

Cecilia Laschi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

319
papers

8,853
citations

42
h-index

87
g-index

361
ext. papers

11,274
ext. citations

4
avg. IF

6.7
L-index

| # | Paper | IF | Citations |
|-----------------|---|------|-----------|
| 3 ¹⁹ | Closed-loop Dynamic Control of a Soft Manipulator using Deep Reinforcement Learning. <i>IEEE Robotics and Automation Letters</i> , 2022 , 1-1 | 4.2 | 1 |
| 3 ¹⁸ | Modeling Vestibular Afferents for Neuromorphic Sensing and Eye Movement Control. <i>Lecture Notes in Networks and Systems</i> , 2022 , 142-153 | 0.5 | |
| 3 ¹⁷ | Controlling Soft Robotic Arms Using Continual Learning. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5469-5476 | 4.2 | 1 |
| 3 ¹⁶ | Soft Robotics. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2022 , 115-136 | 0.6 | |
| 3 ¹⁵ | Experiments on Oscillation Control of a Continuum Soft Robotic Manipulator. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 557-571 | 0.4 | |
| 3 ¹⁴ | Bioinspired materials and approaches for soft robotics. <i>MRS Bulletin</i> , 2021 , 46, 345-349 | 3.2 | 0 |
| 3 ¹³ | Learning to stop: a unifying principle for legged locomotion in varying environments. <i>Royal Society Open Science</i> , 2021 , 8, 210223 | 3.3 | 0 |
| 3 ¹² | Actuation Technologies for Soft Robot Grippers and Manipulators: A Review. <i>Current Robotics Reports</i> , 2021 , 2, 355-369 | 3.5 | 15 |
| 3 ¹¹ | Conductive Silicone Vocal Folds Reproducing Electroglottographic Signal in Pathophysiological Conditions. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021 , 3, 337-348 | 3.1 | 1 |
| 3 ¹⁰ | Morphologically induced stability on an underwater legged robot with a deformable body. <i>International Journal of Robotics Research</i> , 2021 , 40, 435-448 | 5.7 | 9 |
| 3 ⁰⁹ | Recurrence quantification analysis of EEG signals for tactile roughness discrimination. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 1115-1136 | 3.8 | 2 |
| 3 ⁰⁸ | Making an Opportunity Out of a Crisis: The Inclusive Approach of the Italian Robotics Community. <i>IEEE Robotics and Automation Magazine</i> , 2021 , 2-14 | 3.4 | 1 |
| 3 ⁰⁷ | Robotics Responds to the COVID-19 Outbreak [From the Guest Editors]. <i>IEEE Robotics and Automation Magazine</i> , 2021 , 28, 16-17 | 3.4 | 1 |
| 3 ⁰⁶ | The ItalyJapan Workshop: A History of Bilateral Cooperation, Pushing the Boundaries of Robotics. <i>IEEE Robotics and Automation Magazine</i> , 2021 , 28, 150-162 | 3.4 | |
| 3 ⁰⁵ | Sharpness recognition based on synergy between bio-inspired nociceptors and tactile mechanoreceptors. <i>Scientific Reports</i> , 2021 , 11, 2109 | 4.9 | 3 |
| 3 ⁰⁴ | Bioinspired underwater legged robot for seabed exploration with low environmental disturbance. <i>Science Robotics</i> , 2020 , 5, | 18.6 | 31 |
| 3 ⁰³ | Locomotory behaviour of the intertidal marble crab (<i>Pachygrapsus marmoratus</i>) supports the underwater spring-loaded inverted pendulum as a fundamental model for punting in animals. <i>Bioinspiration and Biomimetics</i> , 2020 , 15, 055004 | 2.6 | 4 |

