Date:	17 February 2023		
Main Venue:	Gustave Tuck Lecture Theatre, Main Building, UCL Bloomsbury Campus		
Second Venue:	Jeremy Bentham Room, Main Building, UCL Bloomsbury Campus		

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Time	Activity			
09:30 – 10:00	Registration			
10:00 – 10:05	Logistic Announcement			
10:05 – 10:10	Welcoming Speech			
	Prof Sarah Spurgeon			
10:10 – 10:30	Director of UCL Robotics Institute Opening Keynote: Challenges & Opportunities in R&D and Commercialization of Robotics			
	Technologies			
	Robert Skilton Head of Research at RACE, UK Atomic Energy Authority			
10:30 – 11:15	Coffee Break			
	Poster Displays and Live Project Demos Parallel Breakout Tracks			
	Gustave Tuck Lecture Theatre		Jeremy Bentham Room	
	Foundational Technologies in A.I. & ML,		Applications of Robotics in Healthcare and	
	Autonomous Navigation & Path Planning, Communications, Computer Vision, Control	•	Beyond	
	and Sensing, Localization & Mapping, VR/AR		Session Chair: Prof Tom Carlson	
			Co-Chair: Dr Peter Snow	
	Session Chair: Dr Dimitrios Kanoulas			
	Co-Chairs:			
11:15 – 11:30	Dr Sophia Bano, Prof Simon Julier A Convex and Robust Distributed Model	С	Flexible Force Sensors to Improve Safety and	
	Predictive Control for Heterogeneous Vehicle Platoons		Training in Operative Birth Carmen Salvadores Fernandez	
11:30 –11:45	Hao Sun A Adaptive Autonomous Navigation of Multiple	С	How Might Robotics Transform Rehabilitation	
	Óptoelectronic Microrobots in Dynamic Environments		Rui Loureiro	
11:45 –12:00	Laurent Mennillo A An End-to-End Task Allocation Framework	С	Virtual Reality and Augmented Reality Surgical	
	for Autonomous Mobile Systems Song Ma		Simulations using SPEEDOP Platform Hoang Ha Le	
12:00 – 12:15	A Cooperative Control of Swarm Robotics Junyan Hu	С	Visual kinematic force estimation for robotic- assisted laparoscopic partial nephrectomy	
	Juliyan nu		training Eddie Edwards	
12:15 – 12:30	A BCI-TVR: Brain-Computer Interface Training	С	A Novel MR-compatible Pulmonary Artery	
	with Virtual Reality Alexander Thomas		Catheterisation Robotic System: Design and Evaluation	
12:30 – 12:45	A Garrulus: Reforestation and monitoring of	С	Yaxi Wang Valvuloplasty Balloon Catheter Assisted	
	damaged forest areas by unmanned aerial vehicles		Compliant Aortic Annulus Sizing with Variable Elliptical Ratio	
12:45 – 14:00	Ahmad Drak Lund	ch Bı	JUNKE YAO reak	
	Poster Displays and Live Project Demos Parallel Breakout Tracks			
	Gustave Tuck Lecture Theatre Jeremy Bentham Room			
	Foundational Technologies in Bio-inspired Robots, Haptics Human-Robot Interaction,	Inc	Industrial Applications of Robotics and Beyond	
	Legged Robotics, Materials, Mechanism Design, Multi-Robot Systems, Soft Robotics		Session Chair: Prof Bani Anvari	
	Session Chair: Dr Sara Abad Guaman		Co-Chair: Dr Jakub Krol	
	Co-Chair: Prof Helge Wurdemann			
14:00 – 14:15	B Control and Sensing of soft bodied robots Thomas George Thuruthel	D	Applied robotics in the Built Environment Jingyuan Meng and Guillem Perutxet Olesti	
14:15 – 14:30	B Twisted String Actuation Systems in Robotics	Α	Aerial additive manufacturing with multiple autonomous robots	
44.00 44.45	Igor Gaponov		Vijay M. Pawar	
14:30 – 14:45	B Fluidic haptic feedback system for upper limb prosthetics	В	The Road to Intelligent Machines Zhibin (Alex) LI	
14:45 – 15:00	Ge Shi B A Body-Powered Soft-Actuated Partial-Hand	В	The Bubble Worlds - a Social Interactive	
	Prosthetic Device with Integrated Haptic Feedback		Structure Reflecting How Did Refugees Experience the Covid-19 Lockdown?	
15:00 – 15:15	Kamyar Motaghedolhagh B Design, Modelling and Control for Chamber-	С	Azadeh Shariati Development of Surgical Tooling with Haptic	
	reinforced Soft Continuum Robots Jialei Shi		Feedback for the SPEEDOP Surgical Simulation Platform	
15:15 – 15:30	B Reverse Mathematics and Systems	С	Elliott Magee How understanding the role of instrumental-	
10.10 - 10.00	Framework for Embodied Intelligence Erin Nolan		affective touch in occupational therapy practice may support the development of collaborative	
	Em Roian		robots in healthcare Raffaele Buono, Minna Nygren, Liang He,	
			Perla Maiolino, Nadia Berthouze, University	
15:30 – 15:45	B Pneumatic Membrane Actuation for Tissue	Α	Robots with Legs & Arms: Cognition for Real-	
	Stiffness Sensing and Palpation Duncan G. Raitt		World Loco/Manipulation in Complex Environments	
15:45 – 16:05	Closing Keynote: Industry-University Partnersh	ip or	Dimitrios Kanoulas Frontier Robotics Research and Innovations -	
	Swarm Sound Modulators for multi-sensory experiences			
	Prof Sriram Subramanian RAEng Chair in Emerging Technologies &			
16:05 – 16:15	Vice Dean (Enterprise) of Engineering Sciences Best Poster Awards Presentation			
16:15 – 17:00	Drink Reception Poster Displays and Live Project Demos			
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