

# Nobuhiko Hata

## List of Publications by Citations

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155  
papers

4,150  
citations

34  
h-index

61  
g-index

174  
ext. papers

4,734  
ext. citations

3.6  
avg. IF

4.84  
L-index

#	Paper	IF	Citations
155	Serial intraoperative magnetic resonance imaging of brain shift. <i>Neurosurgery</i> , <b>2001</b> , 48, 787-97; discussion 797-8	3.2	308
154	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. <i>Neurosurgery</i> , <b>2001</b> , 48, 787-798	3.2	245
153	MRI-Compatible Pneumatic Robot for Transperineal Prostate Needle Placement. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2008</b> , 13, 295-305	5.5	201
152	OpenIGTLink: an open network protocol for image-guided therapy environment. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2009</b> , 5, 423-34	2.9	198
151	Evaluation of three-dimensional finite element-based deformable registration of pre- and intraoperative prostate imaging. <i>Medical Physics</i> , <b>2001</b> , 28, 2551-60	4.4	183
150	High-quality integral videography using a multiprojector. <i>Optics Express</i> , <b>2004</b> , 12, 1067-76	3.3	133
149	An integrated system for planning, navigation and robotic assistance for skull base surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2008</b> , 4, 321-30	2.9	107
148	MR imaging-guided prostate biopsy with surgical navigation software: device validation and feasibility. <i>Radiology</i> , <b>2001</b> , 220, 263-8	20.5	107
147	Development of a frameless and armless stereotactic neuronavigation system with ultrasonographic registration. <i>Neurosurgery</i> , <b>1997</b> , 41, 608-13; discussion 613-4	3.2	92
146	Piezoelectrically Actuated Robotic System for MRI-Guided Prostate Percutaneous Therapy. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1920-1932	5.5	76
145	Monitoring and visualization techniques for MR-guided laser ablations in an open MR system. <i>Journal of Magnetic Resonance Imaging</i> , <b>1998</b> , 8, 933-43	5.6	74
144	Surgical navigation by autostereoscopic image overlay of integral videography. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2004</b> , 8, 114-21		70
143	Development of a Frameless and Armless Stereotactic Neuronavigation System with Ultrasonographic Registration. <i>Neurosurgery</i> , <b>1997</b> , 41, 608-614	3.2	70
142	MRI driven magnetic microswimmers. <i>Biomedical Microdevices</i> , <b>2012</b> , 14, 165-78	3.7	68
141	Transperineal in-bore 3-T MR imaging-guided prostate biopsy: a prospective clinical observational study. <i>Radiology</i> , <b>2015</b> , 274, 170-80	20.5	65
140	Transperineal prostate biopsy under magnetic resonance image guidance: a needle placement accuracy study. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 26, 688-94	5.6	65
139	MR Compatible Surgical Assist Robot: System Integration and Preliminary Feasibility Study. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 921-930	0.9	62

