



PennState
College of Engineering

**Systems, Controls, and Robotics
Seminar Series**



Science of Autonomy

Dr. Marc Steinberg

Program Officer, Code 351

Science of Autonomy, Office of Naval Research
Seminar: Thursday, Mar 30, 10 AM, 125 Reber

ABSTRACT

Science of Autonomy focuses on multidisciplinary research topics in autonomy that explore interconnections between fields such as artificial intelligence, machine learning, control theory, human factors, biology, cognitive science, psychology, economics, operations research, applied mathematics, oceanography, physics and neuroscience. The focus of the program is on new methods that are mathematically rigorous and/or grounded in general scientific principles.

BIOGRAPHY

Marc Steinberg has been the Science of Autonomy Program Officer at the Office of Naval Research (ONR) from the creation of that program in 2009, and is now also a member of the team that manages the Science of Artificial Intelligence program. Prior to coming to ONR, he worked in multiple positions within the naval laboratory system for 20 years, and reached the level of technical fellow. As a laboratory researcher, he worked on basic and applied research projects exploring neural network and knowledge-based forms of artificial intelligence, autonomous control, vehicle management systems, prognostics and health management, aviation safety, and robust, adaptive, nonlinear, and reconfigurable control. He has received a number of professional society awards for his contributions including the Derek George Astridge Award for Contribution to Aerospace Safety (British Institution of Mechanical Engineers), the Dr. George Rappaport Best Paper Award (IEEE), the 2nd Best Paper of Conference Award for AIAA Guidance, Navigation, and Control Conference, and has twice-won Pathfinder Best Paper awards for AUVSI Unmanned Systems North America.