohamed Binalhaj (Western Michigan University, USA)
2:00 PM – 2:15 PM	1570774292	Control and Monitoring System of Hydraulic Parameters for Rainbow Trout Culture	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Alem Huayta Uribe, Jalber Macuri Vasquez and Alexander Claudio Miranda Yauri (Universidad Continental, Peru)
2:15 PM – 2:30 PM	1570765053	Selective MIMO in Vehicular Communication for Reliable Safety Services and High Speed Non-Safety Services	Utpal Kumar Dey and Robert Akl (University of North Texas, USA); Robin Chataut (Fitchburg State University, USA); Mohammadreza Robaei (University of North Texas, USA)
2:30 PM – 2:45 PM	1570774037	Robotic Devices Types Exoskeletons for Elbow Rehabilitation: An Technological Review	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Claudia Castañeda Vasquez, Alexandra Vasquez Espinoza and Jose Luis Muñoz Zevallos (Universidad de Ingenieria y Tecnologia UTEC, Peru)

All the timings are given in Eastern Standard Time (EST (UTC-5))

SESSION 24: CLOUD AND VIRTUAL NETWORKS , MACHINE LEARNING, NETWORK ARCHITECTURES**SESSION CHAIR: WOLFGANG BEIN (UNIVERSITY OF NEVADA, LAS VEGAS , USA)****SESSION TIME: 1:15 AM – 2:45 PM (DAY 3: 3rd December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570773526	Analysis of Wireless Mesh Security to Minimize Privacy and Security Breach	Krishna D Jadhav and Sripathy Balaji (USA)
1:30 PM – 1:45 PM	1570775184	Traffic Monitoring Related Experimental Study for a Software-Defined Network Based Virtualized Security Functions Platform	Theeraka Gamage, Windhya Rankothge, Narmada Gamage, Dimuthu Jayasinghe, Sasanka Uwanpriya and Haritha Amarasinghe (Sri Lanka Institute of Information Technology, Sri Lanka)
1:45 PM - 2:00 PM	1570774312	Development of Security System for Ready Made Garments (RMG) Industry in Bangladesh	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
2:00 PM – 2:15 PM	1570769915	Data Collection Using Multiple UAVs	Samih El Nakib (Islamic University of Lebanon, Lebanon); Imad Jawhar (Al Maaref University, Lebanon); Nader Mohamed (California University of Pennsylvania & Middleware Technologies Lab., USA)
2:15 PM – 2:30 PM	1570772229	Optimal Small/Macro-Cell Densities in 5G Heterogeneous Networks: Maximizing Small-Cell Throughput Under SIR Constraints	Mobasshir Mahub (Ahsanullah University of Science and Technology, Bangladesh); Bobby Barua (BUET & Ahsanullah University of Science and Technology, Bangladesh); Raed Shubair (New York University (NYU) Abu Dhabi, United Arab Emirates)
2:30 PM – 2:45 PM	1570774045	A Hybrid 5G/PON - Based E-Health Communication Infrastructure	Ahmed Hassebo (Wentworth Institute of Technology, USA)

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DAY 4: 4th December 2021

PARALLEL SESSIONS

SESSION 25: ROUTING, QOS AND NETWORK SECURITY

SESSION CHAIR: GEORGE A. PAPAKOSTAS (INTERNATIONAL HELLENIC UNIVERSITY, GREECE)

SESSION TIME : 9:00 AM – 10:15 AM (DAY 4: 4th December 2021)

