

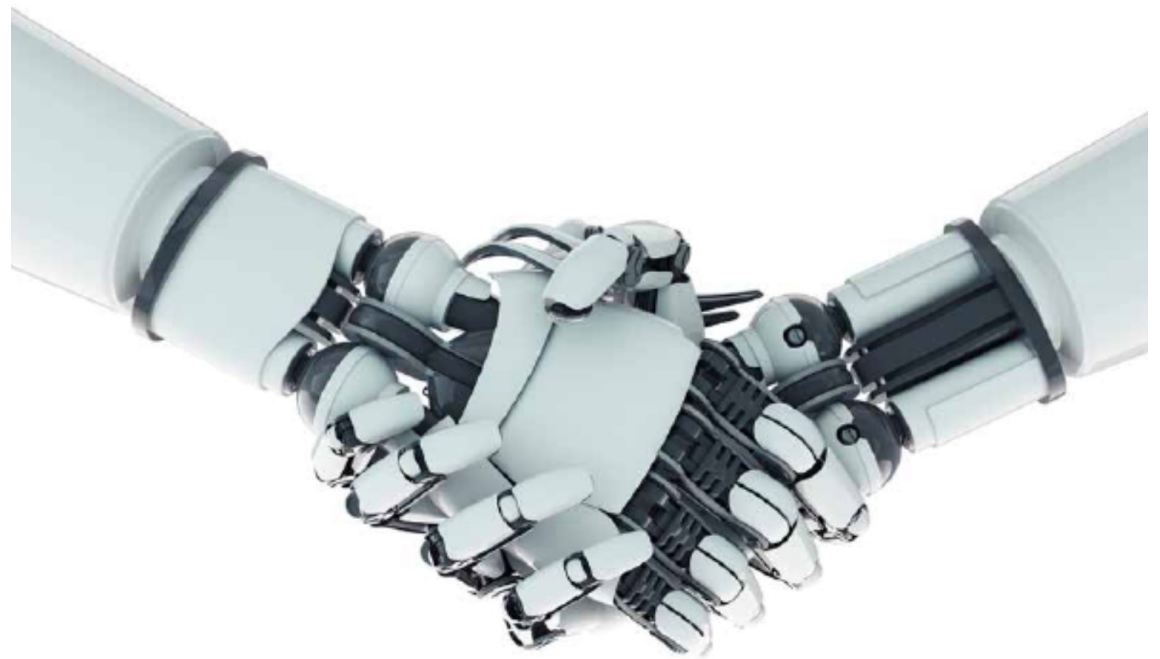
## Theme Day in Robotics and Autonomous Systems: Project Selection

A list of funded grants with relevance to RAS was used as a starting point for selecting participants for the Theme Day. All grants of relevance that had been active or funded in the period April 2012 – Oct 2016 were initially included.

The portfolio managers with relevant expertise were then asked to review the list highlighting any proposals that were thought to have insufficient relevance for the purpose of the Theme Day, adding any that were missing. This list was also reviewed with the panel chair, Professor David Hogg.

As well as identifying grants that would give a fair and honest representation of the RAS portfolio at EPSRC, it was also necessary to consider what would be a manageable number of grants for the panel to review within the Theme Day. All grants that have only been active since January 2016 were excluded from the process as it was judged that their outputs would be limited at the time of the Theme Day in January 2017. Although First Grants form an important part of EPSRC's RAS portfolio, they were not included due to space and time considerations. Capital awards were also excluded to focus on research and training.

As a result of this process, the following projects were presented to the Theme Day panel for evaluation as to their Quality, Impact, and National Importance.



