



7th IEEE UK & Ireland RAS Conference (RAS 2024) 21st February & 22nd February 2024

SPONSORSHIP - We would like to thank



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Universal Robots is an innovative robotics company of over 1,000 employees united behind a common vision – to create a world

where people work with robots, not like robots.

Since the sale of our first collaborative robot in 2008 our technology, along with that of our partners, has been changing the way work is done across the world.

We are proud of our role in making businesses more human centric, resilient and sustainable. Every day we see collaborative robots (cobots) helping businesses to overcome labour and skills shortages and creating better working environments for employees.

Our approach to automation and our collaborative platform is creating a future where any company, anywhere in the world, will be able to automate.



We're technology pioneers, using AI, Robotics, Data Science, Cloud & more to disrupt the online grocery industry

Ocado Technology is powering the future of online retail through disruptive innovation. Join us to create world-class systems at the intersection of robotics and IoT, cloud platforms, big data, machine learning, software development, and beyond.

Please scroll down to view the programme

PROGRAMME

General Chairs

Professor Hongmei He, IEEE UK RAS chapter
Professor Sanja Dogramadzi, University of Sheffield
Professor Alessandro di Nuovo, Sheffield Hallam University
Prof Paul Cunningham, Section Chair

Programme & Poster Chairs ([information regarding the poster session can be found HERE](#))

Dr Guowu Wei, University of Salford
Dr Samuele Vinanzi, Sheffield Hallam University
Dr Shuhei Miyashita, University of Sheffield

Session Chairs

Soft & Microrobotics: Dr Dana Damian, University of Sheffield
Human-Robot Interaction, Social & Ethical Challenges: Prof Praminda Caleb-Solly, University of Nottingham
Autonomy, Trust & Verification: Prof Lyudmila Mihaylova, University of Sheffield
Medical Robotics & Autonomous Systems: Dr Lin Cao, University of Sheffield
Extreme & Urban Environments: Prof Rob Richardson, University of Leeds
Intelligent Manufacturing: Gianmarco Pisanelli, AMRC
Manipulation, Perception & Control: Prof Kaspar Althoefer, Queen Mary University of London
Swarm & Reconfigurable Robots: Dr Roderich Gross, University of Sheffield

Industry Sponsor Chair

Professor Darwin Caldwell, Founding Director of the Italian Institute of Technology (IIT) in Genoa Italy, and Director of the Dept. of Advanced Robotics (ADVR) at IIT

IEEE Entrepreneurship Chair

Mr Rea Nkhumise, University of Sheffield



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Wednesday 21st February 2024
University of Sheffield
The Diamond Building, Lecture Theatre 7 & 9,
32 Leavygreave Road, Sheffield, S3 7RD

9.30 - 10.00	Registration	
10.00 - 10.15	Welcome address (Lecture Theatre 7, basement) <ul style="list-style-type: none"> • Prof Alessandro di Nuovo (Sheffield Hallam University) • Prof Sanja Dogramadzi (University of Sheffield) • Prof Hongmei He , Intro to the IEEE UK RAS chapter • Prof Paul Cunningham, Section Chair, Intro to IEEE UK & Ireland Section 	
10.15 - 12.00	Industry Forum (Lecture Theatre 7, basement) Chaired by Professor Darwin Caldwell, Founding Director of the Italian Institute of Technology (IIT) in Genoa Italy, and Director of the Dept. of Advanced Robotics (ADVR) at IIT	
12.00 - 12.30	Government Ministers (tbc) (Lecture Theatre 7, basement)	
12.30 -13.30	Lunch & Poster session	
13.30- 14.00	Keynote (Lecture Theatre 7, basement) Opteran Technologies , Dr Michael Mangan, Research Director	
Parallel Sessions		
14.00 - 15.30	Soft Robotics & Microrobotics (Lecture Theatre 7, basement)	Human-Robot Interaction, Social & Ethical Challenges (Lecture Theatre 9, second floor)
15.30-16.00	30 min break	
16.00 - 17.30	Autonomy, Trust & Verification (Lecture Theatre 7, basement)	Medical Robotics & Autonomous Systems (inc. Surgical & Rehabilitation Robotics) (Lecture Theatre 9, second floor)
Optional tour available - (details to TBC - limited spaces available)		
17.30 - 18.30	Sheffield Robotics Lab , Sheffield Biomedical Robotics Lab Sheffield Microrobotics Lab	



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19.00	Optional: Social Dinner (Sheffield Plate) Google Map
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Thursday 22nd February 2024 Sheffield Hallam University Owen Building , Hallam Hall, City Campus, Hallam Square, Sheffield, S1 2LX
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9.00 - 9.30	Registration
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9.30 - 10.00	Sheffield Robotics presentation (Hallam Hall)
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10.00 - 10.30	Keynote (Hallam Hall) AMRC : Professor Ben Morgan, Research Director
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Parallel Sessions	
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11.00 - 12.30	Extreme and Urban Environments	Intelligent Manufacturing
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12.30 - 13.30	Lunch & Poster session (Hallam Hall)	
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13.30 - 15.00	Manipulation, Perception and Control	Swarm and Reconfigurable Robots
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15.00 - 15.30	Poster Awards and closure	
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Optional parallel tour available - (details to TBC - limited spaces available)	
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15.30 - 16.30	Advanced Wellbeing Research Centre (AWRC)
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Global Entrepreneurship Week- Pitch Competition
Wednesday 21st February 2024
University of Sheffield
[The Diamond Building](#) / [Pam Liversidge Building](#)

The pitch competition will take place as a track in the 7th IEEE UK & Ireland RAS Conference (RAS 2024) hosted by the University of Sheffield and Sheffield Hallam University. Top experts will lead talks and discussions; innovative ideas will be pitched; and top three pitchers will advance to the regional semi-finals for a chance to win a trip to an Entrepreneurship Summit.

9.30 - 10.00	Registration
10.00 - 10.15	Welcome address (Lecture Theatre 7, basement) <ul style="list-style-type: none"> • Prof Alessandro di Nuovo (Sheffield Hallam University) • Prof Sanja Dogramadzi (University of Sheffield) • Prof Hongmei He , Introduction to the IEEE UK RAS chapter • Prof Paul Cunningham, Section Chair, Introduction to IEEE UK & Ireland Section
10.15 - 12.00	Industry Forum (Lecture Theatre 7, basement) Chaired by Professor Darwin Caldwell, Founding Director of the Italian Institute of Technology (IIT) in Genoa Italy, and Director of the Dept. of Advanced Robotics (ADVR) at IIT
12.00 - 12.30	Government Ministers (tbc) (Lecture Theatre 7, basement)
12.30 -13.30	Lunch & Poster session
Sessions (Pam Liversidge Building, Newcastle Street, S1 3JD), Room E05, Floor E	
13.30 -15.30	IEEE Entrepreneurship Talks/Tutorials
15:30 - 16.00	30 min break
16.00 -17.30	IEEE Entrepreneurship Student Pitches
Optional parallel tours available - (details to TBC - limited spaces available)	
17.30 - 18.30	Sheffield Robotics Lab , Sheffield Biomedical Robotics Lab , Sheffield Microrobotics Lab
19.00	Optional: Social Dinner (Sheffield Plate) Google Map



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