



IEEE CCWC 2022

The 2022 IEEE 12th Annual Computing and Communication Workshop and Conference

**Virtual Conference, Las Vegas, USA
26 - 29 January, 2022**

All the timings are given in Pacific Standard Time (PST (UTC-08))

TECHNICAL SCHEDULE

CONTENTS

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
DAY 1 (26 th January 2022)	INAUGURAL SESSION	8.30 AM - 9.00 AM	6
	KEYNOTE 1: COMPUTATIONAL COMPLEXITY THEORY FOR MAPREDUCE	9:00 AM – 9:45 AM	6
	KEYNOTE 2: CONVEX OPTIMIZATION	9:45 AM - 10:30 AM	6
	-----BREAK-----	10.30 AM – 10.45 AM	6
	SESSION 1: ALGORITHMS AND THEORY	10.45 AM – 12.15 PM	8
	SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	10.45 AM – 12.15 PM	9
	SESSION 3: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	10.45 AM – 12.15 PM	10
	SESSION 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	10.45 AM – 12.15 PM	11
	-----BREAK-----	12.15 PM – 12.30 PM	11
	SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	12.30 PM – 2.00 PM	12
	SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	12.30 PM – 2.00 PM	13
	SESSION 7: BIG DATA AND ANALYTICS	12.30 PM – 2.00 PM	14
SESSION 8: BIG DATA AND ANALYTICS	12.30 PM – 2.00 PM	15	

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
DAY 2 (27 th January 2022)	KEYNOTE 3: UNITED FOR CHANGE: DELIBERATIVE COALITION FORMATION TO CHANGE THE STATUS QUO	8.30 AM - 9.15 AM	16
	KEYNOTE 4: AI FOR SCIENCE ILLUSTRATED BY DEEP LEARNING FOR GEOSPATIAL TIME SERIES	9.15 AM – 10.00 AM	16
	KEYNOTE 5: ON DEVICE MACHINE LEARNING FOR MOBILE AND WEB	10.00 AM - 10.45 AM	16
	-----BREAK-----	10.45 AM – 11.00 AM	16
	SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	11.00 AM – 12.30 PM	18
	SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	11.00 AM – 12.30 PM	19
	SESSION 11: BIG DATA MANAGEMENT AND ANALYTICS	11.00 AM – 12.30 PM	20
	SESSION 12: BIOMEDICAL COMPUTING ; BIOINFORMATICS	11.00 AM – 12.30 PM	21
	-----BREAK-----	12.30 PM – 12.45 PM	21
	SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	12.45 PM – 2.15 PM	22
	SESSION 14: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	12.45 PM – 2.15 PM	23
	SESSION 15: CLOUD COMPUTING AND AI	12.45 PM – 2.15 PM	24
	SESSION 16: COMPUTATIONAL INTELLIGENCE AND CLOUD COMPUTING	12.45 PM – 2.15 PM	25

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
-----	---------------	--------	-------------

DAY 3 (28th January 2022)	KEYNOTE 6: ULTRA-FAST EDGE COMPUTING FOR INTELLIGENT IOT	8.30 AM - 9.15 AM	26
	KEYNOTE 7: ULTRA-LOW-LATENCY MILLIMETER WAVE NETWORKING USING TRUE-TIME-DELAY ARRAY ARCHITECTURE	9.15 AM – 10.00 AM	26
	KEYNOTE 8: DEEP LEARNING METHODS FOR MODELING USER BEHAVIOR IN DISPLAY ADVERTISING	10.00 AM - 10.45 AM	26
	-----BREAK-----	10.45 AM – 11.00 AM	26
	WORKSHOP ON INTERNET OF THINGS (IOT) USING RASPBERRY PI VIRTUAL MACHINES (VMS)	11.00 AM – 2.00 PM	26
	SESSION 17: AI;COMPUTER GRAPHICS, CLOUD	11.00 AM – 12.15 PM	28
	SESSION 18: CRYPTOGRAPHY, ROBOTICS AND MACHINE VISION	11.00 AM – 12.30 PM	29
	SESSION 19: ROBOTICS ; SECURITY	11.00 AM – 12.30 PM	30
	SESSION 20: SECURITY AND PRIVACY	11.00 AM – 12.30 PM	31
	-----BREAK-----	12.30 PM – 12.45 PM	31
	SESSION 21: SECURITY AND PRIVACY	12.45 PM – 2.15 PM	32
	SESSION 22: EMBEDDED SYSTEMS ; GREEN COMPUTING ; WIRELESS COMPUTING	12.45 PM – 2.15 PM	33
	SESSION 23: WIRELESS COMPUTING ; COMMUNICATIONS SOFTWARE	12.45 PM – 2.30 PM	34
SESSION 24: COMMUNICATIONS SOFTWARE ; COGNITIVE RADIO	12.45 PM – 2.15 PM	35	

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY	EVENT DETAILS	TIMING	PAGE NUMBER
DAY 4 (29th January 2022)	KEYNOTE 9: A/B TESTING A.I.	8.30 AM - 9.15 AM	36
	KEYNOTE 10: UBIQUITOUS, SEAMLESS, AND FUTURE PROOFED: HOW WIRELESS CIRCUITS CAN PUSH IOT	9.15 AM – 10.00 AM	36
	KEYNOTE 11: HOW PRIORITIZING PROFITS OVER SAFETY CREATED THE DEADLY BOEING 737 MAX AND ITS ILL-CONCEIVED AUTOMATED SOFTWARE	10.00 AM - 10.45 AM	36
	-----BREAK-----	10.45 AM – 11.00 AM	36
	SESSION 25 SECURITY ; UBIQUITOUS COMPUTING	11.00 AM – 12.15 PM	38
	SESSION 26: HCI, INFORMATION THEORY, SOFTWARE DEFINED NETWORKS	11.00 AM – 12.15 PM	39
	SESSION 27: QUANTUM COMPUTING, SIGNAL AND IMAGE PROCESSING	11.00 AM – 12.15 PM	40
	SESSION 28: SIGNAL AND IMAGE PROCESSING ; SENSOR NETWORKS	11.00 AM – 12.15 PM	41
	-----BREAK-----	12.15 PM – 12.30 PM	41
	SESSION 29: CONTROL SYSTEMS AND APPLICATIONS ; NETWORK SIMULATION	12:30 PM – 1:45 PM	42
	SESSION 30: CONTROL SYSTEM, WIRELESS COMMUNICATION	12:30 PM – 1:45 PM	43
	SESSION 31: WIRELESS COMMUNICATION	12:30 PM – 1:45 PM	44
Valedictory Session	2:15 PM – 3:15 PM	44	

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY 1: 26th January 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.00 AM	INAUGURATION	https://zoom.us/j/6319961197
9.00 AM – 9:45 AM	KEYNOTE ADDRESS BY JEFFREY D. ULLMAN (PROFESSOR, STANFORD UNIVERSITY) TITLE OF TALK: COMPUTATIONAL COMPLEXITY THEORY FOR MAPREDUCE	
9:45 AM - 10.30 AM	KEYNOTE ADDRESS BY STEPHEN BOYD (PROFESSOR, STANFORD UNIVERSITY) TITLE OF TALK: CONVEX OPTIMIZATION	

10.30 AM – 10.45 AM	BREAK
---------------------	--------------

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY 1: 26th January 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
10.45 AM – 12.15 PM	ALGORITHMS AND THEORY	https://zoom.us/j/4109219194
10.45 AM – 12.15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/6626883577
10.45 AM – 12.15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/9587888372
10.45 AM – 12.15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/4897406939
12:15 PM – 12:30 PM	-----BREAK-----	--NA--
12:30 PM – 2:00 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/4109219194
12:30 PM – 2:00 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/6626883577
12:30 PM – 2:00 PM	BIG DATA AND ANALYTICS	https://zoom.us/j/9587888372
12:30 PM – 2:00 PM	BIG DATA AND ANALYTICS	https://zoom.us/j/4897406939

All the timings are given in Pacific Standard Time (PST (UTC-8))

PARALLEL SESSIONS

SESSION 1: ALGORITHMS AND THEORY

SESSION CHAIR: XIAOYU SONG (PORTLAND STATE UNIVERSITY)

