

IEEE MIT Undergraduate Research Technology Conference 2021

Poster Presentation Sessions Schedule

Sunday, October 10, 2021 (9:00AM - 11:00AM)

Poster Presentation (**Session Room A**)**Machine Learning / Artificial Intelligence (AI) Track****Session Moderator: Shulammite Lim**

TIME	Poster Title	Presenter
9:00AM	ID-71 Supervised Binary Convolutional Neural Networks with Model Stacking for Diagnosis of Fundus & Eyelid Diseases	Sirihaasa Nallamotheu (University High School)
9:10AM	ID-73 How Do Deep Neural Nets Compute Optical Flow?	Raphi Kang (Massachusetts Institute of Technology)
9:20AM	ID-78 Novel Druglikeness Classifier Using Quantum Computing	Rithvik Ganesh (Plano West Senior High School)
9:30AM	ID-86 FallWatch: A Novel Approach for Through-Wall Fall Detection in Real-Time for the Elderly	Aditya Chebrolu (Independence High School)
9:40AM	ID-90 Computational Models Recapitulate Key Signatures of Face Processing in the Fusiform Face Area	Alex Abate (Massachusetts Institute of Technology)
9:50AM	ID-94 L1-Norm Principal Component Analysis via Multiple Bit Flipping	Christie Agbalessi (Rochester Institute of Technology)
10:00AM	ID-99 Poster - The Effect Of Data Augmentation on Deep Representations	Phuc H Ngo (Beloit College)
10:10AM	ID-102 Neural Activity & Visual Stimuli: How the Brain Sees Video	Fatema Tuj Zohura (Northeastern University)
10:20AM	ID-107 FlowState - Productivity Helper	Tejas Khare (Hillsborough High School, NJ)
10:30AM	ID-11 Outfitting a Compact Steel Casting System for Mobile Foundry for Department of Defense (DoD) Rapid Equipping Force (REF)	Joshua Thomas (Worcester Polytechnic Institute)
10:40AM	ID-92 Deep Learning Models using Grad-CAM Algorithm and Augmented OCT	Andrew M Romero (CSU Chico: OIIP Lab)
10:50AM - 11:00AM	Session Open for questions for any poster presenters	

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<p style="text-align: center;">Sunday, October 10, 2021 (9:00AM - 11:00AM) Poster Presentation (Session Room B) Machine Learning / Artificial Intelligence (AI); Innovation Research; Biological and Biomedical Engineering (BioEECS); Session Moderator: Qiong Huang</p>		
TIME	Poster Title	Presenter
9:00AM	ID-2 Developing a modified version of Generative Adversarial Network to predict the potential anti-viral drug of COVID-19	Md.Sadek Hossain Asif (Notre Dame College Dhaka)
9:10AM	ID-109 Latent Space Modeling of Heterochromatin Protein 1 (HP1) Evolution	Abigail M Adams (University of Wisconsin - Stevens Point)
9:20AM	ID-111 Sentiment Analysis of COVID-19 Social Distancing Tweets	Diwen Zhu (University of Waterloo)
9:30AM	ID-27 Breakthroughs in Honeybee Health: Continuous-Release Mist Diffusion of Thymol-Based Essential Oils	Kaitlyn N Culbert (Toms River High School North)
9:40AM	ID-70 Resumary: User-Centered Design and Development of a Mobile App to Build Resume	Sophia L Zhou (Massachusetts Academy of Math and Science at WPI)
9:50AM	ID-87 Optimizing Naval Power Systems for Transient and Steady-State Conditions	Davis Hobbs (University of South Carolina)
10:00AM	ID-88 The Implications of State Aggregation for Markov Decision Process Models with Medical Applications	Madeleine M Pollack (Georgia Institute of Technology)
10:10AM	ID-96 A Tool to Alleviate Perceived Stress in Adolescents	Ashika Srivastava (Chamblee High School)
10:20AM	ID-101 Optimized Route Planning for the Visually Impaired	Allan Zhang (Ridge High School)
10:30AM	ID-113 Improving Control of Upper Extremity Orthoses with Limb Trajectory Prediction	Mustafa Mohammed (University of Illinois at Chicago)
10:40AM - 11:00AM	Session Open for questions for any poster presenters	

Poster Presentation (Session Room B)

IEEE MIT Undergraduate Research Technology Conference 2021
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<p style="text-align: center;">Sunday, October 10, 2021 (9:00AM - 11:00AM) Poster Presentation (Session Room C) Biological and Biomedical Engineering (BioEECS); Circuits, Materials, and Nanotechnologies; Robotics and Controls; Security and Communications; Space Application and Technologies Session Moderator: Chelsea Chen</p>		
TIME	Poster Title	Presenter
9:00AM	ID-30 LungStat: Improving Lung Cancer Diagnostic Accuracy through Computer Vision	Aditya Rai (Plano West Senior High School); Kaustubh K Sonawane (Plano West Senior High School)
9:10AM	ID-89 ANALYZING COX PROPORTIONAL HAZARDS ASSUMPTION VIOLATIONS IN BREAST CANCER PATIENTS USING TUMOUR mRNA ABUNDANCE DATA	Doyoon Kim (Cleveland High School)
9:20AM	ID-93 Effect of Stroke Deviation on the Aerodynamic Performance of the Smallest Flying Insects	Hrithik Aghav (The University of Arizona)
9:30AM	ID-81 Refocusing Analog Electronic Pedagogy to Emphasize Practical Skill Development within a PSoC Environment	Xavier A Smith (Massachusetts Institute of Technology)
9:40AM	ID-82 A Dry Transfer Technique for Chemical Sensors Based on Two-Dimensional Materials	Melbourne Tang (Massachusetts Institute of Technology)
9:50AM	ID-103 Characterization of large-area superconducting microwires for single-photon detection	Ekaterina Y Arutyunova (Wellesley College)
10:00AM	ID-74 Efficient Ground Vehicle Navigation Using Aerial Images	Jehan Shalabi (Massachusetts Institute of Technology)
10:10AM	ID-105 Outdoor-to-Indoor 28 GHz mmWave Measurements in the COSMOS Testbed Deployment Area	Sienna Brent; Gulnur Avci (Columbia University); Jared Moser (Stuyvesant High School)
10:20AM	ID-97 Investigating the Relationship between Urbanization and Mosquito Hotspots	Ashika Srivastava (Chamblee High School); Uma Desai (El Segundo High School)
10:30AM	ID-75 A Game Theoretical Authentication Approach Towards Trustworthy Outsourced Deep Neural Networks	Louay Ahmad (Montclair State University)
10:40AM	ID-100 Fast and Secure Friend Recommendations in Outsourced Online Social Networks	Bharath K. Samanthula (Montclair State University)
10:50AM - 11:00AM	Session Open for questions for any poster presenters	

Poster Presentation (Session Room C)