138	Tendon-Driven Continuum Robot for Endoscopic Surgery: Preclinical Development and Validation of a Tension Propagation Model. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 2252-2263	5.5	60
137	MR-guided prostate interventions. <i>Journal of Magnetic Resonance Imaging</i> , <b>2008</b> , 27, 356-67	5.6	55
136	Integrated navigation and control software system for MRI-guided robotic prostate interventions. <i>Computerized Medical Imaging and Graphics</i> , <b>2010</b> , 34, 3-8	7.6	51
135	Quantitative MR imaging assessment of prostate gland deformation before and during MR imaging-guided brachytherapy. <i>Academic Radiology</i> , <b>2002</b> , 9, 906-12	4.3	49
134	Three-dimensional optical flow method for measurement of volumetric brain deformation from intraoperative MR images. <i>Journal of Computer Assisted Tomography</i> , <b>2000</b> , 24, 531-8	2.2	48
133	3T MR-guided in-bore transperineal prostate biopsy: A comparison of robotic and manual needle-guidance templates. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 42, 63-71	5.6	47
132	Image registration for targeted MRI-guided transperineal prostate biopsy. <i>Journal of Magnetic Resonance Imaging</i> , <b>2012</b> , 36, 987-92	5.6	46
131	MRI signal intensity based B-spline nonrigid registration for pre- and intraoperative imaging during prostate brachytherapy. <i>Journal of Magnetic Resonance Imaging</i> , <b>2009</b> , 30, 1052-8	5.6	42
130	Feasibility of transperineal prostate biopsy under interventional magnetic resonance guidance. <i>Urology</i> , <b>2000</b> , 56, 663-4	1.6	42
129	Tendon-driven continuum robot for neuroendoscopy: validation of extended kinematic mapping for hysteresis operation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2016</b> , 11, 589-602	3.9	41
128	Multimodality non-rigid image registration for planning, targeting and monitoring during CT-guided percutaneous liver tumor cryoablation. <i>Academic Radiology</i> , <b>2010</b> , 17, 1334-44	4.3	38
127	In-bore setup and software for 3T MRI-guided transperineal prostate biopsy. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 5823-40	3.8	38
126	Fiber Optic Force Sensors for MRI-Guided Interventions and Rehabilitation: A Review. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 1952-1963	4	36
125	MRI-compatible manipulator with remote-center-of-motion control. <i>Journal of Magnetic Resonance Imaging</i> , <b>2008</b> , 27, 1130-8	5.6	36
124	In-bore prostate transperineal interventions with an MRI-guided parallel manipulator: system development and preliminary evaluation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2016</b> , 12, 199-213	2.9	36
123	Intraoperative real-time querying of white matter tracts during frameless stereotactic neuronavigation. <i>Neurosurgery</i> , <b>2011</b> , 68, 506-16; discussion 516	3.2	35
122	Dynamic imaging of swallowing in a seated position using open-configuration MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2007</b> , 26, 172-6	5.6	34
121	Development and preliminary evaluation of a motorized needle guide template for MRI-guided targeted prostate biopsy. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 3019-27	5	32

120	Challenges in image-guided therapy system design. <i>NeuroImage</i> , <b>2007</b> , 37 Suppl 1, S144-51	7.9	32
119	Preclinical evaluation of an MRI-compatible pneumatic robot for angulated needle placement in transperineal prostate interventions. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2012</b> , 7, 949-57	3.9	31
118	Scalable high-resolution integral videography autostereoscopic display with a seamless multiprojection system. <i>Applied Optics</i> , <b>2005</b> , 44, 305-15	1.7	31
117	New assistive devices for MR-guided microwave thermocoagulation of liver tumors. <i>Academic Radiology</i> , <b>2003</b> , 10, 180-8	4.3	31
116	Accuracy study of a robotic system for MRI-guided prostate needle placement. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2013</b> , 9, 305-16	2.9	30
115	Lung motion and volume measurement by dynamic 3D MRI using a 128-channel receiver coil. <i>Academic Radiology</i> , <b>2009</b> , 16, 22-7	4.3	30
114	Treatment planning and image guidance for radiofrequency ablation of large tumors. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 920-8	7.2	29
113	Advanced computer assistance for magnetic resonance-guided microwave thermocoagulation of liver tumors. <i>Academic Radiology</i> , <b>2003</b> , 10, 1442-9	4.3	29
112	Image-guided neurosurgery at Brigham and Women's Hospital. <i>IEEE Engineering in Medicine and Biology Magazine</i> , <b>2006</b> , 25, 67-73		27
111	Computer-based imaging and interventional MRI: applications for neurosurgery. <i>Computerized Medical Imaging and Graphics</i> , <b>1999</b> , 23, 245-58	7.6	25
110	Computer-assisted intra-operative magnetic resonance imaging monitoring of interstitial laser therapy in the brain: a case report. <i>Journal of Biomedical Optics</i> , <b>1998</b> , 3, 304-11	3.5	24
109	Flagellar swimming for medical micro robots: Theory, experiments and application <b>2008</b> ,		23
108	Magnetic resonance-guided prostate interventions. <i>Topics in Magnetic Resonance Imaging</i> , <b>2005</b> , 16, 355-68		23
107	Continuum Robot With Follow-the-Leader Motion for Endoscopic Third Ventriculostomy and Tumor Biopsy. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 379-390	5	23
106	A workspace-orientated needle-guiding robot for 3T MRI-guided transperineal prostate intervention: evaluation of in-bore workspace and MRI compatibility. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2013</b> , 9, 67-74	2.9	20
105	Robot-assisted needle placement in open MRI: System architecture, integration and validation. <i>Computer Aided Surgery</i> , <b>2007</b> , 12, 15-24		20
104	Swimming capsule endoscope using static and RF magnetic field of MRI for propulsion <b>2008</b> ,		19
103	Three-dimensional display with a long viewing distance by use of integral photography. <i>Optics Letters</i> , <b>2005</b> , 30, 613-5	3	19

