

# Gastone Ciuti

## 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.

89  
papers

2,091  
citations

24  
h-index

44  
g-index

98  
ext. papers

2,667  
ext. citations

3.6  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
89	Towards Foodservice Robotics: A Taxonomy of Actions of Foodservice Workers and a Critical Review of Supportive Technology. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-39	4.9	1
88	Colonoscopy robots <b>2022</b> , 31-59		
87	Flipping food during grilling tasks, a dataset of utensils kinematics and dynamics, food pose and subject gaze.. <i>Scientific Data</i> , <b>2022</b> , 9, 5	8.2	1
86	Small bowel to closest human body surface distance calculation through a custom-made software using CT-based datasets. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 2903-2909	0.9	
85	An Autonomous Robotic Platform for Manipulation and Inspection of Metallic Surfaces in Industry 4.0. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 1-16	4.9	0
84	Hybrid 6-DoF Magnetic Localization for Robotic Capsule Endoscopes Compatible With High-Grade Magnetic Field Navigation. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	1
83	A Novel Capacitive Measurement Device for Longitudinal Monitoring of Bone Fracture Healing. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
82	Endoluminal Motion Recognition of a Magnetically-Guided Capsule Endoscope Based on Capsule-Tissue Interaction Force. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
81	. <i>IEEE Transactions on Medical Robotics and Bionics</i> , <b>2021</b> , 3, 297-305	3.1	
80	Intraoperative-technologies advancements in automated cancer detection: a narrative review <b>2021</b> ,		1
79	Tether-colon interaction model and tribological characterization for front-wheel driven colonoscopic devices. <i>Tribology International</i> , <b>2021</b> , 156, 106814	4.9	1
78	Endoscopic Tactile Capsule for Non-Polypoid Colorectal Tumour Detection. <i>IEEE Transactions on Medical Robotics and Bionics</i> , <b>2021</b> , 3, 64-73	3.1	1
77	The relevance of signal timing in human-robot collaborative manipulation. <i>Science Robotics</i> , <b>2021</b> , 6, eabg8308	8.3	2
76	Endoscopic single-image size measurements. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 074010	2	4
75	Frontiers of Robotic Colonoscopy: A Comprehensive Review of Robotic Colonoscopes and Technologies. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	35
74	Visual-Based Defect Detection and Classification Approaches for Industrial Applications-A SURVEY. <i>Sensors</i> , <b>2020</b> , 20,	3.8	72
73	Novel Capacitive-Based Sensor Technology for Augmented Proximity Detection. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 6624-6633	4	4

72	Intrinsically Distributed Probabilistic Algorithm for Human-Robot Distance Computation in Collision Avoidance Strategies. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 548	2.6	0
71	Light source position calibration method for photometric stereo in capsule endoscopy. <i>Advanced Robotics</i> , <b>2020</b> , 34, 789-801	1.7	0
70	EXPERIMENTAL ASSESSMENT OF INTACT COLON DEFORMATION UNDER LOCAL FORCES APPLIED BY MAGNETIC CAPSULE ENDOSCOPES. <i>Journal of Mechanics in Medicine and Biology</i> , <b>2020</b> , 20, 2050041	0.7	1
69	Optical and Electromagnetic Tracking Systems for Biomedical Applications: A Critical Review on Potentialities and Limitations. <i>IEEE Reviews in Biomedical Engineering</i> , <b>2020</b> , 13, 212-232	6.4	30
68	Frontiers of Robotic Gastroscopy: A Comprehensive Review of Robotic Gastroscopes and Technologies. <i>Cancers</i> , <b>2020</b> , 12,	6.6	12
67	Robotic-Assisted Colonoscopy Platform with a Magnetically-Actuated Soft-Tethered Capsule. <i>Cancers</i> , <b>2020</b> , 12,	6.6	17
66	Tactile Decoding of Edge Orientation With Artificial Cuneate Neurons in Dynamic Conditions. <i>Frontiers in Neurorobotics</i> , <b>2019</b> , 13, 44	3.4	7
65	A Mechatronic Platform for Computer Aided Detection of Nodules in Anatomopathological Analyses via Stiffness and Ultrasound Measurements. <i>Sensors</i> , <b>2019</b> , 19,	3.8	3
64	Localization strategies for robotic endoscopic capsules: a review. <i>Expert Review of Medical Devices</i> , <b>2019</b> , 16, 381-403	3.5	41
63	Gastrointestinal diagnosis using non-white light imaging capsule endoscopy. <i>Nature Reviews Gastroenterology and Hepatology</i> , <b>2019</b> , 16, 429-447	24.2	23
62	Deep Endoscopic Visual Measurements. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 2211-2219	17	17
61	A Soft Pneumatic Inchworm Double balloon (SPID) for colonoscopy. <i>Scientific Reports</i> , <b>2019</b> , 9, 11109	4.9	23
60	Sensorized Orthosis for Non-Operative Treatment of \$Pectus~Carinatum\$ in Pediatric Patients. <i>IEEE Transactions on Medical Robotics and Bionics</i> , <b>2019</b> , 1, 115-121	3.1	1
59	Effects of Sleep Deprivation on Surgeons Dexterity. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 595	4.1	10
58	A Biomechanical Model of the Shoulder Including Acromioclavicular Joint Ligaments: Preliminary Results. <i>Biosystems and Biorobotics</i> , <b>2019</b> , 642-645	0.2	
57	Assessing Pupil-linked Changes in Locus Coeruleus-mediated Arousal Elicited by Trigeminal Stimulation. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	2
56	Towards a Computed-Aided Diagnosis System in Colonoscopy: Automatic Polyp Segmentation Using Convolution Neural Networks. <i>Journal of Medical Robotics Research</i> , <b>2018</b> , 03, 1840002	1.1	35
55	The role of computed tomography data in the design of a robotic magnetically-guided endoscopic platform. <i>Advanced Robotics</i> , <b>2018</b> , 32, 443-456	1.7	3

