

Robomech2026 Keyword List

1. 3D Measurement
2. 3D Printing / 3D Printer
3. Actuator
4. Agricultural Robot
5. Artificial Muscle
6. Augmented Reality (AR)
7. Automation
8. Autonomous Driving
9. Autonomous Mobile Robot
10. Behavior Estimation and Prediction
11. Biological Signals (EMG, EEG, etc.)
12. Biomechanics
13. Biomimetics / Bio-inspired
14. Biped Robot
15. Cell Manipulation
16. Collaborative Robot (Cobot)
17. Communication Network / Networked Robot
18. Communication Robot
19. Construction Robot / Machinery
20. Control
21. Cooperative Control and Motion
22. Crawler
23. Cyber-Physical System (CPS)
24. Data-driven Control
25. Decentralized Autonomous Control
26. Decommissioning Technology / Decommissioning Robot
27. Deep Learning
28. Digital Twin
29. Disaster Response / Rescue Robot
30. Dual-arm Robot
31. Education
32. Electrical Stimulation
33. Emotion Estimation
34. Endoscopy / Laparoscopic Surgery
35. Extended Reality (XR)
36. Flapping-wing Robot
37. Flexible Object
38. Food
39. Force Control
40. Force Sensor
41. Foundation Models (LLM, VLM, etc.)
42. Gel Actuator
43. Generative AI
44. Grasping
45. Gripping Force
46. Haptic Feedback / Force Display
47. High-speed Vision
48. Hopping Robot
49. Human Augmentation
50. Humanoid
51. Human-Robot Interaction (HRI)
52. Hydraulics / Fluid Pressure
53. "Image Process. ing"
54. Image Recognition
55. Imitation Learning
56. Industrial Robot
57. Infrastructure Inspection
58. Interface
59. Laboratory Automation
60. Leader-Follower Control
61. Legged Robot
62. Life Support / Assistive Robotics
63. Linkage Mechanism
64. Locomotion Mechanism
65. LRF / LiDAR
66. Machine Learning
67. Magnetorheological Fluid (MR Fluid)
68. Manipulation
69. Manipulator / Robotic Arm
70. Mapping
71. Measurement and Monitoring
72. Mechanism
73. Mechatronics
74. Medical Robot
75. MEMS (Micro-Electro-Mechanical Systems)
76. Microfluidics
77. Microrobot
78. Mobile Robot
79. Mobility / Transfer Assistance
80. Model Predictive Control (MPC)
81. Modeling
82. Modular Robot / Modular System
83. Molecular Motor (including Biological)
84. Motion Capture
85. Motion Planning
86. Motion Recognition and Analysis
87. Multi-legged Robot (More than 4 legs)
88. Multimodal
89. Musculoskeletal Model
90. Navigation
91. Neural Network
92. Object Recognition / Pose Estimation
93. Obstacle Avoidance / Collision Avoidance
94. Omnidirectional Mobility
95. Operation Assistance
96. Optimization
97. Orthosis / Assistive Device
98. Parallel Mechanism
99. Passive Walking
100. Path Planning / Generation / Tracking
101. Peristaltic Motion
102. Personal Mobility
103. Physical AI / Sim2Real
104. Pneumatics / Pneumatic Actuator
105. Positioning Technology / GNSS
106. Posture Control
107. Power Assist
108. Proximity Sensor
109. Rehabilitation
110. Reinforcement Learning
111. RGB-D Camera
112. Robot Contest
113. Robot Middleware (ROS, OpenRTM, etc.)
114. Robot-friendly Design
115. Robotic Hand
116. Rough Terrain Locomotion
117. Safety
118. Security Robotics
119. Self-localization
120. Sensor / Sensing Device
121. Sensor Fusion
122. Simulation
123. SLAM (Simultaneous Localization and Mapping)
124. Snake Robot
125. Social Implementation
126. Soft Actuator
127. Soft Robotics
128. Space Robot
129. Spatial Intelligence
130. Sports
131. Step Climbing
132. Suction / Adhesion
133. Surgical Assistance
134. Swarm Robotics
135. Tactile / Touch
136. Tactile Sensor
137. Teleoperation / Remote Control
138. Tensegrity Structure
139. Trajectory Planning
140. UAV / Drone / Flying Robot
141. Ultrasound Diagnosis
142. Underactuated System
143. Underwater Robot
144. Variable Stiffness
145. Vision-Language-Action (VLA)
146. Vibration
147. Virtual Reality (VR)
148. Visual Servoing
149. Walking
150. Walking Assistance
151. Wall-climbing
152. Wearable Device
153. Wearable Robot
154. Welfare / Assistive Technology
155. Wheelchair (including Electric)
156. Wheeled Mobile Robot
157. Wire-driven Mechanism
158. Work Assistance