MSEF Category Awards by Place (revised 4/15/2022)

Award	CertificateName School	Grade Title Teacher
rand		
М	lichelle Hua Cranbrook Kingswood Uppe	11 Consistency-based Self-Supervised Neural Network for 3D Motion Reconstruction School Stephanie Kokoszka
Κι	ush Parikh with Timothy Mathew Troy High School	10 COVision: CNN for Classification of COVID-19 and Non-Viral Pneumonia Using CTs Rebecca Brewer
irst Place		
M	largaret Yang Cranbrook Kingswood Uppe	12 Engineering Compositionally Uniform Whole-Cell Biocatalyst for Biofuel School Stephanie Kokoszka
Do	onald Liveoak Allen Park Senior High	12 Schrödinger Bridges on Discrete Domains Larry Dunlap
Second Place	2	
M	1ikul Saravanan Cranbrook Kingswood Uppe	11 Novel Multipurpose Air Handling Robot with Al-Based Anomaly Detection School Stephanie Kokoszka
Υι	un Du Cranbrook Kingswood Uppe	11 Angular Momentum-Driven Circular Rotatable Ocean Robot School Stephanie Kokoszka
Vi	ikram Goddla Detroit Country Day Upper	10 Al Solution for Effective Treatment Planning for Brain Tumor Patients Patricia Hanlan
O	wen Dong Rochester Adams High Scho	11 Arsenic toxicity, accumulation, and biotransformation in Agaricus bisporus Eric Lohr
Gl	len Warren Dearborn Center for Math, S	12 Practical Gesture Recognition for Computer Control sience & Technology Jennifer Gorsline
Third Place		
Ki	iera Washington Davis Aerospace Technical H	11 Daphnia magna in Surface Runoffs gh School Sharon Holloway
Br	rian Zhang Northville High School	9 Mental Stress Detection in Social Media - A Machine Learning Approach Gabriel Pak

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Award CertificateName (Grade Title Teacher			
Sonnet Xu Troy High School	11 Drought Affects Mangrove Recovery Patterns Following Hurricane Irma Rebecca Brewer			
Rahul Barpanda Detroit Country Day Upper	12 Tranilast Mitigates ER Stress-induced RPE Cell Dysfunction in AMD Karen Lamb			
Jiawei Chen Cranbrook Kingswood Upper Scho	11 Robotic Tuna Fish and Study of Improving Underwater Locomotion ol Stephanie Kokoszka			
Connor Kalkanis Detroit Country Day Upper	10 A Novel Silver Bullet to Kill Cancer Cells Lara Mcmillan			
Fourth Place				
Zijie He Cranbrook Kingswood Upper Scho	11 A New Method of Footprint Identifier Based on Deep Learning ol Stephanie Kokoszka			
Dillan Lau Detroit Country Day Upper	12 Pneumonia Detection through Advanced Machine Learning Rami Baroodi			
Trinity Chen Detroit Country Day Upper	10 Early Diagnosis of COPD Using Analysis of Single-cell RNA Sequencing Marc Fazio			
Diya Ramesh International Academy	11 Urine-Based Breast Cancer Detection Using miRNA-Targeting Molecular Beacons Megan Phillips			
Nicholas Frieler Detroit Country Day Upper	11 The Use of Collision-Induced Dissociation in Differentiating Isomers Laura Luckins			
Raghav Subramaniam with Krish Desai International Academy-East Camp	10 Employing Partial Augmented Reality and Chorded Keyboard Input Methods to Devel us Jackie Toepel			
Isabella Cook Detroit Country Day Upper	11 Covid-Driven Reliance on Digital Communication and Teens John Dougherty			
Rohit Mahesh Salem High School	9 Can your shoe detect concussion? Marcia Lizzio			
Sanjana Duttagupta Northville High School	10 RevealTheIngredient: A Novel Ingredient-Label Computer Vision Application Karin Nelson			

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