102	Handheld Laparoscopic Forceps Manipulator Using Multi-slider Linkage Mechanisms. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 121-128	0.9	19
101	Body-mounted robotic instrument guide for image-guided cryotherapy of renal cancer. <i>Medical Physics</i> , <b>2016</b> , 43, 843-53	4.4	18
100	System Integration and Preliminary Clinical Evaluation of a Robotic System for MRI-Guided Transperineal Prostate Biopsy. <i>Journal of Medical Robotics Research</i> , <b>2019</b> , 4,	1.1	18
99	Image registration of pre-procedural MRI and intra-procedural CT images to aid CT-guided percutaneous cryoablation of renal tumors. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2011</b> , 6, 111-7	3.9	17
98	An image-guided stereotactic system for neurosurgical operations. <i>Stereotactic and Functional Neurosurgery</i> , <b>1994</b> , 63, 130-8	1.6	17
97	Preliminary clinical experiences of a motorized manipulator for magnetic resonance image-guided microwave coagulation therapy of liver tumors. <i>American Journal of Surgery</i> , <b>2009</b> , 198, 340-7	2.7	16
96	Three-dimensional volume rendering of fetal MR images for the diagnosis of congenital cystic adenomatoid malformation. <i>Academic Radiology</i> , <b>2003</b> , 10, 309-12	4.3	16
95	Configurable automatic detection and registration of fiducial frames for device-to-image registration in MRI-guided prostate interventions. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 355-62	0.9	16
94	Closed-Loop Active Compensation for Needle Deflection and Target Shift During Cooperatively Controlled Robotic Needle Insertion. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 1582-1594	4.7	16
93	A Volumetric Optical Flow Method for Measurement of Brain Deformation from Intraoperative Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 928-935	0.9	16
92	Impact of nonrigid motion correction technique on pixel-wise pharmacokinetic analysis of free-breathing pulmonary dynamic contrast-enhanced MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 33, 968-73	5.6	15
91	Three-dimensional quantitative assessment of ablation margins based on registration of pre- and post-procedural MRI and distance map. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2016</b> , 11, 1133-42	3.9	14
90	Pneumatically Operated MRI-Compatible Needle Placement Robot for Prostate Interventions. <i>IEEE International Conference on Robotics and Automation: ICRA: [proceedings]</i> , <b>2008</b> , 2008, 2489-2495	2.2	14
89	Towards Clinically Optimized MRI-guided Surgical Manipulator for Minimally Invasive Prostate Percutaneous Interventions: Constructive Design. <i>IEEE International Conference on Robotics and Automation: ICRA: [proceedings]</i> , <b>2013</b> , 20132, 1228-1233	2.2	13
88	A Fully Actuated Robotic Assistant for MRI-Guided Prostate Biopsy and Brachytherapy. <i>Proceedings of SPIE</i> , <b>2013</b> , 8671, 867117	1.7	12
87	Design considerations for a computer-vision-enabled ophthalmic augmented reality environment. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 399-408	0.9	12
86	Motion tracking in MR-guided liver therapy by using navigator echoes and projection profile matching. <i>Academic Radiology</i> , <b>2004</b> , 11, 111-20	4.3	12
85	Robotics in MRI-Guided Interventions. <i>Topics in Magnetic Resonance Imaging</i> , <b>2018</b> , 27, 19-23	2.3	11