SESSION TIME: 10.45 AM – 12.15 PM (DAY 1: 26th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:45 AM – 11:00 AM	1570784506	Robust Supervisory Control for Cyber-Physical Systems Based on Discrete Timed Petri Nets	Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)
11:00 AM – 11:15 AM	1570783716	Email Phishing Detection Based on Naïve Bayes, Random Forests, and SVM Classifications: A Comparative Study	Mustafa Ahmad Al-Fayoumi, Ammar J Odeh and Rana Abdulraheem (Princess Sumaya University for Technology, Jordan); Ismail Keshta (AlMaarefa University, Saudi Arabia); Abobakr Aboshgifa (The Libyan Higher Technical Center for Training and Production, Libya); Tareq AlHajahjeh (Greater Amman Municipality, Jordan)
11:15 AM – 11:30 AM	1570778722	Space Selection and Abstraction in Set Theoretic Estimation	Albert H Carlson (Austin Community College, USA); Shivanjali Khare (University of New Haven, USA); Indira K Dutta and Bhaskar Ghosh (Arkansas Tech University, USA); Michael W Totaro (University of Louisiana at Lafayette & Ray P. Authement College of Sciences, USA)
11:30 AM – 11:45 AM	1570782867	Coherence of Hand Muscles During Activities of Daily Living	Brendan P. Beauchamp, Nabeeh Kandalaft and Samhita Rhodes (Grand Valley State University, USA)
11:45 AM - 12:00 PM	1570783574	Determination of 3D Coordinates of Objects From Image With Deep Learning Model	Md Rasel Hossain, Md Mahbubur Rahman, Mohammad Rezaul Karim Sujon, Md. Jaki Al Amin and Chinmay Bepery (Patuakhali Science and Technology University, Bangladesh)
12:00 PM -12:15 PM	1570782782	Development For an IoT BasedHealth Monitoring System fore-Health	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 2:ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: MD L ALI (RIDER UNIVERSITY, USA)****SESSION TIME: 10.45 AM – 12.15 PM (DAY 1: 26th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:45 AM – 11:00 AM	1570784386	Electricity Consumption Prediction Model for Southern Luzon State University-Main Campus Using Artificial Neural Network	Aubee T. Mahusay (Mapua University, Philippines & Southern Luzon State University, Philippines); Senen Fenomeno (Mapua University, Philippines)
11:00 AM – 11:15 AM	1570783373	Automated Feature Reduction in Machine Learning	David Shilane (Columbia University, USA)
11:15 AM – 11:30 AM	1570783344	Predicting the Outcome of Soccer Matches Using Machine Learning and Statistical Analysis	Haytham Elmiligi (Thompson Rivers University, Canada); Sherif Saad (401 Sunset Ave, Canada & University Of Windsor, Canada)
11:30 AM – 11:45 AM	1570782533	Classification of Stroke Victims Through Supervised Machine Learning Algorithms and Ensemble Learning	Dalton Hensley and Heba Elgazzar (Morehead State University, USA)
11:45 AM - 12:00 PM	1570783705	Privacy and Security in Mobile Health Technologies: Challenges and Concerns	Ammar J Odeh (Princess Sumaya University for Technology, Jordan); Ismail Keshta (AlMaarefa University, Saudi Arabia); Eman Abdelfattah (Ramapo College of New Jersey, USA); Abobakr Aboshgifa (The Libyan Higher Technical Center for Training and Production, Libya)
12:00 PM -12:15 PM	1570782861	Smart Recon: Network Traffic Fingerprinting for IoT Device Identification	Jay Thom, Nathan Thom and Shamik Sengupta (University of Nevada, Reno, USA); Emily Hand (UNR, USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 3: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: ADAM W. SKOREK (UNIVERSITÉ DU QUÉBEC , CANADA)****SESSION TIME: 10.45 AM – 12.15 PM (DAY 1: 26th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:45 AM – 11:00 AM	1570784576	Review of Deep Learning Methods for Automated Sleep Staging	Maryam Heidari (George Mason University, USA); Masoud Malekzade and Parisa Hajibabae (University of Massachusetts at Lowell, USA)
11:00 AM – 11:15 AM	1570784389	Analysis of Reinforcement Learning in Autonomous Vehicles	Tauheed Khan Mohd, Estephanos Jebessa, Kidus Olana, Kidus Getachew and Stuart Isteefanos (Augustana College, USA)
11:15 AM – 11:30 AM	1570784579	Cyberbullying Detection in Social Media Using Machine Learning Algorithms	Maryam Heidari (George Mason University, USA); Parisa Hajibabae and Masoud Malekzade (University of Massachusetts at Lowell, USA)
11:30 AM – 11:45 AM	1570784544	Feed-Forward Intrusion Detection and Classification on A Smart Grid Network	Adedayo Aribisala, Mohammad S Khan and Ghaith Husari (East Tennessee State University, USA)
11:45 AM - 12:00 PM	1570784292	Real-Time Motion Tracking System and Data Analytics for Live Insects Using Three-Wheeled Servosphere System	Nicholas E. Lee (& Hopkins School, USA); Dal Hyung Kim (Kennesaw State University, USA)
12:00 PM -12:15 PM	1570784584	MapReduce Preprocess of Big Graphs for Rapid Connected Components Detection	Maryam Heidari (George Mason University, USA); Reyhaneh Abdolazimi (Syracuse University, USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR : NAIMA A KAABOUC (UNIVERSITY OF NORTH DAKOTA, USA)****SESSION TIME: 10.45 AM – 12.15 PM (DAY 1: 26th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/4897406939>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
10:45 AM – 11:00 AM	1570783386	Challenges Faced by Industries and Their Potential Solutions in Deploying Machine Learning Applications	Raj Shukla and John Carlidge (University of Bristol, United Kingdom (Great Britain))
11:00 AM – 11:15 AM	1570783303	Fine-Grained Chinese Named Entity Recognition Based on MacBERT-Attn-BiLSTM-CRF Model	Jueyang Wang, Shuzhen Li, Edward Agyemang-Duah, Xingyu Feng, Chun Xu, Yuao Ji and Junqiang Liu (Zhejiang Gongshang University, China)
11:15 AM – 11:30 AM	1570783807	Analysis of the Use of Analytics Platform for the Commercial Value of Mud Crab Production Using Non-Parametric Model	Rossian V Perea and Enrique Festijo (Technological Institute of the Philippines, Philippines)
11:30 AM – 11:45 AM	1570780527	Scalable Hindsight Experience Replay Based Q-Learning Framework With Explainability for Big Data Applications in Fog Computing	Bhargavi Krishnamurthy (Postdoc & University of Memphis, USA); Sajjan Shiva (University of Memphis, USA)
11:45 AM - 12:00 PM	1570779163	Interrelating N-Gram Based Protein Sequences Using LSTMs With Parallel Capsule Routing	Sashank Sridhar and Sowmya Sanagavarapu (Anna University, India)
12:00 PM -12:15 PM	1570783330	Early Rumor Detection Based on Data Augmentation and Pre-Training Transformer	Yanjun Hu, Xinyi Ju, Zhousheng Ye, Sulaiman Khan and Chengwu Yuan (Zhejiang Gongshang University, China); Qiran Lai (School of Information and Electronic Engineering, China); Junqiang Liu (Zhejiang Gongshang University, China)

12:15 PM – 12:30 PM	BREAK
----------------------------	--------------

All the timings are given in Pacific Standard Time (PST (UTC-8))

PARALLEL SESSIONS

SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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

