



IEEE World AI IoT Congress 2022

AIIoT 2022

SEATTLE, WA, USA - VIRTUAL CONFERENCE

6th – 9th JUNE 2022

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

TECHNICAL SCHEDULE

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All the timings are given in Pacific Daylight Time (PDT (UTC-07))

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All the timings are given in Pacific Daylight Time (PDT (UTC-07))

DAY 1: 6th June 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.00 AM	INAUGURATION	
9.00 AM – 9:45 AM	KEYNOTE ADDRESS BY HENRY TYE (PROFESSOR, THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, HONG KONG) TITLE OF TALK: HOW OUR UNIVERSE WAS CREATED	
9:45 AM - 10.30 AM	KEYNOTE ADDRESS BY RAJ JAIN (PROFESSOR, WASHINGTON UNIVERSITY IN ST. LOUIS, USA) TITLE OF TALK: CHALLENGES AND ISSUES IN AI FOR IOT SECURITY	
10.30 AM -11.15 AM	KEYNOTE ADDRESS BY CHRIS BOSHUIZEN (CO-FOUNDER OF PLANET LABS) TITLE OF TALK: LESSONS FROM THE TRANSFORMATION OF SPACE EXPLORATION	

11:15 AM – 11:30 AM	BREAK
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All the timings are given in Pacific Daylight Time (PDT (UTC-07))

DAY 1: 6th June 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
11:30 AM – 1:00 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
11:30 AM – 12:45 PM	COMPUTATIONAL INTELLIGENCE, BIG DATA	
11:30 AM – 1:00 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
1:00 PM – 1:15 PM	BREAK	
1:15 PM – 2:45 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
1:15 PM – 2:30 PM	BIG DATA, COMPUTER VISION, NEURAL NETWORKS	
1:15 PM – 2:45 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	

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DAY 1: 6th June 2022

PARALLEL SESSIONS

SESSION 1: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: KAUSHALLYA ADHIKARI (UNIVERSITY OF RHODE ISLAND, USA)

SESSION TIME: 11:30 AM – 1:00 PM (DAY 1: 6th June 2022)

PARTICIPATION LINK:

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570795356	Machine Learning-Based System for Monitoring Social Distancing and Mask Wearing	Mohammed Faisal Naji and Chibli Joumaa (Kuwait College of Science and Technology, Kuwait)
11:45 AM - 12:00 PM	1570808820	Feature Fusion Network Based on Hybrid Attention for Semantic Segmentation	Xinchen Xie (Xi'an Jiaotong University, China); Chen Li (Dept. of Electronic & Information Engineering, China); Lihua Tian (Xi'an Jiaotong University, China)
12:00 PM -12:15 PM	1570805962	Leveraging Transfer Learning and GAN Models for OCR From Engineering Documents	Wael Khallouli (Old Dominion University, USA); Jiang Li (Old Dominion University & Electrical and Computer Engineering, USA); Samuel Kovacic, Raphael Pamie-George and Andres Sousa-Poza (Old Dominion University, USA); Mustafa Canan (Naval Postgraduate School, USA)
12:15 PM – 12:30 PM	1570806027	Real Time FPGA-Based CNN Training and Recognition of Signals	Tyler Groom and Kiran George (California State University, Fullerton, USA)
12:30 PM - 12:45 PM	1570806267	A Review on Suicidal Ideation Detection Based on Machine Learning and Deep Learning Techniques	Tanya Bhardwaj, Paridhi Gupta, Akshita Goyal, Akanksha Nagpal and Vivekanand Jha (Indira Gandhi Delhi Technical University for Women, India)
12:45 PM -1:00 PM	1570809501	Ensemble Reinforcement Learning Framework for Sum Rate Optimization in NOMA-UAV Network	Syed Khurram Mahmud (Queen Mary University of London & School of Electronic Engineering and Computer Sciences, United Kingdom (Great Britain)); Yue Chen and Kok Keong Chai (Queen Mary University of London, United Kingdom (Great Britain))

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SESSION 2: COMPUTATIONAL INTELLIGENCE, BIG DATA**SESSION CHAIR: SUDARSHAN S CHAWATHE (UNIVERSITY OF MAINE, USA)****SESSION TIME: 11:30 AM – 12:45 PM (DAY 1: 6th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570805872	Clustering and Classification Models for Student's Grit Detection in E-Learning	Renato R. Maaliw III, Karen Anne C. Quing, Julie Ann B. Susa and Jed Frank S. Marqueses (Southern Luzon State University, Philippines); Ace C. Lagman, Rossana T. Adao and Ma. Corazon Fernando - Raguro (FEU Institute of Technology, Philippines); Ranie B. Canlas (Don Honorio Ventura State University, Philippines)
11:45 AM - 12:00 PM	1570806571	To Offload or Not? An Analysis of Big Data Offloading Strategies From Edge to Cloud	Raghubir Singh (University of Bristol, United Kingdom (Great Britain)); Tamas Kiss and Jozsef Kovacs (University of Westminster, United Kingdom (Great Britain))
12:00 PM -12:15 PM	1570806357	Data Quality Management Improvement: Case Studi PT BPI	Nandang Sunandar and Achmad Hidayanto (University of Indonesia, Indonesia)
12:15 PM – 12:30 PM	1570802864	Analysis of the Financial Efficiency of Companies in the Industrial Sector During COVID-19: Case Study in Peru	Lucero Sovero Rivera, Nicole Ninamango and Grimaldo Quispe Santivañez (Universidad Continental, Peru)
12:30 PM - 12:45 PM	1570805378	Using Timer Data to Conjunct Self-Reported Measures in Quantifying Deception	Kevin Matthe Caramancion (University at Albany, SUNY, USA)

