

NAVAL SCIENCE AND TECHNOLOGY

ENGR 3109: Navy STEM Professional Development Seminar

Wednesday, October 31, 2018

5:00 pm to 6:00 pm

URI, Avedisian Hall 170 ~ Live Streaming to UCONN

“PLANNING & OPTIMIZATION FOR THE ONLINE MANAGEMENT OF UNMANNED SYSTEMS”


DESCRIPTION: Tom will describe some of the work that goes into developing new ways of managing the use of systems comprised of multiple component systems. In the Navy and particularly at NUWC, this type of engineering falls under the heading of Systems Engineering or Operations Research; and he will explain how the people doing this work come from a variety of engineering backgrounds. Tom will show how systems-level optimization problems can be formulated and solved in order to create algorithms that provide this type of multi-agent control. Examples will be presented in the areas of unmanned vehicle path planning, managing group coordination, and determining distributed sensor network configurations. He will conclude with some thoughts on the future of this area of engineering.


TOM WETTERGREN, NAVY SR. TECHNOLOGIST FOR OPERATION & INFORMATION SCIENCE


NAVAL UNDERSEA WARFARE CENTER (NUWC), NEWPORT, RI

Tom Wettergren has served as the US Navy's Senior Technologist (ST) for Operational and Information Science, located at the Naval Undersea Warfare Center (NUWC), since 2010. Prior to that position, he had worked in a number of research positions at various departments throughout the center, working on systems-level problems in developing new planning, modeling, optimization, and control approaches to various problems in the torpedo, sonar, and combat systems application areas. His research results have been published in a variety of computing, mathematics, and engineering journals. He has been at NUWC since 1995, coming there shortly after receiving his Ph.D. from Rensselaer Polytechnic Institute. In addition to his role at NUWC, he also is an adjunct professor in ISE at URI.

Upcoming Distinguished Seminars

 **GREGORY JOHNSON**
Program Manager
ALION SCIENCE &
TECHNOLOGY
November 7th @ 5pm
UCONN – STRS WW16

 **ERIK BRINE**
Defense Science &
Technology Program
Examiner
OFFICE OF MANAGEMENT
& BUDGET, NAVAL WAR
COLLEGE
November 14th @ 5pm
URI – AVD Hall 170

 **PIERRE CORRIVEAU & SCOTT ALLISON**
Chief Undersea
Technologist, Director
of Engineering for
Seapower Business
RAYTHEON
NOVEMBER 28TH @ 5PM
URI – AVD HALL 170

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