84	A novel four-wire-driven robotic catheter for radio-frequency ablation treatment. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2014</b> , 9, 867-74	3.9	11
83	Design evaluation of a double ring RCM mechanism for robotic needle guidance in MRI-guided liver interventions <b>2013</b> ,		11
82	Intraoperative tumor segmentation and volume measurement in MRI-guided glioma surgery for tumor resection rate control. <i>Academic Radiology</i> , <b>2005</b> , 12, 116-22	4.3	11
81	Graphics Processing Unit-Accelerated Nonrigid Registration of MR Images to CT Images During CT-Guided Percutaneous Liver Tumor Ablations. <i>Academic Radiology</i> , <b>2015</b> , 22, 722-33	4.3	10
80	Quantitative evaluation of angular measurements on plain radiographs in patients with slipped capital femoral epiphysis: a 3-dimensional analysis of computed tomography-based computer models of 46 femora. <i>Journal of Pediatric Orthopaedics</i> , <b>2008</b> , 28, 291-6	2.4	10
79	Surface rendering-based virtual intraventricular endoscopy: retrospective feasibility study and comparison to volume rendering-based approach. <i>NeuroImage</i> , <b>2007</b> , 37 Suppl 1, S89-99	7.9	10
78	A Motion Adaptable Needle Placement Instrument Based on Tumor Specific Ultrasonic Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 122-129	0.9	10
77	Real-time magnetic resonance imaging driven by electromagnetic locator for interventional procedure and endoscopic therapy. <i>Surgical Endoscopy and Other Interventional Techniques</i> , <b>2008</b> , 22, 552-6	5.2	9
76	Non-gated fetal MRI of umbilical blood flow in an acardiac twin. <i>Pediatric Radiology</i> , <b>2005</b> , 35, 826-9	2.8	9
75	High Quality Autostereoscopic Surgical Display Using Anti-aliased Integral Videography Imaging. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 462-469	0.9	9
74	OpenIGTLink interface for state control and visualisation of a robot for image-guided therapy systems. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2015</b> , 10, 285-92	3.9	8
73	Transbronchial biopsy catheter enhanced by a multisection continuum robot with follow-the-leader motion. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2019</b> , 14, 2021-2029	3.9	8
72	Magnetic targeting of aggregated nanoparticles for advanced lung therapies: A robotics approach <b>2010</b> ,		8
71	Three-dimensional computed tomography for planning urologic surgery. <i>Urologic Clinics of North America</i> , <b>1998</b> , 25, 103-11	2.9	8
70	High-field MRI-compatible needle placement robot for prostate interventions. <i>Studies in Health Technology and Informatics</i> , <b>2011</b> , 163, 623-9	0.5	8
69	Needle Guiding Robot with Five-Bar Linkage for MR-Guided Thermotherapy of Liver Tumor. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 161-168	0.9	8
68	Software strategy for robotic transperineal prostate therapy in closed-bore MRI. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 701-9	0.9	8
67	Multi-section continuum robot for endoscopic surgical clipping of intracranial aneurysms. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 364-71	0.9	8

66	Assessment of the OsteoMark-Navigation System for Oral and Maxillofacial Surgery. <i>Journal of Oral and Maxillofacial Surgery</i> , <b>2015</b> , 73, 2005-16	1.8	7
65	Motion compensation for MRI-compatible patient-mounted needle guide device: estimation of targeting accuracy in MRI-guided kidney cryoablations. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 085010 <sup>3.8</sup>	3.8	7
64	Extended kinematic mapping of tendon-driven continuum robot for neuroendoscopy <b>2014</b> ,		7
63	Preliminary Evaluation of a MRI-compatible Modular Robotic System for MRI-guided Prostate Interventions <b>2010</b> , 2010, 796-801	2.3	7
62	Open core control software for surgical robots. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2010</b> , 5, 211-20	3.9	7
61	Image guided microscopic surgery system using mutual-information based registration. <i>Lecture Notes in Computer Science</i> , <b>1996</b> , 317-326	0.9	7
60	Distributed Modular Computer-Integrated Surgical Robotic Systems: Architecture for Intelligent Object Distribution. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 979-987	0.9	7
59	Interfacing proprietary hardware with the image-guided surgery toolkit (IGSTK): a case for the OpenIGTLink protocol <b>2009</b> ,		5
58	Distance measurement in middle ear surgery using a telemanipulator. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 41-8	0.9	5
57	Evaluation of robot-assisted MRI-guided prostate biopsy: needle path analysis during clinical trials. <i>Physics in Medicine and Biology</i> , <b>2018</b> , 63, 20NT02	3.8	5
56	High-Resolution Stereoscopic Surgical Display Using Parallel Integral Videography and Multi-projector. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 85-92	0.9	5
55	The Effects of Young's Modulus on Predicting Prostate Deformation for MRI-Guided Interventions <b>2011</b> , 39-49		4
54	A device guidance method for organ motion compensation in MRI-guided therapy. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 6427-38	3.8	4
53	An Autostereoscopic Display System for Image-Guided Surgery Using High-Quality Integral Videography with High Performance Computing. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 247-255	0.9	4
52	Distributed Modular Computer-Integrated Surgical Robotic Systems: Implementation Using Modular Software and Networked Systems. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 969-978	0.9	4
51	Intra-operative multimodal non-rigid registration of the liver for navigated tumor ablation. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 837-44	0.9	4
50	Integrated system for Robot-Assisted in Prostate Biopsy in closed MRI Scanner <b>2008</b> ,		3
49	Robotized Catheter with Enhanced Distal Targeting for Peripheral Pulmonary Biopsy. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 1-1	5.5	3

