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Spatial-temporal Dynamics for Predictive Multiscale Models of Multi-cellular Circuit	North Carolina A&T State University	Samuel Oliveira	smdoliveira@ncat.edu	Christopher Bettinger	BTO
Precision in Miniature: Revolutionizing MPS with Digital Acoustofluidics and Nanoscale 3D Printing	University of Rhode Island	Yang Lin	yanglin@uri.edu	Adam Willis	BTO
Spatially resolved, non-genetic optoelectronic modulation of neuronal activities with a monolithic photoelectrode	Ohio State University	Jinghua Li	li.11017@osu.edu	Joeanna Arthur	BTO
Targeting allosteric sites for seek and destroy countermeasures for opioid poisoning	University of California San Francisco	Aashish Manglik	Aashish.manglik@ucsf.edu	Michael Feasel	BTO
Rapid Identification of Viruses and Ligands (RIVAL)	Yale University	Craig Wilen	craig.wilen@yale.edu	Shannon Greene	BTO
Embodied Structural Computing for Real-Time Stiffness Adaptation	Stanford University	Maria Sakovsky	sakovsky@stanford.edu	Andrew Detor	DSO
EMI-resilient nonvolatile memory using oxygen ion devices	University of Michigan	Yiyang Li	yiyangli@umich.edu	Keith Whitener	DSO
Osmotic Signalers for Functional Materials	Rochester Institute of Technology	Jairo Alberto Diaz Amaya	jadche@rit.edu	Keith Whitener	DSO
Characterizing and Mitigating Adversarial Impacts on Multiagent Reinforcement Learning	Harvard University	Stephanie Gil	<a href="mailto:sgil@seas.harvard.edu">sgil@seas.harvard.edu</a>	Nathaniel Bastian	I2O
Coherent Levitation of Macroscopic Sensors	Northwestern University	Mahdi Hosseini	mh@northwestern.edu	Sunil Bhawe	DSO
Squid-Inspired Nozzles for Enhanced Efficiency and Thrust in Rotary Propulsors	Georgia Tech Research Corporation	Saad Bhamla	saadb@chbe.gatech.edu	Susan Swithenbank	DSO
Converting underwater noise pollution into electricity: Acoustic sensors to make informed decisions for unmanned underwater vehicles	University of Kentucky	Alexandra Paterson	alexandra.paterson@uky.edu	Susan Swithenbank	DSO
Authenticity Markers in Artist-Robot Interaction	University of Michigan	Patricia Alves-Oliveira	robopati@umich.edu	Thomas Schenkel	DSO

Theoretical and Algorithmic Foundation of Interpretable Reinforcement Learning for Intelligent Computation and Modeling	University of Maryland College Park	Haizhao Yang	hzyang@umd.edu	Yannis Kevrekidis	DSO
Deep Learning for Discovering Optimal, Synthesizable Inorganic Porous Materials	University of Massachusetts Amherst	Peng Bai	pengbai@umass.edu	Yannis Kevrekidis	DSO
Decentralized Sequential Decision Making in the Data-Limited Regime: A Self-Supervised Pretrained Foundation Model Approach	Ohio State University	Jia (Kevin) Liu	liu.1736@osu.edu	Alvaro Velasquez	I2O
Decentralized Online Parameter-Efficient Fine-Tuning of Compressed Models	Cornell University	Christopher De Sa	cmd353@cornell.edu	Alvaro Velasquez	I2O
Active Adaptation for Decentralized Foundation Models	University of Wisconsin	Frederic Sala	fsala@wisc.edu	Alvaro Velasquez	I2O
Grounding LLMs with Physical Laws	University of California, San Diego	Rose Yu	<a href="mailto:roseyu@ucsd.edu">roseyu@ucsd.edu</a>	Erica Briscoe	I2O
Language and Hardware Adaptive Representations and Techniques for Compiling Heterogeneous Workloads	University of Illinois at Urbana Champaign	Thirimadura Charith Mendis	charithm@illinois.edu	Howard Shrobe	I2O
A Fast Design Space Exploration Framework and Compiler for Heterogeneous Systems with Neural Network Accelerators	Stanford University	Priyanka Raina	praina@stanford.edu	Howard Shrobe	I2O
Discovering and Controlling Emergent Symbolic Mechanisms in Neural Networks	Brown University	Ellie Pavlick	ellie_pavlick@brown.edu	Matthew Marge	I2O
Towards Adaptable and Socially Intelligent Reinforcement Learning	University of Missouri	Mushuang Liu	<a href="mailto:ml529@missouri.edu">ml529@missouri.edu</a>	Victoria Romero	I2O
Cascaded Thin-Film Lithium Niobate Photonic Circuits Create Entangled Photon Triplets	California Institute of Technology	Scott Cushing	scushing@caltech.edu	Justin Cohen	MTO

Metalens-Imaged Optical Coupler Arrays	University of Massachusetts, Amherst	Amir Arbabi	arbabi@umass.edu	Anna Tauke-Pedretti	MTO
End-to-End Modeling and Mitigation of Fault Injection Attacks	Ohio State University	Carter Yagemann	yagemann.1@osu.edu	Lok Yan	MTO
University of Minnesota, Twin Cities, Ultralightweight Nanophotonic Radiators for Adaptive and High-Power Heat Rejection	University of Minnesota, Twin Cities	Ognjen Ilic	<a href="mailto:ilic@umn.edu">ilic@umn.edu</a>	Yogendra Joshi	MTO
Formable Ordered Microcomposite Energetics	Rutgers University	Jonathan Singer	jonathan.singer@rutgers.edu	Hunter Martin	STO
View-Obstructed Delivery of Lunar Power by Optomechanically Guided Beams	University of Michigan	Christopher Limbach	limbach@umich.edu	Michael Nayak	STO
Gas-surface scattering dynamics in very low Earth orbit	University of Kentucky	Savio Poovathingal	saviopoovathingal@uky.edu	Sarah Popkin	TTO
Data Driven Engineering for VLEO Spacecraft Aerodynamic Performance Enhancement	Rutgers University	Steven Berg	steven.berg@rutgers.edu	Sarah Popkin	TTO