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 Nallamothu** (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**	

Poster Presentation (Session Room A)

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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	

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)

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		
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 - 11:00AM	**Session Open for questions for any poster presenters**	

Poster Presentation (Session Room C)