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SESSION 3: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: JOEL COFFMAN (UNITED STATES AIR FORCE ACADEMY & JOHNS HOPKINS UNIVERSITY, USA)****SESSION TIME: 11:30 AM – 1:00 PM (DAY 1: 6th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:30 AM – 11:45 AM	1570809292	Genetics Algorithm for Logistic-Route Optimization in Urban Area	Nur Uddin and Hendi Hermawan (Universitas Pembangunan Jaya, Indonesia); Nur Rachmawati (Universitas Pertamina, Indonesia); Hendy Tannady (Universitas Pembangunan Jaya, India)
11:45 AM - 12:00 PM	1570805834	Towards A Lightweight Identity Management and Secure Authentication for IoT Using Blockchain	Shereen Ismail (University of North Dakota, USA); Diana Dawoud (University of Dubai, United Arab Emirates); Hassan Reza (University of North Dakota, USA)
12:00 PM -12:15 PM	1570806526	Neighbor-Based Optimized Logistic Regression Machine Learning Model for Electric Vehicle Occupancy Detection	Sayan Shaw and Keaton Chia (University of California San Diego, USA); Jan Kleissl (University of California, San Diego, USA)
12:15 PM – 12:30 PM	1570808170	A Face Recognition Method Using Deep Learning to Identify Mask and Unmask Objects	Saroj Mishra and Hassan Reza (University of North Dakota, USA)
12:30 PM - 12:45 PM	1570799586	Man-In-The-Middle Attack Explainer for Fog Computing Using Soft Actor Critic Q-Learning Approach	Bhargavi K (Viveswaraya Technological University, India); Sajjan Shiva (University of Memphis, USA)
12:45 PM -1:00 PM	1570799588	MVE-Based Reinforcement Learning Framework With Explainability for Improving Quality of Experience of Application Placement in Fog Computing	Bhargavi K (Viveswaraya Technological University, India); Sajjan Shiva (University of Memphis, USA)

1:00 PM – 1:15 PM**BREAK****All the timings are given in Pacific Daylight Time (PDT (UTC-07))**

PARALLEL SESSIONS

SESSION 4: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR : JOSEPH SQUILLACE (PENN STATE UNIVERSITY SCHUYLKILL, USA)

SESSION TIME: 1:15 PM – 2:45 PM (DAY 1: 6th June 2022)

PARTICIPATION LINK:

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570799361	A Deep Learning Approach for Automatic Scoliosis Cobb Angle Identification	Renato R. Maaliw III (Southern Luzon State University, Philippines); Ace C. Lagman and Shaneth C. Ambat (FEU Institute of Technology, Philippines); Alvin S. Alon (Batangas State University, Philippines); Manuel B. Garcia (FEU Institute of Technology, Philippines); Julie Ann B. Susa (Southern Luzon State University, Philippines); Keno C. Piad (Bulacan State University, Philippines); Ma. Corazon Fernando - Raguro (FEU Institute of Technology, Philippines)
1:30 PM – 1:45 PM	1570802911	Power and Telecommunication Lines Detection and Avoidance for Drones	Tauheed Khan Mohd and Paul Addai (Augustana College, USA)
1:45 PM – 2:00 PM	1570797602	Major Threats to the Continued Adoption of Artificial Intelligence in Today's Hyperconnected World	Opeoluwa Tosin Eluwole (Deloitte LLP, United Kingdom (Great Britain)); Segun Akande (Bournemouth University, United Kingdom (Great Britain)); Oluwole Abiodun Adegbola (Ladoke Akintola University of Technology, Nigeria)
2:00 PM – 2:15 PM	1570802257	Disrupting the Cooperative Nature of Intelligent Transportation Systems	Sultan Ahmed Almalki, Ahmed Abdel-Rahim and Frederick T Sheldon (University of Idaho, USA)
2:15 PM - 2:30 PM	1570810540	An Evaluation and Embedded Hardware Implementation of YOLOv5 for Real-Time Wildfire Detection	Nansong Wu (Sonoma State University, USA)
2:30 PM – 2:45 PM	1570806717	An Approach for Automatic Discovery of Rules Based on ECG Data Using Learning Classifier Systems	Muthana Zouri (Ryerson University, Canada)

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SESSION 5: BIG DATA, COMPUTER VISION, NEURAL NETWORKS**SESSION CHAIR : SUDARSHAN S CHAWATHE (UNIVERSITY OF MAINE, USA)****SESSION TIME: 1:15 PM – 2:30 PM (DAY 1: 6th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570809097	Detecting Fake and Truthful News on Social Media Networks Using Data Mining Techniques	Shadi Banitaan (University of Detroit Mercy, USA); Hebah Alquran (Eastern Michigan University, USA)
1:30 PM – 1:45 PM	1570802435	No-Clear for Nuclear	Eman Abdelfattah, Sanskar Marahata, Sandra Ibrahim and Audrina Dobrevic (Ramapo College of New Jersey, USA)
1:45 PM – 2:00 PM	1570806425	Computer Vision Method in Means of Egress Obstruction Detection	Ismail A Idowu (Morgan State University, USA)
2:00 PM – 2: 15 PM	1570806010	Cyber Security Vulnerability Detection Using Natural Language Processing	Sakshi Grover, Ranjini Kishen Kumar, Kanchan Singh and Sumedh Pundkar (SNDT Women's University, India)
2:15 PM - 2:30 PM	1570808130	Shift-Invariant Structure-Imposed Convolutional Neural Networks for Direction of Arrival Estimation	Kaushallya Adhikari (University of Rhode Island, USA)