SESSION TIME: 12:30 PM – 2:00 PM (DAY 1: 26th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570783495	Betti-Number Based Machine Learning Classifier Frame-Work for Predicting the Hepatic Decompensation in Patients With Primary Sclerosing Cholangitis	Yashbir Singh (Mayo Clinic, Rochester, USA)
12:45 PM – 1:00 PM	1570783987	Handwritten Digit Recognition Using Convolution Neural Networks	Shailesh S Rajput and Yoonsuk Choi (California State University, Fullerton, USA)
1:00 PM -1:15 PM	1570780139	A Comparative Study of Machine Learning Algorithms for Identifying Mental States From EEG Recordings	Chuck Easttom (Georgetown University, USA); Izzat Alsmadi (Texas A&M San Antonio, USA)
1:15 PM – 1:30 PM	1570780750	Skin Cancer Detection Using Convolutional Neural Network	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:30 PM – 1:45 PM	1570781117	Optimize Path Planning for UAV COVID-19 Test Kits Delivery System by Hybrid Reinforcement Learning	Yuan Xing, Charles Carlson and Holly Yuan (University of Wisconsin-Stout, USA)
1:45 PM - 2:00 PM	1570781542	A Study on Application Category Estimation Method Based on Burst Characteristics of Communication	Hiroshi Aoki and Takashi Ozu (Advanced Telecommunications Research Institute International, Japan); Akio Hasegawa (ATR Adaptive Communications Research Lab., Japan); Hiroyuki Yokoyama (ATR, Japan)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR : ADAM W. SKOREK (UNIVERSITÉ DU QUÉBEC , CANADA)****SESSION TIME: 12:30 PM – 2:00 PM (DAY 1: 26th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570781631	Design of a Machine Learning Based Intrusion Detection Framework and Methodology for IoT Networks	Ricardo Alejandro Manzano S. (Cistech Limited, Canada); Nishith Goel (Cistech Ltd., Canada); Marzia Zaman (Cistel Technology Inc., Canada); Rohit Joshi (Cistel Technology, Canada); Kshirasagar Naik (University of Waterloo, Canada)
12:45 PM – 1:00 PM	1570781638	Analysis of Transfer Learning Models for Face Mask Detection	Duygu Cakir and Ozge Yucel Kasap (Bahcesehir University, Turkey)
1:00 PM -1:15 PM	1570782245	Predictive Analysis and Brief Study of Early-Stage Diabetes Using Multiple Classifier Models	Mohammad Sadman Tahsin (Brac University, Bangladesh); Md Jobayer (BRAC University, Bangladesh); Md. Borhan Uddin Antor, Maidul Islam, Fatima Fairuz Raisa and Md. Al Hasan Shaikat (Brac University, Bangladesh)
1:15 PM – 1:30 PM	1570782853	Instance-Based Supervised Machine Learning Models for Detecting GPS Spoofing Attacks on UAS	Ghilas Aissou, Selma Benouadah, Hassan El Alami and Naima A Kaabouch (University of North Dakota, USA)
1:30 PM – 1:45 PM	1570782857	A Survey on Mobile Malware Detection Methods Using Machine Learning	Mina Esmail Zadeh Nojoo Kamar and Armin Esmaeilzadeh (University of Nevada Las Vegas, USA); Yoohwan Kim (University of Nevada, Las Vegas, USA); Kazem Taghva (University of Nevada Las Vegas, USA)
1:45 PM - 2:00 PM	1570784593	Bimodal Data Mining: Integration of Key Data and Semantic Analysis for Text/Audio Datasets	Maryam Heidari, Austin Crow, Victor Corja and Nannan Liu (George Mason University, USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 7: BIG DATA AND ANALYTICS**SESSION CHAIR : HEBA ELGAZZAR (MOREHEAD STATE UNIVERSITY, USA)****SESSION TIME: 12:30 PM – 2:00 PM (DAY 1: 26th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570784568	Forecasting Water Inflow for Bang Lang Dam	Akmal Benhawan, Sureena Matayong and Chidchanok Choksuchat (Prince of Songkla University, Thailand)
12:45 PM – 1:00 PM	1570784137	The Effect of Singular-Vectors Feature Selection (SVFS) Based Hyper Dimensionality Framework in Ligand-Based Virtual Screening	Aya Mostafa (Egypt); Sameh Salem and Amr E. Mohamed (Helwan University, Egypt)
1:00 PM -1:15 PM	1570784581	Predicting Bicycle Package Delivery Demand Using Historical Spatiotemporal Data	Sudarshan S Chawathe (University of Maine, USA)
1:15 PM – 1:30 PM	1570778051	High Availability Distributed Monitoring in Data Center Infrastructures	Elisa Benetti (LepidaScpA, Italy); Matteo Fracassetti (Lepida ScpA, Italy); Gianluca Mazzini (LepidaSpA & UniFe, Italy)
1:30 PM – 1:45 PM	1570783115	Solutions for Closing Usage Gap in Rural Areas in West Africa	Ida Tognisse (IMSP Bénin, Benin); Jules Dégila (University of Abomey-Calavi, Benin); Ahmed Dooguy Kora (Ecole Supérieure Multinationale de Télécommunications, Senegal)
1:45 PM – 2:00 PM	1570779060	The Role of User's Native Language in Mis/Disinformation Detection: The Case of English	Kevin Matthe Caramancion (University at Albany, SUNY, USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 8: BIG DATA AND ANALYTICS**SESSION CHAIR : EMAN ABDELFAH (RAMAPO COLLEGE OF NEW JERSEY, USA)****SESSION TIME: 12:30 PM – 2:00 PM (DAY 1: 26th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/4897406939>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570784174	Detection of Hate Texts Posted by Chadians on Facebook Using Machine Learning Algorithm	Mahamat Saleh Adoum Sanoussi and Chen Xiaohua (Huzhou University, China); George K. Agordzo (Anhui University of Science and Technology, China)
12:45 PM – 1:00 PM	1570784590	Efficient Large Scale NLP Feature Engineering With Apache Spark	Maryam Heidari (George Mason University, USA); Armin Esmailzadeh (University of Nevada Las Vegas, USA)
1:00 PM -1:15 PM	1570784574	Privacy-Preserving Federated Learning Model for Healthcare Data	Tanzir Ul Islam (University of Manitoba, Canada); Reza Ghasemi (Bu-Ali Sina University, Iran); Noman Mohammed (University of Manitoba, Canada)
1:15 PM – 1:30 PM	1570784099	Employability Prediction of Engineering Graduates Using Ensemble Classification Modeling	Renato R. Maaliw III and Karen Anne C. Quing (Southern Luzon State University, Philippines); Ace C. Lagman (FEU Institute of Technology, Philippines); Melvin A. Ballera (Technological Institute of the Philippines, Philippines)
1:30 PM – 1:45 PM	1570778706	Development A Web Application for Lawyer and Client Virtual Communication	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Priyanka Dixit (UIT RGPV Bhopal, India)
1:45 PM – 2:00 PM	1570780410	Factors Affecting Vietnamese People's Intention to Buy Health Care Products Online During Covid-19	Nguyen Thi Phuong Giang (Industrial University of HoChiMinh City, Vietnam & Ho Chi Minh City, Vietnam)

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY 2: 27th January 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.15 AM	KEYNOTE ADDRESS BY EDITH ELKIND (PROFESSOR, OXFORD UNIVERSITY) TITLE OF TALK: UNITED FOR CHANGE: DELIBERATIVE COALITION FORMATION TO CHANGE THE STATUS QUO	https://zoom.us/j/6319961197
9.15 AM – 10.00 AM	KEYNOTE ADDRESS BY GEOFFREY FOX (PROFESSOR, UNIVERSITY OF VIRGINIA) TITLE OF TALK: AI FOR SCIENCE ILLUSTRATED BY DEEP LEARNING FOR GEOSPATIAL TIME SERIES	
10.00 AM - 10.45 AM	KEYNOTE ADDRESS BY ADEL AHMADYAN (SENIOR RESEARCH ENGINEER, GOOGLE CORE ML TEAM) TITLE OF TALK: ON DEVICE MACHINE LEARNING FOR MOBILE AND WEB	

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

All the timings are given in Pacific Standard Time (PST (UTC-8))

Day 2: 27th January 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
11:00 AM – 12.30 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/4109219194
11:00 AM – 12.30 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/6626883577
11:00 AM – 12.30 PM	BIG DATA MANAGEMNT AND ANALYTICS	https://zoom.us/j/9587888372
11:00 AM – 12.30 PM	BIOMEDICAL COMPUTING ; BIOINFORMATICS	https://zoom.us/j/4897406939
12:30 PM – 12:45 PM	-----BREAK-----	--NA--
12:45 PM – 2:15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/4109219194
12:45 PM – 2:15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	https://zoom.us/j/6626883577
12:45 PM – 2:15 PM	CLOUD COMPUTING AND AI	https://zoom.us/j/9587888372
12:45 PM – 2:15 PM	COMPUTATIONAL INTELLIGENCE AND CLOUD COMPUTING	https://zoom.us/j/4897406939

All the timings are given in Pacific Standard Time (PST (UTC-8))

PARALLEL SESSIONS

SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR : HAYSSAM EL-RAZOUK (CALIFORNIA STATE UNIVERSITY, FRESNO)

