

Ryosuke Tsumura

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

185
citations

1307594

7
h-index

1372567

10
g-index

33
all docs

33
docs citations

33
times ranked

86
citing authors

#	ARTICLE	IF	CITATIONS
1	Robotic fetal ultrasonography platform with a passive scan mechanism. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1323-1333.	2.8	32
2	Tele-Operative Low-Cost Robotic Lung Ultrasound Scanning Platform for Triage of COVID-19 Patients. IEEE Robotics and Automation Letters, 2021, 6, 4664-4671.	5.1	24
3	Preoperative Needle Insertion Path Planning for Minimizing Deflection in Multilayered Tissues. IEEE Robotics and Automation Letters, 2018, 3, 2129-2136.	5.1	21
4	Histological evaluation of tissue damage caused by rotational needle insertion. , 2016, 2016, 5120-5123.		15
5	Trajectory Planning for Abdominal Fine Needle Insertion Based on Insertion Angles. IEEE Robotics and Automation Letters, 2017, 2, 1226-1231.	5.1	13
6	Acoustic-resolution photoacoustic microscope based on compact and low-cost delta configuration actuator. Ultrasonics, 2022, 118, 106549.	3.9	12
7	Needle Insertion Control Method for Minimizing Both Deflection and Tissue Damage. Journal of Medical Robotics Research, 2019, 04, 1842005.	1.2	9
8	Development of ultrasonography assistance robot for prenatal care. , 2020, , .		9
9	Methods of control for minimizing extra-fine needle deflection with a combination of vibration and rotation in the lower abdomen. Journal of Biomechanical Science and Engineering, 2017, 12, 16-00468-16-00468.	0.3	7
10	Insertion method for minimizing fine needle deflection in bowel insertion based on experimental analysis. , 2017, , .		6
11	Fine needle insertion method for minimising deflection in lower abdomen: In vivo evaluation. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, 1-12.	2.3	6
12	Ring-arrayed forward-viewing ultrasound imaging system: a feasibility study. , 2020, 11319, .		5
13	Actuated Reflector-Based 3-D Ultrasound Imaging With Synthetic Aperture Focusing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 2437-2446.	3.0	5
14	Development of a Needle Deflection Detection System for a CT Guided Robot. , 2020, , .		3
15	Forward-Viewing Ultrasound Imaging with Concentric-Ring Arrays for Registration-Free Needle Intervention. , 2020, , .		3
16	Mirror-integrated ultrasound image-guided access. , 2022, , .		3
17	Novel Social Innovation Concept Based on the Viewpoint of the Infrastructure User. , 2015, , .		2
18	Needle Insertion Path Planning System for Lower Abdominal Insertion Based on CT Images. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	Reflector-based Transrectal 3D Ultrasound Imaging System for Transperineal Needle Intervention. , 2020, , .		2
20	Heart Position Estimation based on Bone Distribution toward Autonomous Robotic Fetal Ultrasonography. , 2021, , .		2
21	Objective evaluation of oral presentation skills using Inertial Measurement Units. , 2015, 2015, 3117-20.		1
22	Development of registration marker for CT-guided needle insertion robot. , 2017, , .		1
23	Mechanical-Based Model for Extra-Fine Needle Tip Deflection Until Breaching of Tissue Surface. Journal of Medical and Biological Engineering, 2018, 38, 697-706.	1.8	1
24	Quantitative Evaluation of Bleeding during Blood Vessel Puncture Caused by Fine Needle in Lower Abdomen*. , 2019, 2019, 5862-5866.		1
25	Inverse Innovation: Ripple Railway Model to Acquire Local Industries Based on User's Viewpoint in Thailand. , 2017, , .		0
26	Robot-to-image Registration with Geometric Marker for CT-guided Robotic Needle Insertion. , 2021, , .		0
27	3P1-D03 Development of a CT-guided Needle Insertion Robot with Extra Fine Needle : Reducing of Needle Deflection on Complex Tissue(Medical Robotics and Mechatronics (2)). The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2014, 2014, _3P1-D03_1- _3P1-D03_2.	0.0	0
28	The Proposal of Spiral Ascending Scanning Method for Pregnant Woman Ultrasound Support Robot, Built through the Analyzation of Mechanism of Contact Point of It. Journal of the Robotics Society of Japan, 2020, 38, 667-674.	0.1	0
29	Anatomical Feature-Based Lung Ultrasound Image Quality Assessment Using Deep Convolutional Neural Network. , 2021, , .		0
30	Compact and Low-Cost Acoustic-Resolution Photoacoustic Microscopy Based on Delta Configuration Actuator. , 2020, , .		0
31	Estimation of Fetal Position and Orientation based on Skeletal Distribution with Robotic Ultrasonography. , 2020, , .		0
32	Intermittent Insertion Control Method with Fine Needle for Adapting Lung Deformation due to Breathing Motion. , 2020, , .		0
33	Robotic Cytology using Extra-Fine Needles : -Proposal of Puncture Control Strategy for Increasing Collection Amount-. , 2021, 2021, 1452-1456.		0