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| 302 | A vision for future bioinspired and biohybrid robots. <i>Science Robotics</i> , 2020 , 5, | 18.6 | 23 |
| 301 | I-Support: A robotic platform of an assistive bathing robot for the elderly population. <i>Robotics and Autonomous Systems</i> , 2020 , 126, 103451 | 3.5 | 15 |
| 300 | Cerebellar adaptive mechanisms explain the optimal control of saccadic eye movements. <i>Bioinspiration and Biomimetics</i> , 2020 , 16, 016004 | 2.6 | 1 |
| 299 | A Cerebellum-Inspired Learning Approach for Adaptive and Anticipatory Control. <i>International Journal of Neural Systems</i> , 2020 , 30, 1950028 | 6.2 | 7 |
| 298 | Evaluation of the Electroglottographic Signal Variability in Organic and Functional Dysphonia. <i>Journal of Voice</i> , 2020 , | 1.9 | 1 |
| 297 | Experimental and Computational Study on Motor Control and Recovery After Stroke: Toward a Constructive Loop Between Experimental and Virtual Embodied Neuroscience. <i>Frontiers in Systems Neuroscience</i> , 2020 , 14, 31 | 3.5 | 6 |
| 296 | A bistable soft gripper with mechanically embedded sensing and actuation for fast grasping 2020 , | | 4 |
| 295 | . <i>IEEE Robotics and Automation Magazine</i> , 2020 , 27, 12-26 | 3.4 | 11 |
| 294 | The Challenge of Studying Interaction in Children with Autism Spectrum Disorder during Play Activity with a Robotic Platform. <i>Journal of Developmental and Physical Disabilities</i> , 2020 , 32, 113-129 | 1.5 | 2 |
| 293 | Quantitative Measurements of Octopus vulgaris Arms for Bioinspired Soft Robotics. <i>Cognitive Systems Monographs</i> , 2020 , 3-14 | 0.2 | 2 |
| 292 | Spike train analysis in a digital neuromorphic system of cutaneous mechanoreceptor. <i>Neurocomputing</i> , 2020 , 379, 343-355 | 5.4 | 0 |
| 291 | Structured motor exploration for adaptive learning-based tracking in soft robotic manipulators 2019 , | | 1 |
| 290 | Combining Evolutionary and Adaptive Control Strategies for Quadruped Robotic Locomotion. <i>Frontiers in Neurorobotics</i> , 2019 , 13, 71 | 3.4 | 4 |
| 289 | Soft robot perception using embedded soft sensors and recurrent neural networks. <i>Science Robotics</i> , 2019 , 4, | 18.6 | 189 |
| 288 | Early Intervention to Improve Sucking in Preterm Newborns: A Systematic Review of Quantitative Studies. <i>Advances in Neonatal Care</i> , 2019 , 19, 97-109 | 2 | 7 |
| 287 | Emergence of behavior through morphology: a case study on an octopus inspired manipulator. <i>Bioinspiration and Biomimetics</i> , 2019 , 14, 034001 | 2.6 | 4 |
| 286 | The Use of Smart Tools for Combined Training of People with MCI: A Case Report. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 121-134 | 0.2 | |
| 285 | Cerebellum-inspired approach for adaptive kinematic control of soft robots 2019 , | | 4 |