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SESSION 6: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR : MD LIAKAT ALI (RIDER UNIVERSITY, USA)****SESSION TIME: 1:15 PM – 2:45 PM (DAY 1: 6th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
1:15 PM – 1:30 PM	1570806491	Lung Cancer Prediction Model Using Ensemble Learning Techniques and a Systematic Review Analysis	Muntasir Mamun and Afia Farjana (University of South Dakota, USA); Miraz Al Mamun (Sanford Health, USA); Md Salim Ahammed (University of South Dakota, USA)
1:30 PM – 1:45 PM	1570809219	Heart Failure Survival Prediction Using Machine Learning Algorithm: Am I Safe From Heart Failure?	Muntasir Mamun and Afia Farjana (University of South Dakota, USA); Miraz Al Mamun (Sanford Health, USA); Md Salim Ahammed and Md Minhazur Rahman (University of South Dakota, USA)
1:45 PM – 2:00 PM	1570809070	Classification of COVID-19 in Chest X-Ray Images Using Fusion of Deep Features and LightGBM	Hamid Nasiri (Amirkabir University of Technology, Iran); Ghazal Kheyroddin and Morteza Dorrigiv (Semnan University, Iran); Mona Esmaeili and Amir Raeisi Nafchi (University of New Mexico, USA); Mohsen Haji Ghorbani (Technical and Vocational University (TVU), Iran); Payman Zarkesh-Ha (University of New Mexico, USA)
2:00 PM – 2:15 PM	1570795356	Machine Learning-Based System for Monitoring Social Distancing and Mask Wearing	Mohammed Faisal Naji and Chibli Joumaa (Kuwait College of Science and Technology, Kuwait)
2:15 PM - 2:30 PM	1570806211	Ship Deck Segmentation in Engineering Document Using Generative Adversarial Networks	Mohammad Shahab Uddin, Raphael Pamie-George, Samuel Kovacic and Andres Sousa-Poza (Old Dominion University, USA); Jiang Li (Old Dominion University & Electrical and Computer Engineering, USA); Daron Wilkins (Old Dominion University, USA); Mustafa Canan (Naval Postgraduate School, USA)
2:30 PM – 2:45 PM	1570806219	Implementation of Machine Learning in BCI Based Lie Detection	Mohammad A Khalil, Kiran George, Maria Ramirez and Johnny Can (California State University, Fullerton, USA)

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DAY 2: 7th June 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.15 AM	KEYNOTE ADDRESS BY PATRICK S.P. WANG (PROFESSOR, NORTHEASTERN UNIVERSITY, USA) TITLE OF TALK: INTELLIGENT PATTERN RECOGNITION (IPR) AND APPLICATIONS TO IMAGING	
9.15 AM – 10.00 AM	KEYNOTE ADDRESS BY GAURAV SHARMA (PROFESSOR, UNIVERSITY OF ROCHESTER, USA) TITLE OF TALK: AI AND IOT IN HEALTHCARE: A CLINICAL PERSPECTIVE	
10.00 AM - 10.45 AM	KEYNOTE ADDRESS BY VASILIS SYRGKANIS (PRINCIPAL RESEARCHER AT MICROSOFT RESEARCH, NEW ENGLAND) TITLE OF TALK: TOWARDS AUTOMATING THE CAUSAL INFERENCE PIPELINE	

10.45 AM - 11.00 AM

BREAK

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Day 2: 7th June 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
11:00 AM – 12.30 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
11:00 AM – 12.30 PM	PARALLEL PROCESSING,CLOUD COMPUTING,COMPUTER GRAPHICS	
11:00 AM – 12.30 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
12:30 PM – 12:45 PM	BREAK	
12:45 PM – 2:15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
12:45 PM – 2:15 PM	COMPUTER GRAPHICS, CRYPTOGRAPHY, PARALLEL ALGORITHMS	
12:45 PM – 2:15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	

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PARALLEL SESSIONS

SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR : KAUSHALLYA ADHIKARI (UNIVERSITY OF RHODE ISLAND, USA)

SESSION TIME: 11:00 AM – 12.30 PM (DAY 2: 7th June 2022)

PARTICIPATION LINK:

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570805971	Deep Learning Techniques for Joint Named Entities and Relation Extraction	Mina Esmail Zadeh Nojoo Kamar and Armin Esmailzadeh (University of Nevada Las Vegas, USA); Maryam Heidari (George Mason University, USA)
11:15 AM – 11:30 AM	1570809119	Deep Learning Models for Water Potability Classification in Rural Areas in the Philippines	Argeen Blanco, Lance Victor Del Rosario, Ken Ichiro Jose and Melchizedek Alipio (De La Salle University, Philippines)
11:30 AM – 11:45 AM	1570805137	Deep Learning Autoencoder Based Anomaly Detection Model on 4G Network Performance Data	Md. Rakibul Ahasan (Brac University, Bangladesh); Mirza Sanita Haque (Miami University, Bangladesh); Mohammad Rubbyat Akram and Mohammed Fahim Momen (Robi Axiata Ltd., Bangladesh); Md. Golam Rabiul Alam (BRAC University, Bangladesh)
11:45 AM - 12:00 PM	1570805773	ML 360: Machine Learning Model Evaluation for 360 Degree Video Caching	Md Milon Uddin (The University of Texas at Tyler, USA); Jounsup Park (University of Texas at Tyler, USA)
12:00 PM -12:15 PM	1570806767	Detection of Faults in Electro-Hydrostatic Actuators Using Feature Extraction Methods and an Artificial Neural Network	Maryam Ghanbari, Witold Kinsner and Nariman Sepehri (University of Manitoba, Canada)
12:15 PM - 12:30 PM	1570806697	Classification of "Like" and "Dislike" Decisions From EEG and fNIRS Signals Using a LSTM Based Deep Learning Network	Maria Ramirez, Mohammad A Khalil, Johnny Can and Kiran George (California State University, Fullerton, USA)

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SESSION 8: PARALLEL PROCESSING,CLOUD COMPUTING,COMPUTER GRAPHICS**SESSION CHAIR : TAMAS KISS (UNIVERSITY OF WESTMINSTER, UNITED KINGDOM (GREAT BRITAIN))****SESSION TIME: 11:00 AM – 12.15 PM (DAY 2: 7th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570806376	Practical Applications of Edge Computing to Accelerate Cloud Hosted Web Content	Jacob Koch and Wei Hao (Northern Kentucky University, USA)
11:15 AM – 11:30 AM	1570808460	Cloud Computing Security and Future	Md Minhaz Chowdhury and Patrick Kopacz (East Stroudsburg University of Pennsylvania, USA)
11:30 AM – 11:45 AM	1570809474	Honeynets and Cloud Security	Md Minhaz Chowdhury (East Stroudsburg University of Pennsylvania, USA); Eric M Toth (East Stroudsburg University, USA)
11:45 AM - 12:00 PM	1570806139	Using Amazon Managed Blockchain for ePHI: An Analysis of Hyperledger Fabric and Ethereum	Audrey Long and Daniel Choi (Johns Hopkins University, USA); Joel Coffman (United States Air Force Academy & Johns Hopkins University, USA)
12:00 PM -12:15 PM	1570806718	Performance Evaluation of Naïve Bayesian Algorithms for Cyber-Attacks Detection in Wireless Sensor Networks	Shereen Ismail and Hassan Reza (University of North Dakota, USA)