Grant Number	Project Title	Value (£)	Institution	PI	Speaker (if not PI)
EP/J011770/1	<a href="#">Reconfigurable Autonomy</a>	419,422	University of Liverpool	Professor Michael Fisher	
EP/L024845/1	<a href="#">Verifiable Autonomy</a>	640,791			
EP/K006193/1	<a href="#">Trustworthy Robotic Assistants</a>	378,892			
EP/M27309/1	<a href="#">Network on the Verification and Validation of Autonomous Systems</a>	107,725			
EP/F031394/1	<a href="#">Creating Physical Structure from Disarray</a>	355,363	King's College London	Professor Jian Dai	
EP/J01205X/1	<a href="#">RIVERAS: Robust Integrated Verification of Autonomous Systems</a>	817,020	University of Bristol	Dr Kerstin Eder	
EP/H019081/1	<a href="#">Sandpit: Cyberplasm</a>	298,311	Newcastle University	Dr Daniel Frankel	
EP/M015777/1	<a href="#">ALOOF: Autonomous Learning of the Meaning of Objects</a>	340,806	University of Birmingham	Dr Nick Hawes	
EP/G036748/1	<a href="#">Basic Technology Nanorobotics: Transfer to applications, new science and industry</a>	727,628	University of Sheffield	Professor Beverley Inkson	
EP/J012521/1	<a href="#">Human-Autonomous Systems Collective Capability (HASCC)</a>	669,334	University of Bath	Professor Peter Johnson	
EP/H012338/1	<a href="#">Topology-based Motion Synthesis</a>	458,934	University of Edinburgh	Dr Taku Komura	
EP/L00416X/1	<a href="#">Digital Personhood: Being There: Humans and Robots in Public Spaces (HARPS)</a>	2,044,337	University of Exeter	Professor Mark Levine	
EP/J012149/1	<a href="#">Providing Autonomous Capabilities for Evolving SCADA (PACES)</a>	623,033	Queen's University of Belfast	Professor Weiru Liu	
EP/J019534/1	<a href="#">Green Brain: Computational Modelling of the Honeybee Brain</a>	660,561	University of Sheffield	Professor James Marshall	
EP/J011991/1	<a href="#">Machine Learning and Adaptation of Domain Models to Support Real-Time Planning in Autonomous Systems</a>	366,420	University of Huddersfield	Professor Thomas McCluskey	
EP/M013510/1	<a href="#">Developmental algorithms for robotics: Understanding the world of objects, interactions and tools</a>	559,077	Aberystwyth University	Professor Qiang Shen	
EP/J011894/2	<a href="#">Distributed sensing, control and decision making in multiagent autonomous systems</a>	1,262,837	University of Sheffield	Professor Sandor Veres	
EP/M008479/1	<a href="#">Exploiting invisible cues for robot navigation in complex natural environments</a>	558,417	University of Edinburgh	Professor Barbara Webb	Dr Michael Mangan
EP/J012017/1	<a href="#">Intelligent Workspace Acquisition, Comprehension and Exploitation for Mobile Autonomy in Infrastructure Denied Environments</a>	1,093,659	University of Oxford	Professor Paul Newman	Professor Ingmar Posner