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| 284 | Foot Inertial Sensing for Combined Cognitive-Motor Exercise of the Sustained Attention Domain. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2413-2420 | 5 | 5 |
| 283 | Emotion as an emergent phenomenon of the neurocomputational energy regulation mechanism of a cognitive agent in a decision-making task. <i>Adaptive Behavior</i> , 2019 , 105971231988064 | 1.1 | 2 |
| 282 | Comparison of electroglottographic variability index in euphonic and pathological voice. <i>Acta Otorhinolaryngologica Italica</i> , 2019 , 39, 381-388 | 2.8 | 3 |
| 281 | A Digital Hardware System for Spiking Network of Tactile Afferents. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1330 | 5.1 | 2 |
| 280 | Surveying and cleaning plastic pollution in the sediment: SILVER+ approach 2019 , | | 5 |
| 279 | Can physical and cognitive training based on episodic memory be combined in a new protocol for daily training?. <i>Aging Clinical and Experimental Research</i> , 2019 , 31, 1615-1623 | 4.8 | 4 |
| 278 | Model-Based Reinforcement Learning for Closed-Loop Dynamic Control of Soft Robotic Manipulators. <i>IEEE Transactions on Robotics</i> , 2019 , 35, 124-134 | 6.5 | 93 |
| 277 | . <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 109-119 | 5.5 | 11 |
| 276 | Stable Open Loop Control of Soft Robotic Manipulators. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1292-1298 | 4.2 | 37 |
| 275 | Control Strategies for Soft Robotic Manipulators: A Survey. <i>Soft Robotics</i> , 2018 , 5, 149-163 | 9.2 | 220 |
| 274 | A Multi-soft-body Dynamic Model for Underwater Soft Robots. <i>Springer Proceedings in Advanced Robotics</i> , 2018 , 143-160 | 0.6 | 4 |
| 273 | A Digital Hardware Realization for Spiking Model of Cutaneous Mechanoreceptor. <i>Frontiers in Neuroscience</i> , 2018 , 12, 322 | 5.1 | 16 |
| 272 | Effect of base rotation on the controllability of a redundant soft robotic arm 2018 , | | 1 |
| 271 | Evolving Soft Locomotion in Aquatic and Terrestrial Environments: Effects of Material Properties and Environmental Transitions. <i>Soft Robotics</i> , 2018 , 5, 475-495 | 9.2 | 27 |
| 270 | A unified multi-soft-body dynamic model for underwater soft robots. <i>International Journal of Robotics Research</i> , 2018 , 37, 648-666 | 5.7 | 23 |
| 269 | . <i>IEEE Sensors Journal</i> , 2018 , 18, 6327-6336 | 4 | 11 |
| 268 | Modeling the Encoding of Saccade Kinematic Metrics in the Purkinje Cell Layer of the Cerebellar Vermis. <i>Frontiers in Computational Neuroscience</i> , 2018 , 12, 108 | 3.5 | 2 |
| 267 | Multiobjective Optimization for Stiffness and Position Control in a Soft Robot Arm Module. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 108-115 | 4.2 | 46 |

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| 266 | Model-based open loop control of a multigait legged underwater robot. <i>Mechatronics</i> , 2018 , 55, 162-170; | | 17 |
| 265 | Induced Vibrations of Soft Robotic Manipulators for Controller Design and Stiffness Estimation 2018 , | | 3 |
| 264 | Biomedical applications of soft robotics. <i>Nature Reviews Materials</i> , 2018 , 3, 143-153 | 73-3 | 437 |
| 263 | Head stabilization in a humanoid robot: models and implementations. <i>Autonomous Robots</i> , 2017 , 41, 349-365 | 3 | 12 |
| 262 | Evaluation of the Electroglottographic signal variability by amplitude-speed combined analysis. <i>Biomedical Signal Processing and Control</i> , 2017 , 37, 61-68 | 4-9 | 7 |
| 261 | Educational Robotics intervention on Executive Functions in preschool children: A pilot study. <i>Computers in Human Behavior</i> , 2017 , 71, 16-23 | 7-7 | 79 |
| 260 | Octobot - A robot octopus points the way to soft robotics. <i>IEEE Spectrum</i> , 2017 , 54, 38-43 | 1-7 | 8 |
| 259 | Hybrid parameter identification of a multi-modal underwater soft robot. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 025007 | 2-6 | 28 |
| 258 | Electrohydrodynamic Conduction Pump with Asymmetrical Electrode Structures in the Microchannels. <i>Chemistry Letters</i> , 2017 , 46, 950-952 | 1-7 | 12 |
| 257 | Towards the development of a soft manipulator as an assistive robot for personal care of elderly people. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141668713 | 1-4 | 49 |
| 256 | Fundamentals of soft robot locomotion. <i>Journal of the Royal Society Interface</i> , 2017 , 14, | 4-1 | 115 |
| 255 | Conduction Electrohydrodynamics with Mobile Electrodes: A Novel Actuation System for Untethered Robots. <i>Advanced Science</i> , 2017 , 4, 1600495 | 13-6 | 16 |
| 254 | Helping robots blend into the background. <i>Science</i> , 2017 , 358, 169 | 33-3 | 5 |
| 253 | Morphological and control criteria for self-stable underwater hopping. <i>Bioinspiration and Biomimetics</i> , 2017 , 13, 016001 | 2-6 | 8 |
| 252 | Development and characterization of a multilayer matrix textile sensor for interface pressure measurements. <i>Smart Materials and Structures</i> , 2017 , 26, 104011 | 3-4 | 17 |
| 251 | Learning dynamic models for open loop predictive control of soft robotic manipulators. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 066003 | 2-6 | 50 |
| 250 | A comprehensive gaze stabilization controller based on cerebellar internal models. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 065001 | 2-6 | 10 |
| 249 | A rotating polarizing filter approach for image enhancement 2017 , | | 3 |

