

IEEE MIT Undergraduate Research Technology Conference 2022
Lightning Talks Schedule



Sunday, October 2, 2022
Stata Center 32-123 (Lightning Talks Schedule)
Session Chair: Bruce Hecht

TIME	TITLE	AUTHORS / SPEAKERS	Technical Track
11:30AM	ID-3 PAPER (VIRTUAL): 10min Eye-Net: An Interpretable Machine Learning Ensemble for Feature Engineering, Classification, and Lesion Localization of Diabetic Retinopathy	Justin Liu (Palos Verdes Peninsula High School)	Machine Learning / Artificial Intelligence (AI)
11:40AM	ID-4 PAPER (VIRTUAL): 10min A Natural Language Processing and Machine Learning-Based Framework to Automatically Identify Cyberbullying and Hate Speech in Real-Time	Samyak Shrimali (Jesuit High School)	Machine Learning / Artificial Intelligence (AI)
11:50AM	ID-156 (VIRTUAL): Utilizing Machine Learning techniques to explain the role of Primary Cilia in Aging and Alzheimer's Disease	Aneesh Mazumder (University of North Texas)	Biological and Biomedical Engineering (BioEECS)
11:55AM	ID-71: Application of Tesla Inc. Components to Develop Peer-to-Peer Microgrids for the Mitigation of Energy Poverty in Democratic Republic of Congo	Andrea Miramontes Serrano (Cornell University)	Circuits, Materials, and Nanotechnologies
12:00PM	ID-90: Harnessing Instabilities during Frontal Polymerization for Patterning	Aarav Seth (University of Illinois)	Circuits, Materials, and Nanotechnologies
12:05PM	ID-119: Analyzing the Thermal Capturing Properties and Performance of PCM in Automobile Roofs for Interior Temperature Regulation	Pranav S Manikonda (Manalapan High School)	Circuits, Materials, and Nanotechnologies
12:10PM	ID-127: Melanoma Detection and Classification using Machine Learning Algorithms	Pranav S Manikonda (Manalapan High School)	Machine Learning / Artificial Intelligence (AI)
12:15PM	ID-132: AI-WAMP: An Industrial Workplace Alerting and Monitoring Platform to Prevent Workplace Injury and Accidents	Sanjay Adhikesaven (Foothill High School)	Machine Learning / Artificial Intelligence (AI)
12:20PM	ID-135: Genetic Screen for Age Reversal in Neurons	Carol Magalhaes (Church Lab)	Biological and Biomedical Engineering (BioEECS)
12:25PM	ID-139: At the Forefront of a Scientific Breakthrough - Experiments and Paradoxes	Alexei Korolev (Morris County School of Technology)	Innovation Research