EP/I005021/1	<a href="#">Life-Long Infrastructure Free Robot Navigation</a>	1,655,490	University of Oxford	Professor Paul Newman	
EP/M019918/1	<a href="#">Mobile Robotics: Enabling a Pervasive Technology of the Future</a>	4,991,610			
EP/I011587/1	<a href="#">Human-agent collectives: from foundations to applications (ORCHID)</a>	5,537,003	University of Southampton	Professor Nick Jennings	Professor Steve Roberts
EP/J004561/1	<a href="#">BABEL</a>	1,202,384	University of Plymouth	Professor A. Cangelosi	Dr. Thomas Wennekers
EP/G063052/1	<a href="#">Intelligent Robots in Science and Society</a>	112,078	University of the West of England	Professor Alan Winfield	
EP/F022824/1	<a href="#">Multi-link soft polymer micro-actuators and sensors</a>	387,722	University of Bristol	Professor Jonathan Rossiter	
EP/M020460/1	<a href="#">Soft robotic technologies for next-generation bio-integrative medical devices</a>	1,046,902			
EP/M026388/1	<a href="#">Wearable Soft Robotics for Independent Living</a>	2,026,737			
EP/M025756/1	<a href="#">A Calculus for Software Engineering of Mobile and Autonomous Robots</a>	1,766,824	University of York	Professor ALC Cavalcanti	Dr Jonathan Timmis
EP/L020688/1	<a href="#">Personalised Stent Graft Manufacturing for Endovascular Intervention</a>	1,249,592	Imperial College London	Professor Guang-Zhong Yang	Dr Su-Lin Lee
EP/M002527/1	<a href="#">Engineering Fellowships for Growth: Printable Tactile Skin</a>	1,655,490	University of Glasgow	Dr Ravinder Dahiya	
EP/N021703/1	<a href="#">I-DRESS</a>	305,523	Imperial College London	Dr Sanja Dogramadzi	
EP/J012084/1	<a href="#">Scrutable Autonomous Systems</a>	853,797	University of Aberdeen	Dr Wamberto Vasconcelos	Dr Nir Oren
EP/J011525/1	<a href="#">Towards More Autonomy for Unmanned Vehicles: Situational Awareness and Decision Making under Uncertainty</a>	1,006,188	Loughborough University	Professor Wen-Hua Chen	
EP/N012380/1	<a href="#">TASCC: The Cooperative Car</a>	1,656,843	University of Warwick	Dr Nathan Griffiths	
EP/N011899/1	<a href="#">TASCC: Human Interaction: Designing Autonomy in Vehicles (HI:DAV)</a>	1,782,704	University of Southampton	Professor Neville Stanton	Dr. Kirsten Revell
EP/N012372/1	<a href="#">TASCC: Pervasive low-TeraHz and Video Sensing for Car Autonomy and Driver Assistance (PATH CAD)</a>	852,950	University of Birmingham	Dr Gashinova	Professor Andrew Wallace
EP/I012923/1	<a href="#">An Intelligent Integrated Navigation and Autopilot System for Uninhabited Surface Vehicles</a>	354,231	University of Plymouth	Professor Robert Sutton	Dr Sanjay Sharma
EP/J012211/1	<a href="#">Sustained Autonomy through Coupled Plan-based Control and World Modelling with Uncertainty</a>	237,002	King's College London	Professor Derek Long	
EP/J012343/1	<a href="#">Novel Sensing Networks for Intelligent Monitoring (Newton)</a>	1,175,282	Newcastle University	Professor Gui Yun Tian	

EP/I028757/1	<a href="#">REINS</a>	455,967	Sheffield Hallam	Professor JSJ Penders	
EP/K018205/1	<a href="#">Evolvable Assembly Systems</a>	2,151,284	University of Nottingham	Professor Svetan Ratchev	Dr Jack Chaplin
EP/I033467/1	EPSRC Centre for Innovative Manufacturing in Intelligent Automation	5,871,323	Loughborough University	Professor Mike Jackson	
EP/L014998/1	EPSRC Centre for Doctoral Training in Embedded Intelligence	3,567,115	Loughborough University	Professor Paul Conway	Dr. Carmen Torres-Sanchez
EP/L016834/1	EPSRC Centre for Doctoral Training in Robotics and Autonomous Systems (RAS) in Edinburgh	5,741,636	Heriot-Watt University / University of Edinburgh	Professor David Lane	
EP/L015897/1	EPSRC Centre for Doctoral Training in Autonomous Intelligent Machines and Systems (AIMS)	4,548,905	University of Oxford	Professor Niki Trigoni	
EP/L015293/1	EPSRC Centre for Doctoral Training in Future Autonomous and Robotic Systems – FARSCOPE	4,930,858	Bristol Robotics Lab	Dr Arthur Richards	
EP/M012522/1	UK-RAS Network	498,317	Imperial College London	Professor Guang-Zhong Yang	Dr Robert Merrifield Marianne Knight