



7th IEEE – RAS International
Conference on Soft Robotics

ROBOSOFT 2024

San Diego, CA USA
April 14-17, 2024



Fluid-driven soft actuators: challenges and opportunities

Workshop

ORGANIZERS

#	Name	Affiliation and Email
1	Linda Paternò	The BioRobotics Institute – Sant'Anna School of Advanced Studies Email: linda.paterno@santannapisa.it
2	Arianna Menciassi	The BioRobotics Institute – Sant'Anna School of Advanced Studies Email: arianna.menciassi@santannapisa.it
3	Tommaso Ranzani	Boston University Email: tranzani@bu.edu

INVITED SPEAKERS

#	Name	Affiliation	Country	Gender	Status
1	Robert Shepherd	Cornell University	USA	Male	Confirmed
2	Siyi Xu	University of Illinois	USA	Female	Confirmed
3	Martin Garrad	University of Bristol	UK	Male	Confirmed
4	Daniel Preston	Rise University	USA	Male	Confirmed
5	Vito Cacucciolo	Politecnico di Bari	Italy	Male	Confirmed Online
6	Hugo Rodrigue	Sungkyunkwan University	Korea	Male	Confirmed
7	Perla Maiolino	University of Oxford	UK	Female	Confirmed
8	Michael Tolley	University of California	USA	Male	Confirmed



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FINAL AGENDA

8:00	10:00	Session 1
08:00	08:15	Robert Shepherd - Cornell University <i>Title</i> <i>[10 min + 5 min Q&A]</i>
08:15	08:30	Hugo Rodrigue - Sungkyunkwan University <i>Hyperbaric vacuum actuator harnessing simultaneous negative and positive pressures</i> <i>[10 min + 5 min Q&A]</i>
08:30	08:45	Siyi Xu - University of Illinois <i>Sensing, actuation, and control of soft fluid-driven robots</i> <i>[10 min + 5 min Q&A]</i>
08:45	09:00	Vito Cacucciolo – Politecnico di Bari <i>Solid-state soft pumps for robots and wearables</i> <i>[10 min + 5 min Q&A]</i>
09:00	09:15	Michael Tolley - University of California <i>3D printing of soft robots with embodied fluidic control circuits</i> <i>[10 min + 5 min Q&A]</i>
09:15	10:00	Flash talks
10:00	10:30	<i>Coffee break and poster session</i>
10:30	11:15	Session 2
10:30	10:45	Perla Maiolino - University of Oxford <i>New valve designs for control and computation of pneumatically actuated soft robots</i> <i>[10 min + 5 min Q&A]</i>
10:45	11:00	Daniel Preston - Rice University <i>Embedding Fluidic Control in Compliant Architectures</i> <i>[10 min + 5 min Q&A]</i>
11:00	11:15	Martin Garrad - University of Bristol <i>Electro-fluidic control of Soft Robots</i> <i>[10 min + 5 min Q&A]</i>
11:15	12:00	Panel discussion
12:00	13:30	<i>Lunch break</i>