SESSION TIME: 11:00 AM – 12.30 PM (DAY 2: 27th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570782927	A Comparative Analysis of the Ensemble Models for Detecting GPS Spoofing Attacks on UAVs	Aydan Gasimova, Tala Talaei Khoei and Naima A Kaabouch (University of North Dakota, USA)
11:15 AM – 11:30 AM	1570783019	Ransomware Classification and Detection With Machine Learning Algorithms	Hossain Shahriar, Mohammad Masum, Md Jobair Hossain Faruk, Kai Qian and Dan Chia-Tien Lo (Kennesaw State University, USA); Muhaiminul Adnan (United International University, Bangladesh)
11:30 AM – 11:45 AM	1570783048	ECG Data Analysis With IoT and Machine Learning	Abhigya Pote Shrestha and Chen-Hsiang Yu (Wentworth Institute of Technology, USA)
11:45 AM - 12:00 PM	1570783456	Analysis of Covid-19 Waves in Morocco Using Machine Learning	Patrick Loola Bokonda (Mohammed V University in Rabat - Ecole Mohammadia d'Ingénieurs (EMI) & Siweb Laboratory, Morocco); Abdelhamid El krem, Olivier Jan Sonkeng and Dior Masrané Reoukadji (Research Team, Kavaa Global Services, Morocco)
12:00 PM -12:15 PM	1570783525	A Light Boosting-Based ML Model for Detecting Deceptive Jamming Attacks on UAVs	Hadjar Ould Slimane, Selma Benouadah, Tala Talaei Khoei and Naima A Kaabouch (University of North Dakota, USA)
12:15 PM - 12:30 PM	1570783568	Autonomous Valet Parking With Asynchronous Advantage Actor-Critic Proximal Policy Optimization	Teck Chai Tiong (Curtin University Sarawak, Malaysia); Ismail Saad (Universiti Malaysia Sabah, Malaysia); Kenneth Tze Kin Teo (Universiti Malaysia Sabah & Modelling, Simulation & Computing Laboratory, Malaysia); Herwansyah bin Lago (University Malaysia Sabah, Malaysia)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR :****SESSION TIME: 11:00 AM – 12.30 PM (DAY 2: 27th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570783636	Real-Time Face Mask Detection for COVID-19 Prevention	Mohammad Rezaul Karim Sujon, Md. Jaki Al Amin, Md Mahbubur Rahman, Md Rasel Hossain and Chinmay Bepery (Patuakhali Science and Technology University, Bangladesh)
11:15 AM – 11:30 AM	1570783699	Bangla Food Review Sentimental Analysis Using Machine Learning	Mohd. Istiaq Hossain Junaid, Faisal Hossain, Udyan Saha Upal and Anjana Tameem (North South University, Bangladesh); Abul Kashim (Electrical and Computer Engineering North South University Bangladesh, Bangladesh)
11:30 AM – 11:45 AM	1570783701	Efficient Email Phishing Detection Using Machine Learning	Rana Abdulraheem, Ammar J Odeh and Mustafa Ahmad Al-Fayoumi (Princess Sumaya University for Technology, Jordan)
11:45 AM - 12:00 PM	1570783777	Alternative Methodology and Framework for Assessing Differential Privacy Constraints and Consequences From a GDPR Perspective	Dmitry Prokhorenkov (Technical University of Munich, Germany)
12:00 PM -12:15 PM	1570783891	Convolutional Neural Network Implementations Using Vitis AI	Minoru Watanabe (Okayama University)
12:15 PM - 12:30 PM	1570784053	Lightweight Computer Vision System for Automated Weed Mapping	Saad Abouzahir (University Hassan II, Morocco); Mohamed Sadik (ENSEM / UH2C, Morocco); Essaid Sabir (Hassan II University of Casablanca, Morocco)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 11: BIG DATA MANAGEMNT AND ANALYTICS**SESSION CHAIR : MICHAEL W TOTARO (UNIVERSITY OF LOUISIANA AT LAFAYETTE & RAY P. AUTHEMENT COLLEGE OF SCIENCES, USA)****SESSION TIME: 11:00 AM – 12.30 PM (DAY 2: 27th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570783390	U.S. Wildfire Risks and Prevention	Eman Abdelfattah and Tenzin Sherpa (Ramapo College of New Jersey, USA)
11:15 AM – 11:30 AM	1570784223	Contactless Payments Through E-Wallets on Mobile Devices in the Context of Covid 19 at VietNam	Nguyen Thi Phuong Giang (Industrial University of HoChiMinh City, Vietnam & Ho Chi Minh City, Vietnam); Nguyen Phuong Duy (Industry University of Ho Chi Minh City, Vietnam)
11:30 AM – 11:45 AM	1570784510	Modeling the Civil Servant Discipline in Indonesia: PLS-SEM Approach	Nur Soelaiman (Universiti Teknikal Melaka Malaysia, Malaysia); Sharifah Sakinah Syed Ahmad and Othman Mohd (Universiti Teknikal Malaysia Melaka, Malaysia); Hexa Hidayah (Universitas Jenderal Soedirman, Indonesia); Rosyid R Al Hakim (Jakarta Global University, Indonesia)
11:45 AM - 12:00 PM	1570784531	Sentiment Analysis High_School' Feedback for Predicting Career Possibilities	Nguyen Thi Phuong Giang (Industrial University of HoChiMinh City, Vietnam & Ho Chi Minh City, Vietnam)
12:00 PM -12:15 PM	1570784543	A Machine Learning and Explainable AI Approach for Predicting Secondary School Student Performance	Khan Md. Hasib (Ahsanullah University of Science and Technology & BRAC University, Bangladesh); Farhana Rahman, Rashik Hasnat and Md. Golam Rabiul Alam (BRAC University, Bangladesh)
12:15 PM - 12:30 PM	1570784582	Autoregressive Modeling of Utility Customer Outages With Deep Neural Networks	Kingsley Udeh, David W. Wanik, Diego Cerrai, Derek C Aguiar and Emmanouil Anagnostou (University of Connecticut, USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 12: BIOMEDICAL COMPUTING ; BIOINFORMATICS**SESSION CHAIR: FANG LIU (GEORGIA INSTITUTE OF TECHNOLOGY, USA)****SESSION TIME: 11:00 AM – 12:30 PM (DAY 2: 27th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/4897406939>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570784350	An FPGA-Based Piecewise Linear Spiking Neuron for Simulating Bursting Behavior	Xiaomei Pi and Xianghong Lin (Northwest Normal University, China)
11:15 AM – 11:30 AM	1570784475	On Label Languages of Homogeneous Variant of SNPSSP (HSNPSSP)	Prithwineel Paul and Soumadip Ghosh (IEM KOLKATA, India)
11:30 AM – 11:45 AM	1570784110	Interpretable Learning Model for Lower Dimensional Feature Space: A Case Study With Brown Spot Detection in Rice Leaf	Md Amit Khan (Silicon Orchard Ltd, Bangladesh); Nafiz Sadman (Silicon Orchard R&D lab, USA); Kishor Datta Gupta (University of Memphis, USA); Jesan Ovi (East West University, Bangladesh)
11:45 AM - 12:00 PM	1570784118	Evaluation of the Deep Learning-Based m-Health Application Using Mobile App Development and Assessment Guide	Christopher G. Estonilo (Technological Institute of the Philippines-Manila & Cavite State University-CCAT, Philippines); Enrique Festijo (Technological Institute of the Philippines, Philippines)
12:00 PM -12:15 PM	1570784470	Using EEG and fNIRS Signals as Polygraph	Mohammad A Khalil, Maria Ramirez and Kiran George (California State University, Fullerton, USA)
12:15 PM - 12:30 PM	1570784553	Performance Analysis of Convolutional Neural Network Architectures for the Identification of COVID-19 From Chest X-Ray Images	Tanvir Anjum and Tanzil Ebad Chowdhury (Leading University, Bangladesh); Shadman Sakib (Leading University, Bangladesh & International University of Business Agriculture and Technology, Bangladesh); Shafkat Kibria (Leading University, Bangladesh)

All the timings are given in Pacific Standard Time (PST (UTC-8))

12:30 PM – 12:45 PM**BREAK**

PARALLEL SESSIONS

SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR : NAIMA A KAABOUC (UNIVERSITY OF NORTH DAKOTA, USA)