PARTICIPATION LINK: WILL BE UPDATED SOON

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9:00 AM – 9:15 AM	1570774020	Jamming Impact on Wireless Resource Allocation in Wireless Virtualization	Amani Alshaikhi and Danda B. Rawat (Howard University, USA)
9:15 AM – 9:30 AM	1570762909	Direct Energy Link Aware Opportunistic Routing in Mobile Hybrid Networks	Shamsad Parvin (State University of New York, USA)
9:30 AM – 9:45 AM	1570767943	Slot Based Round Robin Algorithm for RMCSA Problem in a Spatially-Spectrally FONs	Cameron Woolfries, Martin Van Laethem, Nolan Crooks and Tushya Iyer (British Columbia Institute of Technology, Canada); Michal Aibin (British Columbia Institute of Technology, Canada & Northeastern University, USA)
9:45 AM – 10:00 AM	1570768648	Deep RMCSA for Resource Allocation in Spectrally-Spatially Flexible Optical Networks	Josh Wong and Natalie Doan (British Columbia Institute of Technology, Canada); Michal Aibin (British Columbia Institute of Technology, Canada & Northeastern University, USA)
10:00 AM – 10:15 AM	1570774315	Integration of Blockchain& IoT in Precision Farming: Exploration, Scope and Security Challenges	Ila Kaushik (GGSIPU Delhi, India); Nupur Prakash (GGS Indraprastha University Delhi, India); Anurag Jain (Guru Gobind Singh Indraprastha University, India)

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SESSION 26: TELECOMMUNICATION SYSTEMS**SESSION CHAIR: REDHA RADAYDEH (TEXAS A&M UNIVERSITY-COMMERCE, USA)****SESSION TIME : 9:00 AM – 10:00 AM (DAY 4: 4th December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9:00 AM – 9:15 AM	1570773971	A Modified Branch Line Coupler With Ultra-Wide Harmonics Rejection Using Resonators and Open Ended Stubs	Mohammad (Behdad) Jamshidi (University of West Bohemia, Czech Republic); Sobhan Roshani (Islamic Azad University, Iran); Jakub Talla (University of West Bohemia in Pilsen, Czech Republic); Maryam Sadat Mohammadi (Islamic Azad University, Iran); Saeed Roshani (Kermanshah Branch, Islamic Azad University, Kermanshah, Iran); Zdeněk Peroutka (University of West Bohemia, Czech Republic)
9:15 AM – 9:30 AM	1570772462	An Efficient and Fast-Convergent Detector for 5G and Beyond Massive MIMO Systems	Robin Chataut (Fitchburg State University, USA); Robert Akl and Utpal Kumar Dey (University of North Texas, USA)
9:30 AM – 9:45 AM	1570775086	Connecting Rural Areas: A Solution Approach to Bridging the Coverage Gap	Ida Tognisse (IMSP Bénin, Benin); Jules R. Dégila (University of Abomey-Calavi, Benin); Ahmed Dooguy Kora (Ecole Supérieure Multinationale de Télécommunications, Senegal)
9:45 AM – 10:00 AM	1570775450	4G LTE-Advanced Network Planning and Simulation Study in an Urban Region Utilizing the 700 MHz Frequency	Muhammad Imam Nashiruddin and Pinasthika Fadhila (Telkom University, Indonesia); Muhammad Adam Nugraha (Peruri Research Institute for Authenticity (PRiFA), Indonesia)

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SESSION 27: ELECTRONIC DEVICES AND SYSTEM ON CHIP**SESSION CHAIR: SHRIKANT JADHAV (SAN JOSE STATE UNIVERSITY , USA)****SESSION TIME : 9:00 AM – 10:00 AM (DAY 4: 4th December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
9:00 AM – 9:15 AM	1570775451	Network Planning Analysis of 5G Millimeter-Wave Deployment in Indonesia's Dense Urban Area	Muhammad Imam Nashiruddin and Putri Rahmawati (Telkom University, Indonesia); Muhammad Adam Nugraha (Peruri Research Institute for Authenticity (PRIfA), Indonesia)
9:15 AM – 9:30 AM	1570774802	Generation of Quadrature Noise Samples Having Exact Cauchy Statistics	Gan Luan (Hainan University, China)
9:30 AM – 9:45 AM	1570774341	Design and Implementation of an RFID Based Tactile Communication Device	Tyler Groom, Dakota Barrios and Kiran George (California State University, Fullerton, USA)
9:45 AM – 10:00 AM	1570774285	Energy-Aware Task Migration Through Ant-Colony Optimization for Multiprocessors	Dulana Rupanetti (University of North Dakota, USA); Hassan Salamy (University of Saint Thomas, USA)