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SESSION 9: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR : BROOK ABEGAZ (LOYOLA UNIVERSITY CHICAGO, USA)****SESSION TIME: 11:00 AM – 12.30 PM (DAY 2: 7th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570806453	Automatic Sentence Segmentation in European Portuguese Speech: Spectrogram Identification Through Windowing	Lap Man Hoi and Yuqi Sun (Macao Polytechnic University, Macao); Sio Kei Im (Macao Polytechnic Institute, Macao)
11:15 AM – 11:30 AM	1570806859	COVID-19 Prediction Based on Infected Cases and Deaths of Bangladesh Using Deep Transfer Learning	Khan Md. Hasib (Ahsanullah University of Science and Technology & BRAC University, Bangladesh); Shadman Sakib (Leading University, Bangladesh & International University of Business Agriculture and Technology, Bangladesh); Jubayer Al Mahmud (University of Dhaka, Bangladesh); Kamruzzaman Mithu (United International University, Bangladesh); Md. Saifur Rahman (Bangladesh University of Business and Technology, Bangladesh); Mohammad Shafiul Alam (Ahsanullah University of Science and Technology, Bangladesh)
11:30 AM – 11:45 AM	1570807082	Detecting Amazon Bot Reviewers Using Unsupervised and Supervised Learning	Khaled A Silhoub and Brandon Wood (Florida Institute of Technology, USA)
11:45 AM - 12:00 PM	1570806213	Pulse and Signal Data Classification Using Conventional and Few-Shot Machine Learning	Kayla J Lee and Kiran George (California State University, Fullerton, USA)
12:00 PM -12:15 PM	1570806695	EEG and fNIRS Analysis Using Machine Learning to Determine Stress Levels	Javier De La Cruz, Douglas Shimizu and Kiran George (California State University, Fullerton, USA)
12:15 PM - 12:30 PM	1570806426	Develop a Mobile Application Prototype for Occupant Centric in Facility Maintenance Management	Mohamed Binalhaj, Hexu Liu, Mohammed Sulaiman and Osama Abudayyeh (Western Michigan University, USA)

12:30 PM – 12:45 PM**BREAK****All the timings are given in Pacific Daylight Time (PDT (UTC-07))**

PARALLEL SESSIONS

SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: SHADI BANITAAN (UNIVERSITY OF DETROIT MERCY, USA)

SESSION TIME: 12:45 PM – 2:15 PM (DAY 2: 7th June 2022)

PARTICIPATION LINK:

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570806512	Predicting Cryptocurrency Price Change Direction From Supply-Side Factors via Machine Learning Methods	David Mayo and Heba Elgazzar (Morehead State University, USA)
1:00 PM – 1:15 PM	1570806997	Comparative Analysis of AlexNet, Resnet-50, and Inception-V3 Models on Masked Face Recognition	George K. Agordzo (Anhui University of Science and Technology, China)
1:15 PM – 1:30 PM	1570806720	Real-Time Dynamic Object Grasping With a Robotic Arm: A Design for Visually Impaired Persons	Francis X Liri, Austin Luu, Kiran George, Axel Angulo and Johnathan Dittloff (California State University, Fullerton, USA)
1:30 PM - 1:45 PM	1570805011	Covid-EnsembleNet: An Ensemble Based Approach for Detecting Covid-19 by Utilising Chest X-Ray Images	Abdullah Al-Monsur (IUT, Bangladesh); MD Rizwanul Kabir (Islamic University of Technology (IUT), Bangladesh); Abrar Mohammad Ar-Rafi (IUT, Bangladesh); Mirza Muntasir Nishat, Fahim Faisal and Mohammad Rakibul Islam (Islamic University of Technology, Bangladesh)
1:45 PM - 2:00 PM	1570805820	Toward Detecting Cyberattacks Targeting Modern Power Grids: A Deep Learning Framework	Ehsan Naderi and Arash Asrari (Southern Illinois University, USA)
2:00 PM - 2: 15 PM	1570805591	A Review of Human Immune Inspired Algorithms for Intrusion Detection Systems	Chukwuemeka Duru (Morgan State University, USA)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 11: COMPUTER GRAPHICS, CRYPTOGRAPHY, PARALLEL ALGORITHMS**SESSION CHAIR: TAUHEED KHAN MOHD (AUGUSTANA COLLEGE, USA)****SESSION TIME: 12:45 PM – 2:15 PM (DAY 2: 7th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570805744	Simulating the Behaviour and Displacement of Women in Water-Stressed Areas	Aakib Bin Nesar and Tahseena Mahmud (North South University, Bangladesh); Fahreen Hossain (Bangladesh University of Engineering and Technology, Bangladesh)
1:00 PM – 1:15 PM	1570810543	Red Toad, Blue Toad, Hacked Toad?	Suman Bhunia (Miami University, Ohio, USA)
1:15 PM – 1:30 PM	1570805178	Comperative Study of Sha-256 Optimization Techniques	Bharat S Rawal (Capitol Technology University, USA); Lingampally Kumar, Varun Godha and Sriram Maganti (Gannon University, USA)
1:30 PM – 1:45 PM	1570806705	A Distributed Average Cost Reinforcement Learning Approach for Power Control in Wireless 5G Networks	Andrea Tortorelli (Sapienza University of Rome & Consorzio per La Ricerca Nell'automatica e Nelle Telecomunicazioni, Italy); Alessandro Giuseppe (University of Rome Sapienza, Italy); Antonio Ornatelli (Sapienza University of Rome, Italy)
1:45 PM – 2:00 PM	1570806129	A Review on Energy Efficient Strategies for Corona Based Architecture in Wireless Sensor Networks	Aaniya Agrawala, Vidhi Katyal, Neha Pandey, Astha Jain and Vivekanand Jha (Indira Gandhi Delhi Technical University for Women, India)
2:00 PM – 2:15 PM	1570806698	Performance Evaluation of a New One-Time Password (OTP) Scheme Using Stochastic Petri Net (SPN)	Jonayet Miah (University of South Dakota, USA); Razib Hayat Khan (Independent University Bangladesh, Bangladesh)