SESSION TIME: 12:45 PM – 2:15 PM (DAY 2: 27th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570784108	MLOps - Definitions, Tools and Challenges	Georgios Symeonidis (Athena Research and Innovation Centre, Greece); Evangelos Nerantzis, Apostolos Kazakis and George A Papakostas (International Hellenic University, Greece)
1: 00 PM – 1:15 PM	1570784124	Analysis and Exploratory of Lecture Preparation Process to Improve the Conformance Using Process Mining	Ria Rahmawati, Rachmadita Andreswari and Rokhman Fauzi (Telkom University, Indonesia)
1:15 PM – 1:30 PM	1570784231	Analysing Tweets on COVID-19 Vaccine: A Text Mining Approach	Swetha Gottipati (S P Jain School of Global Management, Singapore); Debashis Guha (SP Jain School of Global, India)
1:30 PM – 1:45 PM	1570784266	Detection of Northern Corn Leaf Blight Disease in Real Environment Using Optimized YOLOv3	Brian Song (Roslyn High School, USA); Jeongkyu Lee (Northeastern University, USA)
1:45 PM - 2:00 PM	1570784315	A Lightweight Multilayer Machine Learning Detection System for Cyber-Attacks in WSN	Shereen Ismail (University of North Dakota, USA); Diana Dawoud (University of Dubai, United Arab Emirates); Hassan Reza (University of North Dakota, USA)
2:00 PM–2:15PM	1570784191	Android GUI Test Generation With SARSA	Md Khorrom Khan and Renee Bryce (University of North Texas ,USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 14: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR : CASIMER DECUSATIS (MARIST COLLEGE, USA)****SESSION TIME: 12:45 PM – 2:15 PM (DAY 2: 27th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570784502	Performance Analysis of Deep Learning Architectures in Classifying Calamansi (<i>Citrofortunella microcarpa</i>)	Epie F. Custodio (Technological Institute of the Philippines); Alexander Hernandez (Technological Institute of the Philippines - Manila, Philippines)
1: 00 PM – 1:15 PM	1570784407	A Novel Skeleton-Based Model With Spine for 3D Human Pose Estimation	Zhaoxu Li, Sheng Liu, Bai Jue, Chenglei Peng, Yang Li and Sidan Du (Nanjing University, China)
1:15 PM – 1:30 PM	1570784548	Optimize Mobile Wireless Power Transfer by Finite State Machine Reinforcement Learning	Yuan Xing (University of Wisconsin-Stout, USA); Riley Young, Giaolong Nguyen and Maxwell Lefebvre (University of Wisconsin Stout, USA)
1:30 PM – 1:45 PM	1570784573	Improving the Machine Learning Prediction Accuracy With Clustering Discretization	Chunlan Gao and Yanqing Zhang (Georgia State University, USA); Dan Chia-Tien Lo and Yong Shi (Kennesaw State University, USA)
1:45 PM - 2:00 PM	1570784554	Benchmarking Conventional Vision Models on Neuromorphic Fall Detection and Action Recognition Dataset	Karthik Sivarama Krishnan (Rochester Institute of Technology, USA & Panimalar Engineering College, India); Koushik Sivarama Krishnan (Panimalar Engineering College, India)
2:00 PM – 2:15 PM	1570784179	Software Development Models for IoT	Shereen Ismail (University of North Dakota, USA); Diana Dawoud (University of Dubai, United Arab Emirates)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 15: CLOUD COMPUTING AND AI**SESSION CHAIR : TAUHEED KHAN MOHD (AUGUSTANA COLLEGE, USA)****SESSION TIME: 12:45 PM – 2:15 PM (DAY 2: 27th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570782774	Measuring Consistency Metric for Web Applications	Levent Dane and Deniz Gurkan (University of Houston, USA)
1: 00 PM – 1:15 PM	1570782505	My Diary: A Web Application to Accumulate Necessary Files	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:15 PM – 1:30 PM	1570784591	Monitoring Audio Training Learning Outcomes With EEG Data	Francis X Liri (California State University, Fullerton, USA); Abel Desoto (California State University of Fullerton, USA); Wendy Catalan, Kiran George and Kenneth J Faller II (California State University, Fullerton, USA); Julia R Drouin (California State University Fullerton, USA)
1:30 PM – 1:45 PM	1570782623	Optimizing Constraint Driven Container Orchestration Policies in a Cloud Environment	Abhishek Das, Tarun Gupta and Sanketh Reddy (PES University, India); Phalachandra Hallymysore (Pes University, India)
1:45 PM - 2:00 PM	1570784551	Development of Smart Telemedicine System	Mohammad Monirujjaman Khan (North South University & Queen Mary University of, Bangladesh)
2:00 PM – 2:15 PM	1570781329	An IoT Based Cloud Solution for Intelligent Integrated Rice Fish Farming Using Wireless Sensor Networks and Sensing Meteorological Parameters	Md Ashif Uddin (Khulna University, Bangladesh); Uzzwal Kumar Dey (Khulna University of Engineering & Technology, Bangladesh); Shamama Ahmed Tonima and Toriql Islam Tusher (Khulna University, Bangladesh)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 16: COMPUTATIONAL INTELLIGENCE AND CLOUD COMPUTING**SESSION CHAIR : IZZAT ALSMADI (TEXAS A&M SAN ANTONIO, USA)****SESSION TIME: 12:45 PM – 2:15 PM (DAY 2: 27th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/4897406939>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570784243	Development of Scoliotic Spine Severity Detection Using Deep Learning Algorithms	Nahid Ameer Makhdoomi, Teddy Surya Gunawan, Nur Hanani Idris, Othman Omran Khalifa and Rajandra Kumar Karupiah (International Islamic University Malaysia, Malaysia); Arif Bramantoro (Universiti Teknologi Brunei, Brunei Darussalam); Farah Abdul Rahman and Zamzuri Zakaria (International Islamic University Malaysia, Malaysia)
1:30 PM – 1:45 PM	1570784521	Lessons Learned From the Initial Development of a Brain Controlled Assistive Device	Masudul Imtiaz (Clarkson University, USA)
1:45 PM - 2:00 PM	1570784272	Secure Access Service Edge: A Zero Trust Based Framework for Accessing Data Securely	Silafu Yiliyaer and Yoohwan Kim (University of Nevada, Las Vegas, USA)
2:00 PM – 2:15 PM	1570781484	Design, Implementation and Performance of an Edge Computing Prototype Using Raspberry Pis	Tyler Gizinski and Xiang Cao (Grand Valley State University, USA)
2:15 PM – 2:30 PM	1570781487	Goals and Solutions of Data Allocation in Data Center	Xiang Cao (Grand Valley State University, USA)
2:30 PM – 2:45 PM	1570782780	Cloud-Based Produce Market for Independent Farmers, Grocers, and Retailers	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY 3: 28th January 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.15 AM	KEYNOTE ADDRESS BY KEN BIRMAN (PROFESSOR, CORNELL UNIVERSITY) TITLE OF TALK: CASCADE: ULTRA-FAST EDGE COMPUTING FOR INTELLIGENT IOT	https://zoom.us/j/6319961197
9.15 AM – 10.00 AM	KEYNOTE ADDRESS BY DANIJELA CABRIC (PROFESSOR, UNIVERSITY OF CALIFORNIA, LOS ANGELES) TITLE OF TALK: ULTRA-LOW-LATENCY MILLIMETER WAVE NETWORKING USING TRUE-TIME-DELAY ARRAY ARCHITECTURE	
10.00 AM - 10.45 AM	KEYNOTE ADDRESS BY DJORDJE GLIGORIJEVIC (SENIOR APPLIED RESEARCHER, EBAY) TITLE OF TALK: DEEP LEARNING METHODS FOR MODELING USER BEHAVIOR IN DISPLAY ADVERTISING	

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

WORKSHOP

Workshop on Internet of Things (IoT) using Raspberry Pi virtual machines (VMs) By Dr. Phillip Bradford (University of Connecticut, Stamford, USA)	11.00 AM – 2.00 PM
PARTICIPATION LINK: https://zoom.us/j/6319961197	

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY 3: 28th January 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
11:00 AM – 12.15 PM	AI;COMPUTER GRAPHICS, CLOUD	https://zoom.us/j/4109219194
11:00 AM – 12.30 PM	CRYPTOGRAPHY, ROBOTICS AND MACHINE VISION	https://zoom.us/j/6626883577
11:00 AM – 12.30 PM	ROBOTICS ; SECURITY	https://zoom.us/j/9587888372
11:00 AM – 12.30 PM	SECURITY	https://zoom.us/j/4897406939
11:00 AM – 2:00 PM	WORKSHOP SESSION	https://zoom.us/j/6319961197
12:30 PM – 12:45 PM	-----BREAK-----	--NA--
12:45 PM – 2:15 PM	SECURITY AND PRIVACY	https://zoom.us/j/4109219194
12:45 PM – 2:15 PM	EMBEDDED SYSTEMS ; GREEN COMPUTING ; WIRELESS COMPUTING	https://zoom.us/j/6626883577
12:45 PM – 2:30 PM	WIRELESS COMPUTING ; COMMUNICATIONS SOFTWARE	https://zoom.us/j/9587888372
12:45 PM – 2:15 PM	COMMUNICATIONS SOFTWARE ; COGNITIVE RADIO	https://zoom.us/j/4897406939

All the timings are given in Pacific Standard Time (PST (UTC-8))

PARALLEL SESSIONS

SESSION 17: AI;COMPUTER GRAPHICS, CLOUD

SESSION CHAIR: HAYSSAM EL-RAZOUK (CALIFORNIA STATE UNIVERSITY, FRESNO)