48	Application of open source image guided therapy software in MR-guided therapies <b>2007</b> , 10, 491-8		3
47	Visually Navigated Bronchoscopy using three cycle-Consistent generative adversarial network for depth estimation. <i>Medical Image Analysis</i> , <b>2021</b> , 73, 102164	15.4	3
46	A cooperatively-controlled image guided robot system for skull base surgery. <i>Studies in Health Technology and Informatics</i> , <b>2008</b> , 132, 198-203	0.5	3
45	Development and validation of a real-time reduced field of view imaging driven by automated needle detection for MRI-guided interventions <b>2010</b> ,		2
44	Real-time organ motion tracking and fast image registration system for MRI-guided surgery. <i>Systems and Computers in Japan</i> , <b>2006</b> , 37, 83-92		2
43	A Transurethral Prostate Resection Manipulator for Minimal Damage to Mucous Membrane. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 149-156	0.9	2
42	Navigation system for ACL reconstruction using registration between multi-viewpoint X-ray images and CT images. <i>International Congress Series</i> , <b>2004</b> , 1268, 498-502		2
41	Laparoscopic Forceps Manipulator with Multi-Slider Linkage Mechanisms. <i>Journal of Life Support Engineering</i> , <b>2004</b> , 16, 233-234	0	2
40	Using needle orientation sensing as surrogate signal for respiratory motion estimation in percutaneous interventions. <i>International Journal of Computer Assisted Radiology and Surgery</i> , <b>2018</b> , 13, 125-133	3.9	2
39	Projection Profile Matching for Intraoperative MRI Registration Embedded in MR Imaging Sequence. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 164-169	0.9	2
38	Simulated accuracy assessment of small footprint body-mounted probe alignment device for MRI-guided cryotherapy of abdominal lesions. <i>Medical Physics</i> , <b>2020</b> , 47, 2337-2349	4.4	1
37	Development and evaluation of optical needle depth sensor for percutaneous diagnosis and therapies <b>2014</b> ,		1
36	Development and preliminary evaluation of an ultrasonic motor actuated needle guide for 3T MRI-guided transperineal prostate interventions <b>2012</b> ,		1
35	A networked modular hardware and software system for MRI-guided robotic prostate interventions <b>2012</b> ,		1
34	Navigation Needs in Transluminal Endoscopic Surgery. <i>Journal of Japan Society of Computer Aided Surgery</i> , <b>2007</b> , 9, 85-89	0.1	1
33	Integral videography autostereoscopic display using multiprojection. <i>Systems and Computers in Japan</i> , <b>2006</b> , 37, 34-45		1
32	Integration of Projection Profile Matching into Clinical MR Scanner System for Real-Time Organ Tracking and Image Registration. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 311-318	0.9	1
31	Control System for MR-Guided Cryotherapy [Short-Term Prediction of Therapy Boundary Using Automatic Segmentation and 3D Optical Flow] <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 542-550	0.9	1