SESSION 12: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR: NARIMAN SEPEHRI (UNIVERSITY OF MANITOBA, CANADA)****SESSION TIME: 12:45 PM – 2:15 PM (DAY 2: 7th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570805279	Wearable Sensing and Physical Exercise Recognition	Xiaojie Mu (University of St. Thomas, USA); Cheol-Hong Min (University of Saint Thomas, USA)
1: 00 PM – 1:15 PM	1570806158	An Outcome Based Analysis on Heart Disease Prediction Using Machine Learning Algorithms and Data Mining Approaches	Aushtmi Deb, Adil Chowdhury, Mst. Sadia Koli and Sheikh Akter (Leading University, Bangladesh)
1:15 PM – 1:30 PM	1570809492	MusCare+: Muscle Monitoring for Anomalies	Nicholas Foley and Chen-Hsiang Yu (Wentworth Institute of Technology, USA)
1:30 PM – 1:45 PM	1570806701	Comparing Pretrained Image-Net CNN With a Siamese Architecture for Few-Shot Learning Applications in Radar Systems	Cesar Martinez Melgoza, Tyler Groom, Kayla J Lee, Nate Ruppert, Kiran George and Henry Lin (California State University, Fullerton, USA)
1:45 PM - 2:00 PM	1570806124	Day Ahead Power Demand Forecasting for Hybrid Power at the Edge	Calum Robert McCormack (Glasgow Caledonian University & Aggreko, Innovate, United Kingdom (Great Britain)); Peter Barrie and Gordon Morison (Glasgow Caledonian University, United Kingdom (Great Britain)); Christopher Wallace (Aggreko, United Kingdom (Great Britain))
2:00 PM – 2:15 PM	1570805411	Classification of Various Workout Motions Using Wearable Sensors	Chad O'Brien (University of St. Thomas, USA); Cheol-Hong Min (University of Saint Thomas, USA)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

DAY 3: 8th June 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.15 AM	KEYNOTE ADDRESS BY NITIN VAIDYA (PROFESSOR, GEORGETOWN UNIVERSITY, USA) TITLE OF TALK: SECURITY AND PRIVACY FOR DISTRIBUTED OPTIMIZATION AND LEARNING	
9.15 AM – 10.00 AM	KEYNOTE ADDRESS BY CYNTHIA RUDIN (PROFESSOR, DUKE UNIVERSITY, USA) TITLE OF TALK: THE EXTREME OF INTERPRETABILITY IN MACHINE LEARNING	
10.00 AM - 10.45 AM	KEYNOTE ADDRESS BY YU (HUGO) CHEN (RESEARCH SCIENTIST, FACEBOOK META AI) TITLE OF TALK: GRAPH STRUCTURE LEARNING FOR GRAPH NEURAL NETWORKS	

10:45 AM - 11:00 AM

BREAK

WORKSHOP

Workshop on Internet of Things (IoT) Blockchains using Raspberry Pi virtual machines (VMs)
By
Dr. Phillip Bradford (University of Connecticut, Stamford, USA)

11.00 AM – 2.00 PM

PARTICIPATION LINK:

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

DAY 3: 8th June 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
11:00 AM – 12.30 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
11:00 AM – 12.30 PM	ROBOTICS, SECURITY	
11:00 AM – 12.15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
12:30 PM – 12:45 PM	BREAK	
12:45 PM – 2:15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	
12:45 PM – 2:00 PM	SECURITY	
12:45 PM – 2:15 PM	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, COMPUTATIONAL INTELLIGENCE	

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

PARALLEL SESSIONS

SESSION 13: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

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

SESSION TIME: 11:00 AM – 12:30 PM (DAY 3: 8th June 2022)

PARTICIPATION LINK:

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570806702	Graph Attention Neural Network Distributed Model Training	Armin Esmaeilzadeh (University of Nevada Las Vegas, USA); Maryam Heidari (George Mason University, USA); Mina Esmail Zadeh Nojoo Kamar (University of Nevada Las Vegas, USA)
11:15 AM – 11:30 AM	1570806429	Using Machine Learning and Regression Analysis to Classify and Predict Danger Levels in Burning Sites	Adenrele Adeniyi Ishola and Damian Valles (Texas State University, USA)
11:30 AM – 11:45 AM	1570804995	Comparative Analysis of ARIMA and LSTM Machine Learning Algorithm for Stock Price Prediction	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
11:45 AM - 12:00 PM	1570806721	Predicting Audio Training Learning Outcomes Using EEG Data and KNN Modeling	Abel Desoto (California State University of Fullerton, USA); Francis X Liri and Kiran George (California State University, Fullerton, USA); Julia R Drouin (California State University Fullerton, USA); Kenneth J Faller II (California State University, Fullerton, USA); Joshua Dodd (California State University of Fullerton, USA); Ethan Santos (California State University of Fullerton, USA); Devin Heng (California State University Fullerton, USA)
12:00 PM -12:15 PM	1570805743	Electronic Device for Acquiring Images of Sardine Cans	Abderrahim Sekkaki (University, Morocco); Salah-Eddine Mansour (University Hassan II of Casablanca & University Hassan II, France); Abdelhak Sakhi (University Hassan II of Casablanca & IT Laboratory, Morocco); Larbi Kzaz (ISCAE, Morocco); Amine Errouthbi (University Hassan II of Casablanca, Morocco)
12:15 PM - 12:30 PM	1570799159	Extraction of Step Performed in Use Case Description as a Reference for Conformity of Sequence Diagrams Using Text Mining (Case Study: SRS APTU)	Nur Apriyanto (Universitas Telkom, Indonesia); Yudi Priyadi and Dana Sulisty Kusumo (Telkom University, Indonesia)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 14: ROBOTICS, SECURITY**SESSION CHAIR : JOSEPH SQUILLACE (PENN STATE UNIVERSITY SCHUYLKILL, USA)****SESSION TIME: 11:00 AM – 12:30 PM (DAY 3: 8th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570806144	Comparison of Task Performance and User Satisfaction Between Holographic and Standard QWERTY Keyboard	Tauheed Khan Mohd and Talha Hassan (Augustana College, USA)
11:15 AM – 11:30 AM	1570806297	Salted Egg Cleaning and Grading System Using Machine Vision	Laily Mariz A. Bengua, Vanessa Jane D. De Guzman, Danica Mae S. Macunat and Efren D. Villaverde (Southern Luzon State University, Philippines); Aubee T. Mahusay (Mapua University, Philippines & Southern Luzon State University, Philippines); Renato R. Maaliw III (Southern Luzon State University, Philippines); Ace C. Lagman (FEU Institute of Technology, Philippines); Alvin S. Alon (Batangas State University, Philippines)
11:30 AM – 11:45 AM	1570809455	Ensuring Web Integrity Through Content Delivery Networks	Zhao Xiang Lim, Xiu Qi Ho, Daniel Zhonghao Tan and Weihao Goh (Singapore Institute of Technology, Singapore)
11:45 AM - 12:00 PM	1570802023	A Study on Brute Force Attack on T-Mobile Leading to SIM-Hijacking and Identity-Theft	Christopher D. Faircloth, Gavin E. Hartzell and Nathan Callahan (Miami University, USA); Suman Bhunia (Miami University, Ohio, USA)
12:00 PM -12:15 PM	1570798635	Survey on Types of Cyber Attacks on Operating System Vulnerabilities Since 2018 Onwards	Tauheed Khan Mohd, Maame Vander-Pallen, Paul Addai and Stuart Isteefanos (Augustana College, USA)
12:15 PM - 12:30 PM	1570806574	Proof-Of-Concept for a Granular Incident Management Information Sharing Scheme	Ivo Emanuilov (KU Leuven Centre for IT & IP Law, Belgium); Outi-Marja Latvala (VTT Technical Research Centre of Finland Ltd, Finland); Tatu Niskanen (University of Jyväskylä, Finland); Pia Raitio (Finnish Transport Infrastructure Agency, Finland); Jarno Salonen (VTT Technical Research Centre of Finland, Finland); Diogo Santos (Sistrade - Software Consulting, S.A., Portugal); Katerina Yordanova (KU Leuven Centre for IT & IP Law, Belgium)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 15: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**SESSION CHAIR : YUE CHEN (QUEEN MARY UNIVERSITY OF LONDON, UNITED KINGDOM (GREAT BRITAIN))****SESSION TIME: 11:00 AM – 12:15 PM (DAY 3: 8th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570799584	Energy Efficient Double Critic Deep Deterministic Policy Gradient Framework for Fog Computing	Bhargavi K (Viveswaraya Technological University, India); Sajjan Shiva (University of Memphis, USA)
11:15 AM – 11:30 AM	1570802500	Fake Product Review Detection Using Machine Learning	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh); Ipseeta Nanda (unknown); Rajesh Dey (Asst Prof, India)
11:30 AM – 11:45 AM	1570809088	Profit Prediction Based on Financial Statements Using Deep Neural Network	Alonso A Montesinos (University of Arizona, USA)
11:45 AM - 12:00 PM	1570809356	CNN-Based Hyperparameter Optimization Approach for Road Pothole and Crack Detection Systems	Zahra Salsabila Hernanda (Politeknik Elektronika Negeri Surabaya, Indonesia); Haniah Mahmudah (EEPIS, Indonesia); Rahardhita Sudibyo (Politeknik Elektronika Negeri Surabaya, Indonesia)
12:00 PM -12:15 PM	1570806690	Violence Detection Using Computer Vision Approaches	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)

12:30 PM – 12:45 PM	BREAK
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All the timings are given in Pacific Daylight Time (PDT (UTC-07))

PARALLEL SESSIONS

SESSION 16: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR : SHADI BANITAAN (UNIVERSITY OF DETROIT MERCY, USA)

SESSION TIME: 12:45 PM – 2:15 PM (DAY 3: 8th June 2022)

PARTICIPATION LINK:

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570805963	Data Analysis for Gerrymandering in Texas in Quality of Children's Lives	Maryam Heidari, Srisuda Kittisupakorn and Bloti Teh (George Mason University, USA)
1: 00 PM – 1:15 PM	1570806666	Low-Cost Ensembling for Deep Neural Network Based Non-Intrusive Load Monitoring	Velmanickam Logeeshan (University of Moratuwa, Sri Lanka)
1: 15 PM – 1:30 PM	1570806595	Research and Development of an E-Commerce With Sales Chatbot	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
1:30 PM – 1:45 PM	1570806657	Development of Cloud-Based Infrastructure for Real Time Analysis of Wearable Sensor Signal	Kabir Hossain (The University of Alabama, USA)
1:45 PM – 2:00 PM	1570806659	HomeIO: Offline Smart Home Automation System With Automatic Speech Recognition and Household Power Usage Tracking	Velmanickam Logeeshan (University of Moratuwa, Sri Lanka)
2:00 PM – 2:15 PM	1570806022	Classification of Movie Success: A Comparison of Two Movie Datasets	Eman Abdelfattah, Shreehar Joshi and Ryan Osgood (Ramapo College of New Jersey, USA)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 17: SECURITY**SESSION CHAIR : OM PRAKASH VYAS (INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABD, INDIA)****SESSION TIME: 12:45 AM – 2:15 PM (DAY 3: 8th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570808648	A Survey of Intrusion Detection and Prevention Systems	Md Minhaz Chowdhury (East Stroudsburg University of Pennsylvania, USA); Tristan Erney (East Stroudsburg University, USA)
1:00 PM – 1:15 PM	1570809463	Botnets as the Modern Attack Vector	Md Minhaz Chowdhury (East Stroudsburg University of Pennsylvania, USA); Frank Antonucci (East Stroudsburg University, USA)
1:15 PM – 1:30 PM	1570809513	A Taxonomy of Privacy, Trust, and Security Breach Incidents of Internet-Of-Things Linked to F(M).A.A.N.G. Corporations	Joseph Squillace (Penn State University Schuylkill, USA)
1:30 PM – 1:45 PM	1570805408	PPIoV: A Privacy Preserving-Based Framework for IoV-Fog Environment Using Federated Learning and Blockchain	Jamal Alotaibi (8621 Canfield Dr & Wayne State University, USA); Lubna K. Alazzawi (Wayne State University, USA)
1:45 PM - 2:00 PM	1570806685	Employing Edge Computing to Enhance Self-Defense Capabilities of IoT Devices	Jack Li (Purdue University Fort Wayne, USA); Yi Hu (Northern Kentucky University, USA)
2:00 PM – 2:15 PM	1570802813	A Robust Information Hiding Scheme Using Third Decomposition Layer of Wavelet Against Universal Attacks	Ersin Elbasi (American University of the Middle East, Kuwait)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 18: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, COMPUTATIONAL INTELLIGENCE**SESSION CHAIR : CHEOL-HONG MIN (UNIVERSITY OF SAINT THOMAS, USA)****SESSION TIME: 12:45 AM – 2:15 PM (DAY 3: 8th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
12:45 PM – 1:00 PM	1570806613	Automated Determination of Mushroom Edibility Using an Augmented Dataset	Sudarshan S Chawathe (University of Maine, USA)
1:00 PM – 1:15 PM	1570804213	Facial Detection in Low Light Environments Using OpenCV	Tauheed Khan Mohd and Christopher Le (Augustana College, USA)
1:15 PM – 1:30 PM	1570810541	ADMSV - A Differential Machine Learning Based Steering Controller for Smart Vehicles	Brook Abegaz (Loyola University Chicago, USA)
1:30 PM – 1:45 PM	1570806714	Optical Features for Automated Determination of Agricultural Product Varieties	Sudarshan S Chawathe (University of Maine, USA)
1:45 PM - 2:00 PM	1570806568	Pattern Recognition Method for Detecting Engineering Errors on Technical Drawings	Rimma Dzhusupova and Richa Banotra (McDermott, The Netherlands); Jan Bosch (Chalmers University of Technology, Sweden); Helena Holmström Olsson (Malmö University, Sweden)
2:00 PM – 2:15 PM	1570805997	A Hybrid Firefly-DE Algorithm for Ridesharing Systems With Cost Savings Allocation Schemes	Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

DAY 4: 9th June 2022

TIME	NAME OF THE EVENT	PARTICIPATION LINK
8.30 AM - 9.15 AM	KEYNOTE ADDRESS BY LIQUN CHEN (PROFESSOR, UNIVERSITY OF SURREY, UK) TITLE OF TALK: USING TRUSTED COMPUTING TO SECURE THE INTERNET OF THINGS	
9.15 AM – 10.00 AM	KEYNOTE ADDRESS BY ROBERT GROSSMAN (PROFESSOR, THE UNIVERSITY OF CHICAGO,USA) TITLE OF TALK: DEPLOYING MACHINE LEARNING AND AI MODELS IN IOT	
10.00 AM - 10.45 AM	KEYNOTE ADDRESS BY SERCAN ARIK (RESEARCH SCIENTIST AND MANAGER AT GOOGLE CLOUD AI) TITLE OF TALK: EXPLAINABLE DEEP LEARNING FOR STRUCTURED DATA	

10:45 AM – 11:00 AM	BREAK
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All the timings are given in Pacific Daylight Time (PDT (UTC-07))

DAY 4: 9th June 2022

TIME	PARALLEL SESSION	PARTICIPATION LINK
11:00 AM – 12.15 PM	SECURITY, SYSTEMS AND SOFTWARE ENGINEERING	
11:00 AM – 12.15 PM	UBIQUITOUS COMPUTING, IoT PROTOCOLS, SECURITY FOR IoT	
11:00 AM – 12.15 PM	SECURITY FOR IoT, IoT ARCHITECTURES	
11:00 AM – 12.15 PM	IoT TECHNOLOGIES, APPLICATIONS OF IoT	

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

PARALLEL SESSIONS

SESSION 19: SECURITY, SYSTEMS AND SOFTWARE ENGINEERING

SESSION CHAIR: KHALED A SLHOUB (FLORIDA INSTITUTE OF TECHNOLOGY, USA)

SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 9th June 2022)

PARTICIPATION LINK:

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570798629	Analysis of Various Vulnerabilities in the Raspbian Operating System and Solutions	Tauheed Khan Mohd, Christopher Le, Alvaro Martin Grande, Aj Carmine and Jordan Thompson (Augustana College, USA)
11:15 AM – 11:30 AM	1570796903	Text Data Processing in Requirement Specifications as a Reference for Similarities Between Use Case Diagrams and Use Case Descriptions for Smart Sleeping Lamp Application Documents	Tania Angelina Hutajulu and Yudi Priyadi (Telkom University, Indonesia); Arfive Gandhi (Telkom University & Universitas Indonesia, Indonesia)
11:30 AM – 11:45 AM	1570805564	Measurement of Similarity Between Requirement Elicitation and Requirement Specification Using Text Pre-Processing in the CINEMALOKA Application	Junifar Adam Pamungkas, Yudi Priyadi and Muhammad Johan Alibasa (Telkom University, Indonesia)
11:45 AM - 12:00 PM	1570805565	Implementation of Semantic Textual Similarity Between Requirement Specification and Use Case Description Using WUP Method (Case Study: Sipjabs Application)	Elsa Jelista Sari (Telkom University & Informatics, Indonesia); Yudi Priyadi and Rosa Reska Riskiana (Telkom University, Indonesia)
12:00 PM -12:15 PM	1570809384	Mental Health Stigma and Natural Language Processing: Two Enigmas Through the Lens of a Limited Corpus	Min Hyung Lee (SIS Korea, Korea (South))