SESSION TIME: 11:00 AM – 12:15 PM (DAY 3: 28th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570784586	FPGA Implementation of Radio Frequency Neural Networks	Amit Bhatia (BAE Systems, USA); Joshua Robinson (BAE Systems, Inc., USA); Joseph Carmack and Scott Kuzdeba (BAE Systems, USA)
11:15 AM – 11:30 AM	1570784575	Optical Flow-Based Place Recognition: Bridging the Gap Between Simulation and Real-World Experiments	Sotirios Diamantas (Tarleton State University, USA); Prithviraj Dasgupta (US Naval Research Laboratory, USA)
11:30 AM – 11:45 AM	1570784577	An Intelligent System for Safely Managing Traffic Flow of Connected Autonomous Vehicles at Multilane Intersections in Smart Cities	Amin Sahba and Ramin Sahba (The University of Texas at San Antonio, USA)
11:45 AM - 12:00 PM	1570784456	Approaches for Migrating Non Cloud-Native Applications to the Cloud	Abhigna L Shastry, Devika S Nair, Prathima B and Ramya C P (PES University, India); Phalachandra Hallymysore (Pes University, India)
12:00 PM -12:15 PM	1570782751	Modeling a Simulated Forest to Get Burning Times of Tree Species Using a Digital Twin	Guillermo Sanchez-Guzman (Escuela Superior Politécnica del Litoral, Ecuador); Washington Velasquez (Escuela Superior Politecnica del Litoral, Ecuador);ManuelAlvarez-Alvarado (Escuela Superior Politécnica del Litoral, Ecuador)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 18: CRYPTOGRAPHY, ROBOTICS AND MACHINE VISION**SESSION CHAIR :RANIA HUSSEIN (UNIVERSITY OF WASHINGTON , USA)****SESSION TIME: 11:00 AM – 12:30 PM (DAY 3: 28th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570782390	The Design of High Efficiency Voltage Mode Integrated Converter for Glucose Monitoring Systems	Kavyashree Puttananjegowda, Majdi Ababneh and Sylvia Thomas (University of South Florida, USA)
11:15 AM – 11:30 AM	1570780635	NTRU & LASH Implemented for Quantum Resistant Blockchain	Chuck Easttom (Georgetown University, USA)
11:30 AM – 11:45 AM	1570782920	Reversible Audio Data Hiding Using Samples Greatest Common Factor and Audio Interpolation	Fariz Ardin Adhiyaksa, Mohammad Muzayyin Amrulloh, Tanzilal Mustaqim and Hilya Tsaniya (Institut Teknologi Sepuluh Nopember, Indonesia); Hudan Studiawan (Murdoch University, Australia & Institut Teknologi Sepuluh Nopember, Indonesia); Ary Mazharuddin Shiddiqi (Sepuluh Nopember Institute of Technology, Indonesia)
11:45 AM - 12:00 PM	1570784291	Security Analysis of a Key Exchange Protocol Under Dolev-Yao Threat Model Using Tamarin Prover	Bhargav Ram Singam and Odelu Vanga (Indian Institute of Information Technology Sri City, India)
12:00 PM -12:15 PM	1570782508	Smart Helmet With Rear View and Accident Detection System for Increased Safety	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
12:15 PM - 12:30 PM	1570783828	Modelling and Analysis of a Vertical Wall Robot for Ceiling Inspection	Rizuwana Parween, Yehwen Tan and Rajesh Elara Mohan (Singapore University of Technology and Design, Singapore)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 19: ROBOTICS ; SECURITY**SESSION CHAIR : SAJJAN SHIVA (UNIVERSITY OF MEMPHIS, USA)****SESSION TIME: 11:00 AM – 12:30 PM (DAY 3: 28th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570783882	Estimation of Sloshing Motion in a Wheel-Based Drain Inspection Robot	Rizuwana Parween, Povendhan Arthanaripalayam Palanisamy and Yehwen Tan (Singapore University of Technology and Design, Singapore); Dylan Ng Terntzer (Lionsbot International Pte. Ltd., Singapore); Rajesh Elara Mohan (Singapore University of Technology and Design, Singapore)
11:15 AM – 11:30 AM	1570782765	A Comparative Analysis of Buffer Overflow Vulnerabilities in High-End IoT Devices	Blas Molina Calatayud (Ireland); Liam Meany (Dublin City University & Glasnevin Dublin 9, Ireland)
11:30 AM – 11:45 AM	1570782557	Vulnerability Analysis and Prevention in a Smart City	Mackenzie R. Zappe (University of Nevada, Reno, USA); Ben Lupton (DePauw University, USA); Jay Thom, Shamik Sengupta and David Feil-Seifer (University of Nevada, Reno, USA)
11:45 AM - 12:00 PM	1570784014	The Impact of Purchasing Cyber Insurance on the Enhancement of Operational Cyber Risk Mitigation of U.S. Banks - A Case Study	Thomas Watson and Kutub Thakur (New Jersey City University, USA); Md L Ali (Rider University, USA)
12:00 PM -12:15 PM	1570783694	Image Encryption Through Ro'Ssler System, PRNG S-Box and Recama N's Sequence	Mohamed khaled Mohamed F ElBeltagy (Cairo & Dell, Egypt); Wassim Alexan and Abdelrahman Elkhamry (German University in Cairo, Egypt); Mohamed Moustafa (The German International University, Egypt); Hisham Hussein (Universities of Canada, Egypt)
12:15 PM - 12:30 PM	1570780413	A Panorama of the Implementation of the General Law for the Protection of Personal Data (LGPD) in Brazil: An Exploratory Survey	Lamara Ferreira (CEETEPS, Brazil); Marcelo Okano (CEETEPS & Faculdade de Tecnologia da UNICAMP, Brazil); Fernanda Aguiar (CEETEPS, Brazil); Henry de Castro Lobo dos Santos (Universidade Estadual de Campinas & Faculdade de Tecnologia, Brazil); Edson Ursini (University of Campinas, Brazil)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 20: SECURITY AND PRIVACY**SESSION CHAIR :****SESSION TIME: 11:00 AM – 12:30 PM (DAY 3: 28th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/4897406939>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570782238	Best Practices to Secure API Implementations in Core Banking System (CBS) in Banks	Mahbub Ul Alam (Flora Telecom Ltd., Bangladesh); Muhammad Abul Kalam Azad (Eastern Bank Ltd, Bangladesh); Md. Showkat Ali (Banglalink Digital Communication Ltd, Bangladesh)
11:15 AM – 11:30 AM	1570783974	Blockchain Based Secured Multipurpose Identity (SMID) Management System for Smart Cities	Abrarul Hassan Rahat, Humayra Tasnin, Mamunur Rashid Rumon, Tassnim Jaman Joti and Tania Akter (BRAC University, Bangladesh); Arif Shakil and Muhammad Iqbal Hossain (Brac University, Bangladesh)
11:30 AM – 11:45 AM	1570782858	Detecting and Classifying Self-Deleting Windows Malware Using Prefetch Files	Adam B Duby (United States Military Academy, USA); Teryl Taylor (IBM Research, USA); Gedare Bloom (University of Colorado Colorado Springs, USA); Yanyan Zhuang (University of Colorado, Colorado Springs, USA)
11:45 AM – 12:00 PM	1570783515	Evolution of Firewalls: Toward Securer Network Using Next Generation Firewall	Junyan Liang (University of Nevada, Las Vegas (UNLV), USA); Yoohwan Kim (University of Nevada, Las Vegas, USA)
12:00 PM -12:15 PM	1570782244	A Framework for Open Source Intelligence Penetration Testing of Virtual Health Care Systems	Casimer DeCusatis, Patrick Peko, Jordan Irving, Maxwell Teache, Christopher Laibach and Jason Hodge (Marist College, USA)
12:15 PM - 12:30 PM	1570782239	A Cybersecurity Awareness Escape Room Using Gamification Design Principles	Casimer DeCusatis (Marist College, USA); Brian Gormanly (Marist College & Valley Technologies Group, USA); Erin Alvarico, Omar Dirahoui, Joseph McDonough, Brian Sprague, Michelle Maloney, Brian Mah and Dominick Avitabile (Marist College, USA)

12:30 PM – 12:45 PM**BREAK****All the timings are given in Pacific Standard Time (PST (UTC-8))**

PARALLEL SESSIONS

SESSION 21: SECURITY AND PRIVACY

SESSION CHAIR : AMMAR J ODEH (PRINCESS SUMAYA UNIVERSITY FOR TECHNOLOGY, JORDAN)

SESSION TIME: 12:45 PM – 2:15 PM (DAY 3: 28th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570784058	Physical Layer Security Improvement of Dual-Hop Dual-Relay Network Using Signal Space Diversity	M. Ajmal Khan (Bowling Green State University, USA); Firas Hassan and Rhys Davies (Ohio Northern University, USA)
1:00 PM – 1:15 PM	1570784131	Evil-Twin Browsers: Using Open-Source Code to Clone Browsers for Malicious Purposes	Mathew David H Salcedo (University of Nevada, Las Vegas, USA); Mehdi Abid (University of Nevada Las Vegas, USA); Yoohwan Kim and Ju-Yeon Jo (University of Nevada, Las Vegas, USA)
1:15 PM – 1:30 PM	1570784207	DER Communication Networks and Their Security Issues	Ki O Chan, Yoohwan Kim and Ju-Yeon Jo (University of Nevada, Las Vegas, USA)
1:30 PM – 1:45 PM	1570784419	An Overview on Detection and Prevention of Application Layer DDoS Attacks	Samuel Black (University of Nevada Las Vegas, USA); Yoohwan Kim (University of Nevada, Las Vegas, USA)
1:45 PM - 2:00 PM	1570784488	States of Attack Under Incomplete Information	Aliyu Tanko Ali and Damas Gruska (Comenius University in Bratislava, Slovakia)
2:00 PM – 2:15 PM	1570784511	Privacy Attacks Based on Correlation of Dataset Identifiers: Assessing the Risk	Oleksii Podoliaka (National Aerospace University, NAU KhAI, USA); Virginia Mushkatblat (Hush-Hush, USA); Adam Kaplan (California State University Northridge, USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 22: EMBEDDED SYSTEMS ; GREEN COMPUTING ; WIRELESS COMPUTING**SESSION CHAIR : MUATH OBAIDAT (CITY UNIVERSITY OF NEW YORK ,USA)****SESSION TIME: 12:45 PM – 2:15 PM (DAY 3: 28th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570784287	Improved Control Strategy for 4WD Electric Vehicle Using Direct Torque Control Technique With Space Vector Modulation	Zuhair Alqarni (ALBAHA University, Saudi Arabia)
1:00 PM – 1:15 PM	1570784504	A Brief Survey of Fault Tolerant Techniques for Field Programmable Gate Arrays	Raihana Yarzada and Divya Singh (University of California at Davis, USA); Hussain Al-Asaad (University of California, Davis, USA)
1:15 PM – 1:30 PM	1570782372	Technoeconomic Analysis for Microgrid Renewable Energy With Battery and Hydrogen Storage	Teck Chai Tiong (Curtin University Sarawak, Malaysia); Kiing Ing Wong (Curtin University of Technology, Malaysia); Wei Kitt Wong (Curtin University, Malaysia); Ing Ming Chew (Curtin University Malaysia, Malaysia)
1:30 PM – 1:45 PM	1570784297	Throughput Improvement in Vehicular Communication by Using Low Density Parity Check (LDPC) Code	Utpal Kumar Dey and Robert Akl (University of North Texas, USA); Robin Chataut (Fitchburg State University, USA)
1:45 PM - 2:00 PM	1570783430	Achieving High Gain Performance for 5g Millimeter-Wave Transmission With Large Communication	Omar Almesbahi and Abdullah Alqadhi (Hefei University of Technology, China); Mahmood Almesbahi (University of Science and Technology of China, China)
2:00 PM – 2:15 PM	1570784221	PARADA: Parking Space Rental and Leasing Application System	Irene L. Balmes (TIP Manila & None, Philippines); Riva Mae Alejandro, Jose Miguel Gamon and Angelu Merry Ilagan (TIP Manila, Philippines)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 23: WIRELESS COMPUTING ; COMMUNICATIONS SOFTWARE**SESSION CHAIR : EDSON URSINI (UNIVERSITY OF CAMPINAS, BRAZIL)****SESSION TIME: 12:45 PM – 2:30 PM (DAY 3: 28th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570784172	Design of 2*1 Patch Array Antenna for 5G Communications Systems Using mm-Wave Frequency Band	Md. Abdul Kader Jilani (Daffodil International University, Bangladesh); Md. Arman Hossain (Daffodil International University, Bangladesh); Farzana Yeasmin Lamia, Md. Afzalur Rahman, Adiba Haque Sharker and Md Rezwatul Ahsan (Daffodil International University, Bangladesh)
1:00 PM – 1:15 PM	1570784402	Load Balancing Call Admission Control Algorithm (CAC) Based on Soft-Handover in 5G Networks	Aymen Zreikat (American University of the Middle East, Kuwait)
1:15 PM – 1:30 PM	1570780474	Design and Implementation of Mobile Applications for Military Personnel Based on SIP (Session Initiation Protocol)	Sandhya Hizrian Sabila, I Wayan Mustika and Selo Sulisty (Universitas Gadjah Mada, Indonesia)
1:30 PM – 1:45 PM	1570783283	Assessing 3.5 GHz Frequency for 5G New Radio (NR) Implementation in Indonesia's Urban Area	Putri Rahmawati, Muhammad Imam Nashiruddin and Ahmad Tri Hanuranto (Telkom University, Indonesia); Akhmad Akhmad (Telkomsel, Indonesia)
1:45 PM - 2:00 PM	1570783549	Simulation of 5G Dense-Urban Deployment at 3.5 GHz Frequency: A Case Study of Central Jakarta	Muhammad Adam Nugraha (Peruri Research Institute for Authenticity (PRiFA), Indonesia); Muhammad Imam Nashiruddin and Ahmad Tri Hanuranto (Telkom University, Indonesia); Akhmad Akhmad (Telkomsel, Indonesia)
2:00 PM – 2:15 PM	1570780000	Simulation and Experimental Study of a Power Amplifier Behaviour to Enhance Relay Node Co-Operative SDR Platform: Performance Analysis	Randy Verdecia-Peña and José I. Alonso (Universidad Politécnica de Madrid, Spain)
2:15 PM - 2:30 PM	1570784211	MPTCP Performance Simulation in Multiple LEO Satellite Environment	Chol Hyun Park (University of Nevada Las Vegas, USA); Phillipe Austria, Yoohwan Kim and Ju-Yeon Jo (University of Nevada, Las Vegas, USA)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 24: COMMUNICATIONS SOFTWARE; COGNITIVE RADIO; OPTICAL NETWORKS
SESSION CHAIR : DENIZ GURKAN (UNIVERSITY OF HOUSTON, USA)