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| 248 | Active-Braid, a Bioinspired Continuum Manipulator. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 2104-2110 | 2.1 | 8 |
| 247 | An active simulator for neonatal intubation: Design, development and assessment. <i>Medical Engineering and Physics</i> , 2017 , 39, 57-65 | 2.4 | 3 |
| 246 | A Framework for Coupled Simulations of Robots and Spiking Neuronal Networks. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 85, 71-91 | 2.9 | 11 |
| 245 | Warp-Knitted Textile as a Strain Sensor: Characterization Procedure and Application in a Comfortable Wearable Goniometer. <i>IEEE Sensors Journal</i> , 2017 , 17, 5927-5936 | 4 | 16 |
| 244 | Feasibility study on the assessment of auditory sustained attention through walking motor parameters in mild cognitive impairments and healthy subjects. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 897-900 | 0.9 | 6 |
| 243 | Development and testing of a new cognitive technological tool for episodic memory: A feasibility study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 893-896 | 0.9 | 3 |
| 242 | Sense of movement: Simplifying principles for humanoid robots. <i>Science Robotics</i> , 2017 , 2, | 18.6 | 1 |
| 241 | Swinging paper actuator driven by conduction electrohydrodynamics 2017 , | | 2 |
| 240 | Active suction cup actuated by ElectroHydroDynamics phenomenon 2017 , | | 9 |
| 239 | A pressure-sensitive palatograph for speech analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 4431-4434 | 0.9 | 1 |
| 238 | Evolutionary Developmental Soft Robotics As a Framework to Study Intelligence and Adaptive Behavior in Animals and Plants. <i>Frontiers in Robotics and AI</i> , 2017 , 4, | 2.8 | 9 |
| 237 | Connecting Artificial Brains to Robots in a Comprehensive Simulation Framework: The Neurorobotics Platform. <i>Frontiers in Neurorobotics</i> , 2017 , 11, 2 | 3.4 | 48 |
| 236 | Proprioceptive Feedback through a Neuromorphic Muscle Spindle Model. <i>Frontiers in Neuroscience</i> , 2017 , 11, 341 | 5.1 | 2 |
| 235 | Learning Closed Loop Kinematic Controllers for Continuum Manipulators in Unstructured Environments. <i>Soft Robotics</i> , 2017 , 4, 285-296 | 9.2 | 48 |
| 234 | Exploiting Morphology of a Soft Manipulator for Assistive Tasks. <i>Lecture Notes in Computer Science</i> , 2017 , 291-301 | 0.9 | 6 |
| 233 | A Closed Loop Shape Control for Bio-inspired Soft Arms. <i>Lecture Notes in Computer Science</i> , 2017 , 567-573 | 0.9 | 1 |
| 232 | . <i>IEEE Robotics and Automation Magazine</i> , 2016 , 23, 107-114 | 3.4 | 37 |
| 231 | Eye-Head Stabilization Mechanism for a Humanoid Robot Tested on Human Inertial Data. <i>Lecture Notes in Computer Science</i> , 2016 , 341-352 | 0.9 | 3 |