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 20: UBIQUITOUS COMPUTING, IoT PROTOCOLS, SECURITY FOR IoT**SESSION CHAIR: VIVEKANAND JHA (INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN, INDIA)****SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 9th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570806671	Automated Medicinal-Pill Dispenser With Cellular and Wi-Fi IoT Integration	Velmanickam Logeeshan (University of Moratuwa, Sri Lanka); Devminda Bandara, Ashan Dhanuka and Dulsara Kodithuwakku (General Sir John Kotelawala Defence University, Sri Lanka)
11:15 AM – 11:30 AM	1570802428	An Auditing Framework for Analyzing Fairness of Spatial-Temporal Applications of Federated Learning	Afra Mashhadi (University of Washington Bothell, USA); Reza M. Parizi (Kennesaw State University, USA); Yuting Zhan (Imperial College London, United Kingdom (Great Britain)); Ali Tabaraei (Sadjad University of Technology, Iran)
11:30 AM – 11:45 AM	1570801686	Analysis of the Primary Attacks on IoMT Internet of Medical Things Communications Protocols	Carlos José Martínez (Escuela Politécnica Nacional, Ecuador & Universitat de les Illes Balears, Spain); Sebastià Galmés (Universitat de les Illes Balears & Institut d'Investigació Sanitària Illes Balears, Spain)
11:45 AM - 12:00 PM	1570805830	Development of Low Cost Smart Cane With GPS	Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)
12:00 PM -12:15 PM	1570803439	An Evaluation of IoT DDoS Cryptojacking Malware and Mirai Botnet	Adam Borys and Abu Kamruzzaman (Baruch College/CUNY, USA); Hasnain Thakur (Brac University, Bangladesh); Joseph Brickley (New Jersey City University, USA); Md L Ali (Rider University, USA); Kutub Thakur (New Jersey City University, USA)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 21: SECURITY FOR IoT, IoT ARCHITECTURES			
SESSION CHAIR: JACK LI (PURDUE UNIVERSITY FORT WAYNE, USA)			
SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 9th June 2022)			
PARTICIPATION LINK:			
TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570804560	Factors Impacting Resilience of Internet of Things Systems in Critical Infrastructure	Miroslav Bures (Czech Technical University in Prague, Czech Republic); Pavel Blazek (University of Defence Hradec Kralove, Czech Republic); Jiri Nema and Hynek Schvach (University of Defence, Czech Republic)
11:15 AM – 11:30 AM	1570806686	A Lightweight Network Flow Based Deep Learning Approach for DDoS Attacks Detection in IoT	Kumar Saurabh (Indian Institute of Information Technology Allahabad, India); Rahamatullah Khondoker (THM University of Applied Sciences, Germany); Om Prakash Vyas (Indian Institute of Information Technology, Allahabd, India); Tanuj Kumar and Uphar Singh (IIIT Allahabad, India)
11:30 AM – 11:45 AM	1570809400	A Hard Decision, Diversity Preserving Decoder of Cyclic Hamming Codes for IoT Applications	Bere Praveen Sai (Indian Institute of Technology Hyderabad, India); Mohammed Zafar Ali Khan (Indian Institute of Technology, Hyderabad, India)
11:45 AM - 12:00 PM	1570806234	Applying Aspect-Oriented Design Methodology to Manage Time-Validity of Information in Internet-Of-Things Systems	Vyas O'Neill and Ben Soh (La Trobe University, Australia)
12:00 PM -12:15 PM	1570806696	LSTM Based Deep Learning Model for Anomaly Intrusion Detection in IoT Network	Kumar Saurabh (Indian Institute of Information Technology Allahabad, India); Rahamatullah Khondoker (THM University of Applied Sciences, Germany); Om Prakash Vyas (Indian Institute of Information Technology, Allahabd, India); Uphar Singh and Saksham Sood (IIIT Allahabad, India); P. Aditya Kumar (Iiit Allahabad, India)

All the timings are given in Pacific Daylight Time (PDT (UTC-07))

SESSION 22: IoT TECHNOLOGIES, APPLICATIONS OF IoT**SESSION CHAIR: RAZIB HAYAT KHAN (INDEPENDENT UNIVERSITY BANGLADESH, BANGLADESH)****SESSION TIME : 11:00 AM –12:15 PM (DAY 4: 9th June 2022)****PARTICIPATION LINK:**

TIME ALLOTTED	PAPER ID	PAPER NAME	AUTHORS WITH AFFILIATION & COUNTRY
11:00 AM – 11:15 AM	1570806668	IoT Based Healthcare Kit for Domestic Usage	Velmanickam Logeeshan (University of Moratuwa, Sri Lanka); Dulsara Kodithuwakku, Ashan Dhanuka and Devminda Bandara (General Sir John Kotelawala Defence University, Sri Lanka)
11:15 AM – 11:30 AM	1570809483	Enhanced Data-Driven LoRa LP-WAN Channel Model in Birmingham	AlaaAllah EISabaa, Wenyan Wu and Florimond Guéniat (Birmingham City University, United Kingdom (Great Britain)); Ward Michael (Birmingham City University, United Kingdom (Great Britain))
11:30 AM – 11:45 AM	1570805789	Sparse Mobile Crowdsensing: Components and Frameworks	Urvi Goel, Kajal Mongia, Quanta Gupta, Hansika Rajput and Vivekanand Jha (Indira Gandhi Delhi Technical University for Women, India)
11:45 AM - 12:00 PM	1570806675	Smart Three in One System for Indoor Safety Assurance	Velmanickam Logeeshan (University of Moratuwa, Sri Lanka); Ashan Dhanuka, Dulsara Kodithuwakku and Devminda Bandara (General Sir John Kotelawala Defence University, Sri Lanka)
12:00 PM -12:15 PM	1570809113	Proposed Antenna Design for IoT and 5G-WiFi Applications	Amin Al Ka'bi (Australian University - Kuwait, Kuwait)

VALEDICTORY SESSION**12:45 PM – 1:45 PM****PARTICIPATION LINK:****All the timings are given in Pacific Daylight Time (PDT (UTC-07))**