

UDRC Themed Meeting on Autonomous Systems

As part of the UDRC phase III, a themed meeting on Autonomous Systems will be held on Wednesday 24th November 2021. This will be an in person event with the option to attend online. This event is intended for academic researchers, industrial partners and Dstl staff to learn about and discuss current trends in Autonomous Systems. The program will consist of a series of talks from academia and defence industry.

Timings: Wednesday 24th November 2021

Location: James Watt Centre, Craig Room, Heriot-Watt University or online

Registration: [Register using this link](#)

Organiser: Dr Sen Wang (s.wang@hw.ac.uk)

Time	Topic	Name
09:30 - 10:45	Session 1 – Chair – Yun Wu, Heriot-Watt University	
09:30-09:55	3D Mapping and Autonomous Navigation of Legged Robots	Maurice Fallon/ Marco Camurri University of Oxford
09:55-10:20	Scratching the Surface: Sensor Driven Perception and Action	Andrew Wallace Heriot-Watt University
10:20-10:45	Verification and Validation of Deep Learning Models in Autonomous Systems	Xiaowei Huang University of Liverpool
10:45 – 11:10	Break	
11:10 – 12:25	Session 2 – Chair – Mengwei Sun, University of Edinburgh	
11:10-11:35	Autonomous Search of Atmospheric CBR Release using Mobile Robotics: An Information Theoretic Framework	Cunjia Liu Loughborough University
11:35-12:00	Moving toward Shared Autonomy in Maritime Robotics	Scott Reed SeeByte Ltd
12:00-12:25	Marine Autonomous and Robotic Systems	Maaten Furlong/Alex Phillips National Oceanography Centre
12:25 – 13:30	Lunch Break	
13:30 – 15:00	Session 3 – Chair Nikolaos Dionelis, University of Edinburgh	
13:30 – 13:55	AI in the Wild	Gary Matson MBDA Systems
13:55 – 14:20	Extend Robotics AMAS: VR based volumetric telepresence and teleoperation interface	Chang Liu ExtendRobotics
14:20 – 14:45	T-B PHASE Project: Thales Bristol Partnership in Hybrid Autonomous Systems Engineering	David Harvey Thales
14:45 – 15:10	Break	
15:10 – 16:10	Session 4 – Chair Henry Gouk, University of Edinburgh	
15:10 – 15:35	Vision and Autonomous Navigation of Micro Air Vehicles	Stephan Michael Weiss University of Klagenfurt
15:35 – 16:00	Decision Making, Planning and Trustworthy Autonomous Systems	Subramanian Ramamoorthy University of Edinburgh
16:00 – 16:10	Closing remarks	

The University Defence Research Collaboration in Signal Processing in the information Age is funded by EPSRC and Dstl.