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| 230 | Large deformation of self-oscillating polymer gel. <i>Physical Review E</i> , 2016 , 93, 010501 | 2.4 | 9 |
| 229 | Modelling the nonlinear response of fibre-reinforced bending fluidic actuators. <i>Smart Materials and Structures</i> , 2016 , 25, 105020 | 3.4 | 24 |
| 228 | A Multiagent Reinforcement Learning approach for inverse kinematics of high dimensional manipulators with precision positioning 2016 , | | 17 |
| 227 | Soft assistive robot for personal care of elderly people 2016 , | | 36 |
| 226 | Pleasant to the Touch: By Emulating Nature, Scientists Hope to Find Innovative New Uses for Soft Robotics in Health-Care Technology. <i>IEEE Pulse</i> , 2016 , 7, 34-7 | 0.7 | 7 |
| 225 | Pressure mapping with textile sensors for compression therapy monitoring. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016 , 230, 795-808 | 1.7 | 13 |
| 224 | Soft Robotics: from scientific challenges to technological applications 2016 , | | 1 |
| 223 | An improved tracking algorithm for underwater vessels using the passive sonar 2016 , | | 2 |
| 222 | Hopping on Uneven Terrains With an Underwater One-Legged Robot. <i>IEEE Robotics and Automation Letters</i> , 2016 , 1, 461-468 | 4.2 | 22 |
| 221 | CareToy: An Intelligent Baby Gym: Home-Based Intervention for Infants at Risk for Neurodevelopmental Disorders. <i>IEEE Robotics and Automation Magazine</i> , 2016 , 23, 63-72 | 3.4 | 9 |
| 220 | Underwater soft-bodied pulsed-jet thrusters: Actuator modeling and performance profiling. <i>International Journal of Robotics Research</i> , 2016 , 35, 1308-1329 | 5.7 | 39 |
| 219 | Correcting for changes: expected perception-based control for reaching a moving target. <i>IEEE Robotics and Automation Magazine</i> , 2016 , 23, 63-70 | 3.4 | 2 |
| 218 | Learning Global Inverse Statics Solution for a Redundant Soft Robot 2016 , | | 18 |
| 217 | Visual Target Sequence Prediction via Hierarchical Temporal Memory Implemented on the iCub Robot. <i>Lecture Notes in Computer Science</i> , 2016 , 119-130 | 0.9 | 1 |
| 216 | Retina Color-Opponency Based Pursuit Implemented Through Spiking Neural Networks in the Neurorobotics Platform. <i>Lecture Notes in Computer Science</i> , 2016 , 16-27 | 0.9 | 4 |
| 215 | Adaptive gaze stabilization through cerebellar internal models in a humanoid robot 2016 , | | 7 |
| 214 | Contest-Driven Soft-Robotics Boost: The RoboSoft Grand Challenge. <i>Frontiers in Robotics and AI</i> , 2016 , 3, | 2.8 | 9 |
| 213 | Learning Global Inverse Kinematics Solutions for a Continuum Robot. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 47-54 | 0.6 | 20 |

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| 212 | An Autonomous Water Monitoring and Sampling System for Small-Sized ASVs. <i>IEEE Journal of Oceanic Engineering</i> , 2016 , 1-8 | 3.3 | 5 |
| 211 | Point-to-point motion controller for soft robotic manipulators 2016 , | | 4 |
| 210 | Sequential decision making based on emergent emotion for a humanoid robot 2016 , | | 1 |
| 209 | Soft Robotics and Morphological Computation [From the Guest Editors]. <i>IEEE Robotics and Automation Magazine</i> , 2016 , 23, 28-29 | 3.4 | 3 |
| 208 | Soft robotics: Technologies and systems pushing the boundaries of robot abilities. <i>Science Robotics</i> , 2016 , 1, | 18.6 | 605 |
| 207 | Sensorized pacifier to evaluate non-nutritive sucking in newborns. <i>Medical Engineering and Physics</i> , 2016 , 38, 398-402 | 2.4 | 7 |
| 206 | The Soft Robotics Week: A New Yearly Event for the Community of Soft Robotics. <i>Soft Robotics</i> , 2015 , 2, 88-90 | 9.2 | 1 |
| 205 | Novelty-Based Evolutionary Design of Morphing Underwater Robots 2015 , | | 18 |
| 204 | An Under-Actuated and Adaptable Soft Robotic Gripper. <i>Lecture Notes in Computer Science</i> , 2015 , 64-74 | 0.9 | 12 |
| 203 | Locomotion and elastodynamics model of an underwater shell-like soft robot 2015 , | | 10 |
| 202 | Soft Robotics Research, Challenges, and Innovation Potential, Through Showcases 2015 , 255-264 | | 9 |
| 201 | Comparative performances analysis of neonatal ventilators. <i>Italian Journal of Pediatrics</i> , 2015 , 41, 9 | 3.2 | 3 |
| 200 | Dynamic Walking with a Soft Limb Robot. <i>Lecture Notes in Computer Science</i> , 2015 , 13-25 | 0.9 | 2 |
| 199 | A Bioinspired Soft Robotic Gripper for Adaptable and Effective Grasping. <i>Soft Robotics</i> , 2015 , 2, 107-116 | 9.2 | 195 |
| 198 | Neural dynamics and sliding mode integration for the guidance of unmanned surface vehicles 2015 , | | 1 |
| 197 | . <i>IEEE Transactions on Robotics</i> , 2015 , 31, 823-834 | 6.5 | 105 |
| 196 | Learning the inverse kinetics of an octopus-like manipulator in three-dimensional space. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 035006 | 2.6 | 32 |
| 195 | Evolutionary discovery of self-stabilized dynamic gaits for a soft underwater legged robot 2015 , | | 11 |

