



7th IEEE-RAS International Conference on
Soft Robotics

ROBOSOFT 2024

San Diego, CA USA
April 14-17, 2024

WORKSHOPS – FULL DAY

Refer to individual workshop's website for detailed program schedule.

TOPIC AREA: Biomedical

ROOM: Encore 3 (Level 2)

Bio-Hybrids: When Robots Get Alive

TOPIC AREA: Aerial Robotics

ROOM: Encore 2 (Level 2)

Bio-inspired Soft Metamorphic Aerial Robotics -Year 3- What can we Learn from Nature to Develop Shape-Changing, Metamorphic, Adaptive, Multi-Functional and Multi-Terrain Aerial Robots

TOPIC AREA: Embodied Intelligence

ROOM: Revolution 2 (Level 1)

Democratization of Soft Robotics through Embodied Intelligence

TOPIC AREA: Bioinspiration

ROOM: Legends 6 (Level 2)

From Layers to Limbs: Exploring the Interface of 3D Printing and Bio-Inspired Musculoskeletal Robotics

TOPIC AREA: Manipulation, Multimodal Locomotion

ROOM: Legends 5 (Level 2)

Multimodal Soft Robots for Multifunctional Manipulation, Locomotion, and Human-Machine Interaction

TOPIC AREA: Bioinspiration

ROOM: Legends 3 & 4 (Level 2)

Soft Robotics-Inspired Biology



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WORKSHOPS – Morning

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TOPIC AREA: Exploration

ROOM: Satisfaction (Level 1)

Embodied Exploration Through Muscular Hydrostats

TOPIC AREA: Actuators

ROOM: Revolution 1 (Level 1)

Fluid-Driven Soft Actuators: Challenges and Opportunities

TOPIC AREA: Exploration

ROOM: Imagine 2 (Level 2)

Into the Woods: Soft machines for Ecosystem Exploration

TOPIC AREA: Exploration

ROOM: Encore 1 (Level 2)

Pristine Waters Observatories – Where Eco and Soft Robotics Meet

TOPIC AREA: Shape Change

ROOM: Imagine 1 (Level 2)

**Shape Morphing Robots: From Pattern-to-Pattern to Programmable
Shape Morphing**



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WORKSHOPS – Afternoon

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TOPIC AREA: Actuators

ROOM: Revolution 1 (Level 1)

Challenges and Opportunities of Electrically-Driven Soft Actuators

TOPIC AREA: Embodied Intelligence

ROOM: Satisfaction (Level 1)

Material Intelligence Through Multifunctional Structures: Challenges in Design and Manufacturing

TOPIC AREA: Shape Change

ROOM: Encore 1 (Level 2)

Shape Morphing in Soft Robots: Debates, Challenges and Future Directions

TOPIC AREA: Electronics

ROOM: Imagine 2 (Level 2)

Soft Electronics meets Soft Robotics

TOPIC AREA: Variable Stiffness

ROOM: Imagine 1 (Level 2)

Stiffening Techniques for Soft Robotics