

Diego Dall'Alba

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	An Electrical Bioimpedance Scanning System for Subsurface Tissue Detection in Robot Assisted Minimally Invasive Surgery. IEEE Transactions on Biomedical Engineering, 2022, 69, 209-219.	2.5	12
2	Distortion and instability compensation with deep learning for rotational scanning endoscopic optical coherence tomography. Medical Image Analysis, 2022, 77, 102355.	7.0	6
3	3D Vision Based Robot Assisted Electrical Impedance Scanning for Soft Tissue Conductivity Sensing. IEEE Robotics and Automation Letters, 2022, 7, 4055-4062.	3.3	2
4	Robot assisted electrical impedance scanning for tissue bioimpedance spectroscopy measurement. Measurement: Journal of the International Measurement Confederation, 2022, 195, 111112.	2.5	4
5	Deliberation in autonomous robotic surgery: a framework for handling anatomical uncertainty. , 2022, , .		4
6	Automatic detection of procedural knowledge in robotic-assisted surgical texts. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1287-1295.	1.7	8
7	Data-Driven Intra-Operative Estimation of Anatomical Attachments for Autonomous Tissue Dissection. IEEE Robotics and Automation Letters, 2021, 6, 1856-1863.	3.3	8
8	Multi-task temporal convolutional networks for joint recognition of surgical phases and steps in gastric bypass procedures. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1111-1119.	1.7	46
9	IVUS-Based Local Vessel Estimation for Robotic Intravascular Navigation. IEEE Robotics and Automation Letters, 2021, 6, 8102-8109.	3.3	3
10	Industrial Time Series Modeling With Causal Precursors and Separable Temporal Convolutions. IEEE Robotics and Automation Letters, 2021, 6, 6939-6946.	3.3	4
11	Data Stream Stabilization for Optical Coherence Tomography Volumetric Scanning. IEEE Transactions on Medical Robotics and Bionics, 2021, , 1-1.	2.1	2
12	Intra-operative Update of Boundary Conditions for Patient-Specific Surgical Simulation. Lecture Notes in Computer Science, 2021, , 373-382.	1.0	6
13	Robot-Assisted Electrical Impedance Scanning system for 2D Electrical Impedance Tomography tissue inspection. , 2021, 2021, 3729-3733.		1
14	Autonomous tissue retraction with a biomechanically informed logic based framework. , 2021, , .		7
15	Causal interaction modeling on ultra-processed food manufacturing. , 2020, , .		4
16	Biomechanical modelling of probe to tissue interaction during ultrasound scanning. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1379-1387.	1.7	7
17	Physics-Based Deep Neural Network for Real-Time Lesion Tracking in Ultrasound-Guided Breast Biopsy. , 2020, , 33-45.		10
18	Design and Integration of Electrical Bio-Impedance Sensing in a Bipolar Forceps for Soft Tissue Identification: A Feasibility Study. IFMBE Proceedings, 2020, , 3-10.	0.2	6

#	ARTICLE	IF	CITATIONS
19	Soft Tissue Simulation Environment to Learn Manipulation Tasks in Autonomous Robotic Surgery. , 2020, , .		30
20	Design and Integration of Electrical Bio-impedance Sensing in Surgical Robotic Tools for Tissue Identification and Display. Frontiers in Robotics and AI, 2019, 6, 55.	2.0	20
21	Position-based modeling of lesion displacement in ultrasound-guided breast biopsy. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1329-1339.	1.7	12
22	Surgical gesture recognition with time delay neural network based on kinematic data. , 2019, , .		11
23	Automatic process modeling with time delay neural network based on low-level data.. Procedia Manufacturing, 2019, 38, 125-132.	1.9	3
24	Dynamic Movement Primitives: Volumetric Obstacle Avoidance. , 2019, , .		22
25	Iterative simulations to estimate the elastic properties from a series of MRI images followed by MRI-US validation. Medical and Biological Engineering and Computing, 2019, 57, 913-924.	1.6	7
26	Soft Robotic Manipulator for Improving Dexterity in Minimally Invasive Surgery. Surgical Innovation, 2018, 25, 69-76.	0.4	40
27	Analytical derivation of elasticity in breast phantoms for deformation tracking. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1641-1650.	1.7	5
28	Cost Effective Quality Assessment in Industrial Parts Manufacturing via Optical Acquisition. Procedia Manufacturing, 2017, 11, 1207-1214.	1.9	3
29	ViTAS Gaming Suite: Virtual Therapy Against Stroke. Biosystems and Biorobotics, 2017, , 407-411.	0.2	3
30	Robust Real-Time Needle Tracking in 2-D Ultrasound Images Using Statistical Filtering. IEEE Transactions on Control Systems Technology, 2017, 25, 966-978.	3.2	23
31	Role of virtual simulation in surgical training. Journal of Visualized Surgery, 2017, 3, 23-23.	0.2	6
32	BIPCO: ultrasound feature points based on phase congruency detector and binary pattern descriptor. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 843-854.	1.7	3
33	Real-time biopsy needle tip estimation in 2D ultrasound images. , 2013, , .		12
34	A compact navigation system for free hand needle placement in percutaneous procedures. , 2012, , .		1