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| 194 | Design and development of a soft robotic gripper for manipulation in minimally invasive surgery: a proof of concept. <i>Meccanica</i> , 2015 , 50, 2855-2863 | 2.1 | 44 |
| 193 | Sensorized graspable devices for the study of motor imitation in infants. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7394-7 | 0.9 | 0 |
| 192 | Thrust depletion at high pulsation frequencies in underactuated, soft-bodied, pulsed-jet vehicles 2015 , | | 11 |
| 191 | Structural Dynamics of a Pulsed-Jet Propulsion System for Underwater Soft Robots. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 68 | 1.4 | 13 |
| 190 | Underwater running on uneven terrain 2015 , | | 7 |
| 189 | Early Stage Economic Evaluation of Caretoy System for Early Intervention In Preterm Infants At Risk of Neurodevelopmental Disorders. <i>Value in Health</i> , 2015 , 18, A358 | 3.3 | 4 |
| 188 | A new system for quantitative evaluation of infant gaze capabilities in a wide visual field. <i>BioMedical Engineering OnLine</i> , 2015 , 14, 83 | 4.1 | 5 |
| 187 | Octopus-inspired robotics. Preface. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 030301 | 2.6 | 1 |
| 186 | Modelling cephalopod-inspired pulsed-jet locomotion for underwater soft robots. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 055005 | 2.6 | 27 |
| 185 | Cryo-scanning electron microscopy investigation of the Octopus Vulgaris arm structures for the design of an octopus-like arm artefact. <i>Microscopy Research and Technique</i> , 2015 , 78, 1133-45 | 2.8 | 2 |
| 184 | Bioinspired locomotion and grasping in water: the soft eight-arm OCTOPUS robot. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 035003 | 2.6 | 142 |
| 183 | A multi-depth sensorised micro sampling system 2015 , | | 1 |
| 182 | A novel simulator for mechanical ventilation in newborns: MEchatronic REspiratory System Simulator for Neonatal Applications. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015 , 229, 581-91 | 1.7 | 7 |
| 181 | Design and development of a bio-inspired, under-actuated soft gripper. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3619-22 | 0.9 | 19 |
| 180 | Sensorized pacifier to quantify the rhythmicity of non-nutritive sucking: A preliminary study on newborns. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7398-401 | 0.9 | 1 |
| 179 | A ROV for supporting the planned maintenance in underwater archaeological sites 2015 , | | 6 |
| 178 | A biorobotic model of the human larynx. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3623-6 | 0.9 | 3 |
| 177 | A visual tracking model implemented on the iCub robot as a use case for a novel neurobotic toolkit integrating brain and physics simulation 2015 , | | 5 |

