

**PROGRAM MANAGER:** Ted Senator

**DATE:** Wednesday, October 20, 2021

**TIME:** 3:15pm – 5:30pm

**ROOM NAME:** Ben Epstein

## DESCRIPTION

DARPA's Lifelong Learning Machines (L2M) Program is now in Phase 2. This phase focuses on the development of practical systems that address complete lifelong learning solutions covering continuous learning, transferability and mission life sustainability as applied to various domains. The workshop will be an opportunity for the L2M Phase 2 Systems Group teams to describe their L2M systems and targeted applications, and enable attendees to better understand how to make use of outcomes from the program, transitioning L2M program results to deployed self-learning systems.

## AGENDA

3:15 to 3:20pm	<b>Overview of the L2M Program</b> Ted Senator, DARPA, L2M Program Manager
3:20 to 3:30pm	<b>Autonomous Navigation and Classification</b> Mario Aguilar-Simon, Teledyne Scientific, Fellow
3:30 to 3:40pm	<b>Autonomous Navigation and Game Play Domains</b> Praveen Pilly, HRL, Senior Research Scientist
3:40 to 3:50pm	<b>Lifelong Learning at the Edge</b> Angel Yanguas-Gil, Argonne National Labs, Principal Materials Scientist
3:50 to 4:00pm	<b>The Eigentask framework</b> Aswin Nadamuni Raghavan, SRI International, Senior Computer Scientist
4:00 to 4:15pm	<b>Q&amp;A</b>
<b>Afternoon Break: 4:15pm-4:30pm</b>	
4:30 to 4:40pm	<b>Overcoming Catastrophic Forgetting with Meta-Learned Neuromodulation</b> Nick Cheney, Univ. of Vermont, Assistant Professor
4:40 to 4:50pm	<b>A NeuRoBot That Learns Locomotion Online</b> Francisco Valero-Cuevas, Univ. of Southern California, Professor
4:50 to 5:00pm	<b>L2M Hardware Implementations</b> Dhireesha Kudithpudi, Univ of Texas, San Antonio, Professor
5:00 to 5:10pm	<b>Lifelong Learning through Random Forests</b> Josh Vogelstein, Johns Hopkins University, Professor
5:10 to 5:30pm	<b>Discussion and Q&amp;A</b>
<b>Workshops Conclude at 5:30pm</b>	

## QUESTIONS

Please contact Ben Epstein ([benjamin.epstein.ctr@arpa.mil](mailto:benjamin.epstein.ctr@arpa.mil)) or [ERI-Summit@arpa.mil](mailto:ERI-Summit@arpa.mil) for more information on this workshop.