

Takahisa Kato

List of Publications by Year in descending order

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15
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353
citing authors

#	ARTICLE	IF	CITATIONS
1	Tendon-Driven Continuum Robot for Endoscopic Surgery: Preclinical Development and Validation of a Tension Propagation Model. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2252-2263.	5.8	90
2	Tendon-driven continuum robot for neuroendoscopy: validation of extended kinematic mapping for hysteresis operation. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 589-602.	2.8	56
3	Continuum Robot With Follow-the-Leader Motion for Endoscopic Third Ventriculostomy and Tumor Biopsy. IEEE Transactions on Biomedical Engineering, 2020, 67, 379-390.	4.2	44
4	Body-mounted robotic instrument guide for image-guided cryotherapy of renal cancer. Medical Physics, 2016, 43, 843-853.	3.0	22
5	Transbronchial biopsy catheter enhanced by a multisection continuum robot with follow-the-leader motion. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 2021-2029.	2.8	22
6	A novel four-wire-driven robotic catheter for radio-frequency ablation treatment. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 867-874.	2.8	13
7	Extended kinematic mapping of tendon-driven continuum robot for neuroendoscopy. , 2014, , .		11
8	Multi-section Continuum Robot for Endoscopic Surgical Clipping of Intracranial Aneurysms. Lecture Notes in Computer Science, 2013, 16, 364-371.	1.3	11
9	Robotized Catheter With Enhanced Distal Targeting for Peripheral Pulmonary Biopsy. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2451-2461.	5.8	9
10	Motion compensation for MRI-compatible patient-mounted needle guide device: estimation of targeting accuracy in MRI-guided kidney cryoablations. Physics in Medicine and Biology, 2018, 63, 085010.	3.0	8
11	Technical Validation of Multi-Section Robotic Bronchoscope With First Person View Control for Transbronchial Biopsies of Peripheral Lung. IEEE Transactions on Biomedical Engineering, 2021, 68, 3534-3542.	4.2	7
12	Using needle orientation sensing as surrogate signal for respiratory motion estimation in percutaneous interventions. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 125-133.	2.8	6
13	Simulated accuracy assessment of small footprint body-mounted probe alignment device for MRI-guided cryotherapy of abdominal lesions. Medical Physics, 2020, 47, 2337-2349.	3.0	2
14	Development and evaluation of optical needle depth sensor for percutaneous diagnosis and therapies. , 2014, , .		1
15	Disposable patient-mounted geared robot for image-guided needle insertion. , 2016, , .		0