54	Soft Robotic Manipulator for Improving Dexterity in Minimally Invasive Surgery. <i>Surgical Innovation</i> , <b>2018</b> , 25, 69-76	2	24
53	Magnetically-driven medical robots: An analytical magnetic model for endoscopic capsules design. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 452, 278-287	2.8	30
52	A structured light laser probe for gastrointestinal polyp size measurement: a preliminary comparative study. <i>Endoscopy International Open</i> , <b>2018</b> , 6, E602-E609	3	8
51	Motion compensation with skin contact control for high intensity focused ultrasound surgery in moving organs. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 035017	3.8	16
50	Fully convolutional neural networks for polyp segmentation in colonoscopy <b>2017</b> ,		26
49	Feedback Control of Soft Robot Actuators via Commercial Flex Bend Sensors. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 1881-1888	5.5	97
48	A compensation strategy for accurate orientation of a tethered robotic capsule endoscope <b>2017</b> ,		3
47	Musculoskeletal injuries in gastrointestinal endoscopists: a systematic review. <i>Expert Review of Gastroenterology and Hepatology</i> , <b>2017</b> , 11, 939-947	4.2	23
46	An artificial neural network architecture for non-parametric visual odometry in wireless capsule endoscopy. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 094005	2	10
45	A novel magnetic-driven tissue retraction device for minimally invasive surgery. <i>Minimally Invasive Therapy and Allied Technologies</i> , <b>2017</b> , 26, 7-14	2.1	7
44	Visual Localization of Wireless Capsule Endoscopes Aided by Artificial Neural Networks <b>2017</b> ,		6
43	Robotic endoscopic capsule for closed-loop force-based control and safety strategies <b>2017</b> ,		2
42	An innovative robotic platform for magnetically-driven painless colonoscopy. <i>Annals of Translational Medicine</i> , <b>2017</b> , 5, 421	3.2	12
41	Scoliosis and Pectus Excavatum in Adolescents: Does the Nuss Procedure Affect the Scoliotic Curvature?. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , <b>2016</b> , 26, 734-9	2.1	3
40	Robotic validation of visual odometry for wireless capsule endoscopy <b>2016</b> ,		4
39	Frictional resistance model for tissue-capsule endoscope sliding contact in the gastrointestinal tract. <i>Tribology International</i> , <b>2016</b> , 102, 472-484	4.9	28
38	Analytical magnetic model applied to endoscopic robots design: A ready-to-use implementation and a case of study <b>2016</b> ,		4
37	Vision-based haptic feedback for capsule endoscopy navigation: a proof of concept. <i>Journal of Micro-Bio Robotics</i> , <b>2016</b> , 11, 35-45	1.4	19