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| 176 | Sensorized toys for measuring manipulation capabilities of infants at home. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7390-3</i> | 0.9 | 7 |
| 175 | Dynamics of underwater legged locomotion: modeling and experiments on an octopus-inspired robot. <i>Bioinspiration and Biomimetics, 2015, 10, 046012</i> | 2.6 | 44 |
| 174 | An in-situ, real-time Device for Hg Monitoring in Deep Waters 2015, | | 1 |
| 173 | The HydroNet ASV, a Small-Sized Autonomous Catamaran for Real-Time Monitoring of Water Quality: From Design to Missions at Sea. <i>IEEE Journal of Oceanic Engineering, 2015, 40, 710-726</i> | 3.3 | 27 |
| 172 | Integrating Feedback and Predictive Control in a Bio-Inspired Model of Visual Pursuit Implemented on a Humanoid Robot. <i>Lecture Notes in Computer Science, 2015, 256-267</i> | 0.9 | 13 |
| 171 | An active one-lobe pulmonary simulator with compliance control for medical training in neonatal mechanical ventilation. <i>Journal of Clinical Monitoring and Computing, 2014, 28, 251-60</i> | 2 | 3 |
| 170 | Soft Robotics on the Move: Scientific Networks, Activities, and Future Challenges. <i>Soft Robotics, 2014, 1, 154-158</i> | 9.2 | 24 |
| 169 | Dynamic Model of a Multibending Soft Robot Arm Driven by Cables. <i>IEEE Transactions on Robotics, 2014, 30, 1109-1122</i> | 6.5 | 212 |
| 168 | Evolving Optimal Swimming in Different Fluids: A Study Inspired by batoid Fishes. <i>Lecture Notes in Computer Science, 2014, 23-34</i> | 0.9 | 5 |
| 167 | Bioinspired Soft Actuation System Using Shape Memory Alloys. <i>Actuators, 2014, 3, 226-244</i> | 2.4 | 52 |
| 166 | Adaptive visual pursuit involving eye-head coordination and prediction of the target motion 2014, | | 12 |
| 165 | 2014, | | 1 |
| 164 | Towards a neuromorphic vestibular system. <i>IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 669-80</i> | 5.1 | 9 |
| 163 | Soft Robotics: New Perspectives for Robot Bodyware and Control. <i>Frontiers in Bioengineering and Biotechnology, 2014, 2, 3</i> | 5.8 | 208 |
| 162 | Development and validation of a sensorized neonatal intubation skill trainer for simulation based education enhancement. <i>International Journal of Medical Research and Health Sciences, 2014, 3, 833</i> | | 4 |
| 161 | Dynamic Model of a Jet-Propelled Soft Robot Inspired by the Octopus Mantle. <i>Lecture Notes in Computer Science, 2014, 261-272</i> | 0.9 | 3 |
| 160 | Bipedal Walking of an Octopus-Inspired Robot. <i>Lecture Notes in Computer Science, 2014, 35-46</i> | 0.9 | 12 |
| 159 | Soft robotics: a bioinspired evolution in robotics. <i>Trends in Biotechnology, 2013, 31, 287-94</i> | 15.1 | 1140 |

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|-----|--|-----|-----|
| 158 | Soft Robotics [TC Spotlight]. <i>IEEE Robotics and Automation Magazine</i> , 2013 , 20, 24-95 | 3.4 | 12 |
| 157 | Design and development of a sensorized wireless toy for measuring infants' manual actions. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013 , 21, 444-53 | 4.8 | 8 |
| 156 | Measurements of octopus arm elongation: Evidence of differences by body size and gender. <i>Journal of Experimental Marine Biology and Ecology</i> , 2013 , 447, 160-164 | 2.1 | 14 |
| 155 | Biomimetic Vortex Propulsion: Toward the New Paradigm of Soft Unmanned Underwater Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 484-493 | 5.5 | 43 |
| 154 | A systematic method for dynamic modeling and identification of a small-sized autonomous surface vehicle using simulated annealing techniques 2013 , | | 2 |
| 153 | A Feed Forward Neural Network for Solving the Inverse Kinetics of Non-Constant Curvature Soft Manipulators Driven by Cables 2013 , | | 3 |
| 152 | Analysis of a dielectric EAP as smart component for a neonatal respiratory simulator. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 457-60 | 0.9 | 1 |
| 151 | STIFF-FLOP surgical manipulator: Mechanical design and experimental characterization of the single module 2013 , | | 140 |
| 150 | An elastic pulsed-jet thruster for Soft Unmanned Underwater Vehicles 2013 , | | 8 |
| 149 | A feed-forward neural network learning the inverse kinetics of a soft cable-driven manipulator moving in three-dimensional space 2013 , | | 53 |
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| 30 | A Bio-inspired Neural Sensory-Motor Coordination Scheme for Robot Reaching and Preshaping | 4 |
| 29 | A bio-inspired sensory-motor neural model for a neuro-robotic manipulation platform | 2 |
| 28 | A Bio-inspired Neuro-Controller for an Anthropomorphic Head-Arm Robotic System | 3 |
| 27 | | 4 |
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| 24 | From Robotic Tele-Operation to Tele-Presence through Natural Interfaces | 2 |
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| 8 | Functional compliance in the control of a personal robot | 6 |
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