SESSION TIME: 12:45 PM – 2:15 PM (DAY 3: 28th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4897406939>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570783567	Message Parsing Based on Structure Description in IoT for Electric Power and Energy Systems	Ruizhe Ma (Shanghai Institute of Microsystems and Information Technology, Chinese Academy of Sciences & University of Chinese Academy of Sciences, China); Chong Tan (Shanghai Institute of Microsystem and Information Technology & Chinese Academy of Sciences, China); Liu Hong (Shanghai Institute of Microsystem And Information Technology, CAS, China); Min Zheng (Chinese Academy of Sciences, China)
1:00 PM – 1:15 PM	1570784008	Reliable Messaging of Dynamic Content Streams From AMQP to NORM Protocol-Based Systems	Ambar Prajapati (International Paper & University of Memphis, USA)
1:15 PM – 1:30 PM	1570784596	A Scalable Self-Learning Chatbot for Classroom	Yanyan Li and Christopher Martin (California State University San Marcos, USA)
1:30 PM – 1:45 PM	1570780326	Implementation and Evaluation of Spectrum Sharing Technology Using Smart Contract	Nobuo Suzuki and Tatsuya Yoshioka (Advanced Telecommunications Research Institute International, Japan); Akio Hasegawa (ATR Adaptive Communications Research Lab., Japan); Hiroyuki Yokoyama (ATR, Japan); Toshiyuki Maeyama (Takushoku University, Japan)
1:45 PM - 2:00 PM	1570784589	Study on the Nano-Plasmonics and Plasmonic Materials to Improve Photon Absorption in Optical Devices	Richard Kyung and Daniel Seungmin Lee (CRG-NJ, USA)
2:00 PM – 2:15 PM	1570782137	An Investigation of Clinical Laser Applications in Dentistry; A Review and Outlook	Morteza Modarresi Asem (Tehran Medical Sciences University, Iran); Matineh Ghafoorian Eshghi (Tehran Medical Sciences, Iran)

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY 4: 29th January 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.15 AM	<p>KEYNOTE ADDRESS BY PAVEL DMITRIEV (VICE PRESIDENT OF DATA SCIENCE, OUTREACH)</p> <p>TITLE OF TALK: CASCADE: A/B TESTING A.I.</p>	https://zoom.us/j/6319961197
9.15 AM – 10.00 AM	<p>KEYNOTE ADDRESS BY ALYSSA B. APSEL (PROFESSOR, CORNELL UNIVERSITY)</p> <p>TITLE OF TALK: UBIQUITOUS, SEAMLESS, AND FUTURE PROOFED: HOW WIRELESS CIRCUITS CAN PUSH IOT</p>	
10.00 AM - 10.45 AM	<p>KEYNOTE ADDRESS BY BRIAN A. BARSKY (PROFESSOR, UNIVERSITY OF CALIFORNIA, BERKELEY)</p> <p>TITLE OF TALK: HOW PRIORITIZING PROFITS OVER SAFETY CREATED THE DEADLY BOEING 737 MAX AND ITS ILL-CONCEIVED AUTOMATED SOFTWARE</p>	

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

All the timings are given in Pacific Standard Time (PST (UTC-8))

DAY 4: 29th January 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
11:00 AM – 12.15 PM	SECURITY ; UBIQUITOUS COMPUTING	https://zoom.us/j/4109219194
11:00 AM – 12.15 PM	HCI, INFORMATION THEORY, SOFTWARE DEFINED NETWORKS	https://zoom.us/j/6626883577
11:00 AM – 12.15 PM	QUANTUM COMPUTING, SIGNAL AND IMAGE PROCESSING	https://zoom.us/j/9587888372
11:00 AM – 12.15 PM	SIGNAL AND IMAGE PROCESSING ; SENSOR NETWORKS	https://zoom.us/j/4897406939
12:15 PM – 12:30 PM	----- BREAK-----	--NA--
12:30 PM – 1:45 PM	CONTROL SYSTEMS AND APPLICATIONS ; NETWORK SIMULATION	https://zoom.us/j/4109219194
12:30 PM – 1:45 PM	CONTROL SYSTEM, WIRELESS COMMUNICATION	https://zoom.us/j/6626883577
12:30 PM – 1:45 PM	WIRELESS COMMUNICATION	https://zoom.us/j/9587888372

All the timings are given in Pacific Standard Time (PST (UTC-8))

PARALLEL SESSIONS

SESSION 25: SECURITY ; UBIQUITOUS COMPUTING

SESSION CHAIR: INDIRA K DUTTA (ARKANSAS TECH UNIVERSITY, USA)

SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 29th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/4109219194>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570784588	Securing Wireless Signals Using Artificial Phase Noise	M. Ajmal Khan (Bowling Green State University, USA); Rhys Davies and Firas Hassan (Ohio Northern University, USA)
11:15 AM – 11:30 AM	1570784597	Optimization of Survivability of a Mission Critical System in the Presence of Hardware Trojans	Laurent Njilla (Air Force Research Laboratory, USA); Swastik Brahma (Tennessee State University, USA); Mohammad A Rahman (Tuskegee University, USA)
11:30 AM – 11:45 AM	1570783387	The Role of a Light-Based Quantum Computational Model in the Creation of an Oscillating Universe	Pravir Malik (Deep Order Technologies, USA)
11:45 AM - 12:00 PM	1570782190	A Multi-Level Morphological and Stochastic Tagalog Stemming Template	Great Allan Mañibo Ong and Melvin A. Ballera (Technological Institute of the Philippines, Philippines)
12:00 PM -12:15 PM	1570782731	User-Centered Design to Improve Personal Development in Comic Application	Ricky Djamaluddin (Telkom University, Indonesia); Yudi Priyadi (Universitas Telkom, Indonesia)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 26: HCI, INFORMATION THEORY, SOFTWARE DEFINED NETWORKS**SESSION CHAIR: TAUHEED KHAN MOHD (AUGUSTANA COLLEGE, USA)****SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 29th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/6626883577>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570782692	Usability Measurement in User Interface Design Using Heuristic Evaluation & Severity Rating (Case Study: Mobile TA Application Based on MVVM)	Muhammad Irsyad Sabiqun Bil Khairat (Telkom University, Indonesia); Yudi Priyadi (Universitas Telkom, Indonesia)
11:15 AM – 11:30 AM	1570784362	Elimination Algorithm for Group Brain-Computer Interface System	Haiying Ren (China Academy of Information and Communications Technology (CAICT), China); Xinxuan Huang (Internet Society of China, China); Xiaoyong Tang (China Mobile(Chengdu) Industrial Research Institute, China)
11:30 AM – 11:45 AM	1570783049	Rate-Configurable SC-LDGM Codes Concatenated With Zipper Codes for Optical Communication	Yixin Wang and Xiao Ma (Sun Yat-sen University, China)
11:45 AM - 12:00 PM	1570782968	Collaborative Route Management to Mitigate Congestion in Multi-Domain Networks Using SDN	You-Chiun Wang (National Sun Yat-Sen University, Taiwan); Li-Chia Yen (NSYSU, Taiwan)
12:00 PM -12:15 PM	1570784379	Dynamic On-Demand Virtual Extensible LAN Tunnels via Software-Defined Wide Area Networks	Georgi Zakurdaev, Hamood Ismail and Chung-Horng Lung (Carleton University, Canada)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 27: QUANTUM COMPUTING, SIGNAL AND IMAGE PROCESSING**SESSION CHAIR: FADEL LASHHAB (HOWARD UNIVERSITY , USA)****SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 29th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570784336	Novel Encoding Method for Quantum Syndrome Error Correction	Mummadi Swathi (National Institute of Technology Karnataka, India); Bhawana Rudra (National Institute of Technology Karnataka, Surathkal, India)
11:15 AM – 11:30 AM	1570780354	Performance Analysis of a Cylindrical Dielectric Resonator Antenna (CDRA) for the Detection of Early-Stage Stones of the Human Kidney	Fardeen Mahbub and Rashedul Islam (American International University- Bangladesh, Bangladesh)
11:30 AM – 11:45 AM	1570783375	An Empirical Model for 1-D Molecular Communication Diffusive Channels Under Reflecting and Absorbing Boundary Conditions	Saqer Qureish B. Alhloul and Uri Rogers (Eastern Washington University, USA)
11:45 AM - 12:00 PM	1570780355	Design and Performance Analysis of a Wideband Yagi-Uda Antenna for the Early Stage On-Body Cancer and Tumor Diagnosis	Fardeen Mahbub and Rashedul Islam (American International University- Bangladesh, Bangladesh)
12:00 PM -12:15 PM	1570780751	Performance Analysis of Filter Bank Multicarrier With Doppler Effect in Vehicle to Vehicle Communication Channel	Hasna Hanifah Suranto and Titiek Suryani (Institut Teknologi Sepuluh Nopember, Indonesia)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 28: SIGNAL AND IMAGE PROCESSING ; SENSOR NETWORKS**SESSION CHAIR: ROBIN CHATAUT (FITCHBURG STATE UNIVERSITY, USA)****SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 29th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/4897406939>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570784490	Assessing the Information Capacity of Image Based on the Theory of Contrast	Yuriy Romanyshyn (Lviv Polytechnic National University, Ukraine); Sergei Yelmanov (Special Design Office of Television Systems, Ukraine)
11:15 AM – 11:30 AM	1570784443	Application of Convolutional Neural Network for Classification of Consumer Preference From Hybrid EEG andFNIRS Signals	Maria Ramirez (California State University, Fullerton, USA); Shima Kaheh (California State University of Fullerton, USA); Mohammad A Khalil and Kiran George (California State University, Fullerton, USA)
11:30 AM – 11:45 AM	1570784411	Digital IIR Filter Design Using a Differential Evolution Algorithm With Polar Coordinates	Peter Stubberud (UNLV, USA)
11:45 AM - 12:00 PM	1570784076	Implementation of Predistorter for HPA Nonlinearity Mitigation on OQAM FBMC System	S D Prasetyo and Titiek Suryani (Institut Teknologi Sepuluh Nopember, Indonesia)
12:00 PM -12:15 PM	1570782778	Design and Analysis of a Compact Wideband V-Band and W-Band Antenna for Healthcare Applications	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

BREAK : 12:15 PM – 12:30 PM**All the timings are given in Pacific Standard Time (PST (UTC-8))**

SESSION 29: CONTROL SYSTEMS AND APPLICATIONS ; NETWORK SIMULATION**SESSION CHAIR: XIANTA JIANG (MEMORIAL UNIVERSITY OF NEWFOUNDLAND, CANADA)****SESSION TIME : 12:30 PM – 1:45 PM (DAY 4: 29th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/4109219194>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570781438	Design and Sizing of a Microgrid System for a University Community in Nigeria	Stephen Ogbikaya and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
12:45 PM – 1:00 PM	1570782744	Commiteam: Committee Management System	Kareem Al-Nabulsi, Fadi Odeh, Mohammad Kanaan and Ammar JOdeh (Princess Sumaya University for Technology, Jordan)
1:00 PM- 1:15 PM	1570783963	Design and Economic Analysis of Solar Powered Drinking Water Reverse Osmosis Desalination System for a Community in Pakistan	Sheikh Usman Uddin and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
1:15 PM – 1:30 PM	1570784416	BBR Congestion Control Analysis With Multipath TCP (MPTCP) and Asymmetrical Latency Subflow	Phillipe Austria (University of Nevada, Las Vegas, USA); Chol Hyun Park (University of Nevada Las Vegas, USA); Ju-Yeon Jo and Yoohwan Kim (University of Nevada, Las Vegas, USA); Rahul Sundaresan (University of North Carolina at Charlotte, USA); Khanh D. Pham (Air Force Research Laboratory/Space Vehicles Directorate & University of New Mexico/Electrical and Computer Engineering Department, USA)
1:30 PM -1:45 PM	1570783460	A Comparative Study of Solar Water Pump Storage Systems	Amirhossein Jahanfar and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 30: CONTROL SYSTEM, WIRELESS COMMUNICATION
SESSION CHAIR: SAQER QUREISH B. ALHLOUL (EASTERN WASHINGTON UNIVERSITY, USA)

SESSION TIME : 12:30 PM –1:45 PM (DAY 4: 29th January 2022)

PARTICIPATION LINK: <https://zoom.us/j/6626883577>

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570783288	Design and Optimization of Solar PV System for a Fish Farm in Pakistan	Adnan Sarwar (University of Newfoundland, Canada); Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
12:45 PM – 1:00 PM	1570784434	Spectrum Sharing Between Directional-Antenna-Equipped UAV System and Terrestrial Systems	Tao Yu, Kento Kajiwara and Kiyomichi Araki (Tokyo Institute of Technology, Japan); Kei Sakaguchi (Tokyo Institute of Technology & Fraunhofer HHI, Japan)
1:00 PM- 1:15 PM	1570784536	Frequency Hopping Acquisition Based on Variable Forgetting Factor Recursive Least Squares Algorithm	Zengmao Chen, Xianwu Zhao, Li Lu and Rongchen Sun (Harbin Engineering University, China); Sun Zhiguo (Harbin Engineering University, Harbin, China)
1:15 PM – 1:30 PM	1570783579	Ground Experiment of Full-Duplex Multi-UAV System Enabled by Directional Antennas	Tao Yu and Kiyomichi Araki (Tokyo Institute of Technology, Japan); Kei Sakaguchi (Tokyo Institute of Technology & Fraunhofer HHI, Japan)
1:30 PM -1:45 PM	1570784489	Power Control in Local 5G/Beyond Systems Utilizing Spectrum Database and Monte Carlo Stochastic Programming	Tetsuki Taniguchi (University of Electro-Communications, Japan); Takeo Fujii (The University of Electro-Communications, Japan)

All the timings are given in Pacific Standard Time (PST (UTC-8))

SESSION 31: WIRELESS COMMUNICATION**SESSION CHAIR: EDSON URSINI (UNIVERSITY OF CAMPINAS, BRAZIL)****SESSION TIME : 12:30 PM –1:45 PM (DAY 4: 29th January 2022)****PARTICIPATION LINK: <https://zoom.us/j/9587888372>**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:30 PM – 12:45 PM	1570779502	Joint Analysis of Success and Outage Probability in 5G Multi-Tier Heterogeneous Network	Mobasshir Mahbub (Ahsanullah University of Science and Technology, Bangladesh); Raed Shubair (New York University (NYU) Abu Dhabi, United Arab Emirates); Bobby Barua (BUET & Ahsanullah University of Science and Technology, Bangladesh)
12:45 PM – 1:00 PM	1570783813	The Road to 6G, Vision, Drivers, Trends, and Challenges	Ahmed Hassebo (School of Engineering, USA & Wentworth Institute of Technology, USA)
1:00 PM- 1:15 PM	1570783690	A Survey From 1G to 5G Including the Advent of 6G: Architectures, Multiple Access Techniques, and Emerging Technologies	A. F. M. Shahen Shah (Yildiz Technical University, Turkey)
1:15 PM – 1:30 PM	1570783006	Limitations of Static Autonomous Scheduling for TSCH Protocol and Advances in Adaptive Scheduling	Sana Rekik (ReDCAD Laboratory, National School of Engineers of Sfax, Tunisia)
1:30 PM - 1:45 PM	1570783120	A Proposed Method for Synthesizing the Radiation Pattern of Linear Antenna Arrays	Amin Al Ka'bi (Australian College of Kuwait, Kuwait)

VALEDICTORY SESSION**2:15 PM–3:15 PM****PARTICIPATION LINK: <https://zoom.us/j/6319961197>**

All the timings are given in Pacific Standard Time (PST (UTC–8))