36	A computer-assisted robotic platform for vascular procedures exploiting 3D US-based tracking. <i>Computer Assisted Surgery</i> , <b>2016</b> , 21, 63-79	1.8	5
35	Frontiers of robotic endoscopic capsules: a review. <i>Journal of Micro-Bio Robotics</i> , <b>2016</b> , 11, 1-18	1.4	72
34	MEMS sensor technologies for human centred applications in healthcare, physical activities, safety and environmental sensing: a review on research activities in Italy. <i>Sensors</i> , <b>2015</b> , 15, 6441-68	3.8	88
33	Electromagnetic Control System for Capsule Navigation: Novel Concept for Magnetic Capsule Maneuvering and Preliminary Study. <i>Journal of Medical and Biological Engineering</i> , <b>2015</b> , 35, 428-436	2.2	18
32	Magnetically driven medical devices: a review. <i>Expert Review of Medical Devices</i> , <b>2015</b> , 12, 737-52	3.5	37
31	Modular soft mechatronic manipulator for minimally invasive surgery (MIS): overall architecture and development of a fully integrated soft module. <i>Meccanica</i> , <b>2015</b> , 50, 2865-2878	2.1	44
30	Vision and inertial-based image mapping for capsule endoscopy <b>2015</b> ,		9
29	Design and development of a soft robotic gripper for manipulation in minimally invasive surgery: a proof of concept. <i>Meccanica</i> , <b>2015</b> , 50, 2855-2863	2.1	44
28	A New Concept for Magnetic Capsule Colonoscopy Based on an Electromagnetic System. <i>International Journal of Advanced Robotic Systems</i> , <b>2015</b> , 12, 25	1.4	22
27	A Novel Device for Measuring Forces in Endoluminal Procedures. <i>International Journal of Advanced Robotic Systems</i> , <b>2015</b> , 12, 116	1.4	8
26	Ultrasound-based tracking strategy for endoluminal devices in cardiovascular surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2015</b> , 11, 319-330	2.9	3
25	Inductive-Based Wireless Power Recharging System for an Innovative Endoscopic Capsule. <i>Energies</i> , <b>2015</b> , 8, 10315-10334	3.1	9
24	Smart sensorized polymeric skin for safe robot collision and environmental interaction <b>2015</b> ,		9
23	A computer-assisted robotic platform for Focused Ultrasound Surgery: Assessment of high intensity focused ultrasound delivery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 1311-4	0.9	4
22	HuMOVE: a low-invasive wearable monitoring platform in sexual medicine. <i>Urology</i> , <b>2014</b> , 84, 976-81	1.6	6
21	A sensorized Nuss bar for patient-specific treatment of Pectus Excavatum. <i>Sensors</i> , <b>2014</b> , 14, 18096-113	3.8	2
20	Searching for the perfect wave: the effect of radiofrequency electromagnetic fields on cells. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 5366-87	6.3	53
19	Metal/polymer composite Nuss bar for minimally invasive bar removal after Pectus Excavatum treatment: FEM simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2014</b> , 30, 1530-40	2.6	1

18	Flexible and capsule endoscopy for screening, diagnosis and treatment. <i>Expert Review of Medical Devices</i> , <b>2014</b> , 11, 649-66	3.5	60
17	Is a shorter bar an effective solution to avoid bar dislocation in a Nuss procedure?. <i>Annals of Thoracic Surgery</i> , <b>2014</b> , 97, 1022-7	2.7	16
16	Experimental assessment of a novel robotically-driven endoscopic capsule compared to traditional colonoscopy. <i>Digestive and Liver Disease</i> , <b>2013</b> , 45, 657-62	3.3	42
15	Wireless insufflation of the gastrointestinal tract. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 1225-33	5	35
14	Intraoperative bowel cleansing tool in active locomotion capsule endoscopy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 4843-6	0.9	1
13	A Comparative Evaluation of Control Interfaces for a Robotic-Aided Endoscopic Capsule Platform. <i>IEEE Transactions on Robotics</i> , <b>2012</b> , 28, 534-538	6.5	17
12	Intra-operative monocular 3D reconstruction for image-guided navigation in active locomotion capsule endoscopy <b>2012</b> ,		21
11	A discrete-time localization method for capsule endoscopy based on on-board magnetic sensing. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 015701	2	64
10	A wireless module for vibratory motor control and inertial sensing in capsule endoscopy. <i>Sensors and Actuators A: Physical</i> , <b>2012</b> , 186, 270-276	3.9	15
9	Magnetic propulsion and ultrasound tracking of endovascular devices. <i>Journal of Robotic Surgery</i> , <b>2012</b> , 6, 5-12	2.9	32
8	Magnetic air capsule robotic system: proof of concept of a novel approach for painless colonoscopy. <i>Surgical Endoscopy and Other Interventional Techniques</i> , <b>2012</b> , 26, 1238-46	5.2	61
7	<b>2012</b> ,		5
6	Capsule endoscopy: from current achievements to open challenges. <i>IEEE Reviews in Biomedical Engineering</i> , <b>2011</b> , 4, 59-72	6.4	282
5	A Wireless Module for Vibratory Motor Control and Inertial Sensing in Capsule Endoscopy. <i>Procedia Engineering</i> , <b>2011</b> , 25, 92-95		6
4	Robotic magnetic steering and locomotion of capsule endoscope for diagnostic and surgical endoluminal procedures. <i>Robotica</i> , <b>2010</b> , 28, 199-207	2.1	197
3	Toward tetherless insufflation of the GI Tract. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 1946-9	0.9	8
2	Magnetic link design for a robotic laparoscopic camera. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09B302	2.5	15
1	Robotic versus manual control in magnetic steering of an endoscopic capsule. <i>Endoscopy</i> , <b>2010</b> , 42, 148-524		101