30	An open-source real-time ultrasound reconstruction system for four-dimensional imaging of moving organs <b>2009</b> ,		1
29	Ultra-fast image registration embedded in intraoperative MR imaging <b>2002</b> , 69-73		1
28	System Design for Implementing Distributed Modular Architecture to Reliable Surgical Robotic System. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 184-191	0.9	1
27	Integral Videography Overlay Navigation System Using Mutual Information-Based Registration. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 361-368	0.9	1
26	Multi-slider linkage mechanism for endoscopic manipulator <b>2002</b> , 1086-1086		1
25	Three-Dimensional Image-Guided Navigation with Overlaid Three-Dimensional Image (Volumegraph) and Volumetric Ultrasonogram (V-US) <b>1997</b> , 123-130		1
24	Technical Validation of Multi-Section Robotic Bronchoscope With First Person View Control for Transbronchial Biopsies of Peripheral Lung. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 3534-3542	5	0
23	Nonrigid Registration of Pre-Procedural MRI and Intra-Procedural CT in CT-Guided Cryoablation of Lung Tumors to Improve Lung Tumor Conspicuity. <i>Journal of Medical Robotics Research</i> , <b>2016</b> , 01, 1650004	1	1
22	High performance computing for parallel rendering in surgical autostereoscopic display and navigation. <i>International Congress Series</i> , <b>2003</b> , 1256, 403-407		
21	Real-time monitoring and analysis of MR-guided laser ablation in an open-configuration MR system <b>1998</b> , 3245, 98		
20	Robotic System for Less Invasive Abdominal Surgery <b>2007</b> , 129-139		
19	Rapid Quality Assessment of Nonrigid Image Registration Based on Supervised Learning. <i>Journal of Digital Imaging</i> , <b>2021</b> , 34, 1376		5.3
18	A Stem Cell Harvesting Manipulator with Flexible Drilling Unit for Bone Marrow Transplantation. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 192-199	0.9	
17	Development and Evaluation of Equipment for Transfer of a Patient between Bed and Stretcher. <i>The Proceedings of the JSME Symposium on Welfare Engineering</i> , <b>2003</b> , 2003.3, 121-123		
16	Surgical Image Overlay System Using Autostereoscopic Display. <i>Journal of Life Support Engineering</i> , <b>2004</b> , 16, 127-128		0
15	Validation of Fast Organ Tracking and Image Registration for MRI-Guided Surgery. <i>Journal of Life Support Engineering</i> , <b>2004</b> , 16, 231-232		0
14	Development of Extracorporeal Shock Wave Osteotomy Using Focused Ultrasound. <i>Journal of Life Support Engineering</i> , <b>2004</b> , 16, 129-130		0
13	Needle Insertion Path Decision by Visual Servo Control. <i>Journal of Life Support Engineering</i> , <b>2004</b> , 16, 243-244		0

- 12 Development of the welfare ssystem with controle robot arm by cellphone. *Journal of Life Support Engineering*, **2004**, 16, 79-80 ○
- 11 PC-MRA method for fetus using MR compatible ultrasound probe. *Journal of Life Support Engineering*, **2004**, 16, 307-308 ○
- 10 A Navigation and Robot System for Anterior Cruciate Ligament Reconstruction Surgery. *Journal of Life Support Engineering*, **2004**, 16, 125-126 ○
- 9 Magnetic Resonance Image-Guided Neurosurgery **2008**, 205-215
- 8 Magnetic Resonance Image Guided Neurosurgery **2008**, 171-180
- 7 1A1-C20 Development of the Open Control Software for Surgical Robots. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2008**, 2008, \_1A1-C20\_1-\_1A1-C20\_2 ○
- 6 In-Bore Experimental Validation of Active Compensation and Membrane Puncture Detection for Targeted MRI-Guided Robotic Prostate Biopsy. *Springer Proceedings in Advanced Robotics*, **2020**, 34-44 ○.6
- 5 Intraoperative image-guided stereotactic surgery. Ultrasound computed tomography(US-CT) for neurosurgical procedures.. *Neurosonology*, **1996**, 9, 124-128 ○.1
- 4 2A1-K10 Application of Virtual Fixture on a Neurosurgical Master Slave System. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2009**, 2009, \_2A1-K10\_1-\_2A1-K10\_2 ○
- 3 Image-Guided Robotics in Minimally Invasive Therapies **2014**, 439-447
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