10:15 AM – 10:30 AM	BREAK
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SESSION 28: MACHINE LEARNING ,ROBOTICS**SESSION CHAIR: EMAN ABDELFAH (RAMAPO COLLEGE OF NEW JERSEY , USA)****SESSION TIME: 10:30 AM – 11:45 AM (DAY 4: 4th December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30 AM – 10:45 AM	1570775335	An EEG-Based Custom Training Software Solution for Monitoring Audio Training Learning Outcomes	Francis X Liri (California State University, Fullerton, USA); Abel Desoto (California State University of Fullerton, USA); Wendy Catalan and Kiran George (California State University, Fullerton, USA)
10:45 AM - 11:00 AM	1570774435	Kinematic Analysis of an 4 DOF Upper-Limb Exoskeleton	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Jorge Sierra-Huertas (Facultad de Ingenieria, Universidad Tecnológica del Perú, Peru); Dana Terrazas-Rodas (Universidad Tecnológica del Perú, Peru); Alexander Janampa-Espinoza, Jorge Gonzáles and Sofía Huamán-Vizconde (Facultad de Ingenieria, Universidad Tecnológica del Perú, Peru)
11:00 PM – 11:15 AM	1570775330	An IOT Based Nurse Calling System for Real-Time Emergency Alert Using Local Wireless Network	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
11:15 AM – 11:30 AM	1570774406	Design of a Therapeutic Crane With Rehabilitation Monitoring for Patients With Reduced Mobility	Deyby Huamanchahua (Universidad de Ingenieria y Tecnologia UTEC, Peru & Universidad Continental, Peru); Lenin Mendoza, Ruth Bastidas, Valeria Perez and Jaime Huaytalla (Universidad Continental, Peru)
11:30 AM – 11:45 AM	1570761887	No-Interaction School Attendance Scheme Depending on Machine Learning Concepts and RSSI on 2.4GHZ Frequency Band	Ali Abdullah S. AlQahtani (North Carolina A&T State University, USA); Nazim A Choudhury (University of Wisconsin Green Bay, USA)

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SESSION 29: MACHINE LEARNING**SESSION CHAIR: SAIKAT DAS (MIDWESTERN STATE UNIVERSITY , USA)****SESSION TIME: 10:30 AM – 11:45 AM (DAY 4: 4th December 2021)****PARTICIPATION LINK: WILL BE UPDATED SOON**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:30 AM – 10:45 AM	1570774275	Intrusion Detection System for CAN Bus Network Based on Machine Learning Algorithms	Asma Alfardus and Danda B. Rawat (Howard University, USA)
10:45 AM - 11:00 AM	1570774338	Classification of Dry Beans Using Image Features	Sudarshan S Chawathe (University of Maine, USA)
11:00 PM – 11:15 AM	1570773442	Firefly Algorithm Based Optimized PID Controller for Stability Analysis of DC-DC SEPIC Converter	Md. Rafid Kaysar Shagor and Al Jaber Mahmud (IUT, Bangladesh); Mirza Muntasir Nishat and Fahim Faisal (Islamic University of Technology, Bangladesh); Mehedi Hasan Mithun and Md. Ashik Khan (IUT, Bangladesh)
11:15 AM – 11:30 AM	1570772364	EasyChat: A Chat Application for Deaf/Dumb People to Communicate With the General Community	Praveen Avinash Wijenayake, Sakura Gunathilake, Pamod Gursinghe and Haritha Samarathne (Sri Lanka Institute of Information Technology, Sri Lanka)
11:30 AM – 11:45 AM	1570767964	Atmospheric Turbulence Identification in a Multi-User FSOC Using Supervised Machine Learning	Federica Aveta, Samuel Chan and Nabil Asfari (University of Oklahoma, USA); Hazem Refai (Oklahoma University, USA)

VALEDICTORY SESSION**12:15 PM – 1:15 PM****PARTICIPATION LINK: WILL BE UPDATED SOON****All the timings are given in Eastern Standard Time (EST (UTC-5))**