Nobuhiko Hata

List of Publications by Year in Descending Order

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	Guest Editorial Special Section on Surgical Vision, Navigation, and Robotics. *IEEE Transactions on Medical Robotics and Bionics*, **2022**, 4, 2-4	3.1	
154	Rapid Quality Assessment of Nonrigid Image Registration Based on Supervised Learning. *Journal of Digital Imaging*, **2021**, 34, 1376	5.3	
153	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	5	0
152	Visually Navigated Bronchoscopy using three cycle-Consistent generative adversarial network for depth estimation. *Medical Image Analysis*, **2021**, 73, 102164	15.4	3
151	Simulated accuracy assessment of small footprint body-mounted probe alignment device for MRI-guided cryotherapy of abdominal lesions. *Medical Physics*, **2020**, 47, 2337-2349	4.4	1
150	Robotized Catheter with Enhanced Distal Targeting for Peripheral Pulmonary Biopsy. *IEEE/ASME Transactions on Mechatronics*, **2020**, 1-1	5.5	3
149	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	0.6	
148	Continuum Robot With Follow-the-Leader Motion for Endoscopic Third Ventriculostomy and Tumor Biopsy. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 379-390	5	23
147	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	3.9	8
146	System Integration and Preliminary Clinical Evaluation of a Robotic System for MRI-Guided Transperineal Prostate Biopsy. *Journal of Medical Robotics Research*, **2019**, 4,	1.1	18
145	Robotics in MRI-Guided Interventions. *Topics in Magnetic Resonance Imaging*, **2018**, 27, 19-23	2.3	11
144	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	3.8	7
143	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	3.9	2
142	Evaluation of robot-assisted MRI-guided prostate biopsy: needle path analysis during clinical trials. *Physics in Medicine and Biology*, **2018**, 63, 20NT02	3.8	5
141	Closed-Loop Active Compensation for Needle Deflection and Target Shift During Cooperatively Controlled Robotic Needle Insertion. *Annals of Biomedical Engineering*, **2018**, 46, 1582-1594	4.7	16
140	Fiber Optic Force Sensors for MRI-Guided Interventions and Rehabilitation: A Review. *IEEE Sensors Journal*, **2017**, 17, 1952-1963	4	36
139	Nonrigid Registration of Pre-Procedural MRI and Intra-Procedural CT in CT-Guided Cryoablation of Lung Tumors to Improve Lung Tumor Conspicuity. *Journal of Medical Robotics Research*, **2016**, 01, 1650004	1.1	

138	Three-dimensional quantitative assessment of ablation margins based on registration of pre- and post-procedural MRI and distance map. *International Journal of Computer Assisted Radiology and Surgery*, **2016**, 11, 1133-42	3.9	14
137	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	3.9	41
136	In-bore prostate transperineal interventions with an MRI-guided parallel manipulator: system development and preliminary evaluation. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2016**, 12, 199-213	2.9	36
135	Body-mounted robotic instrument guide for image-guided cryotherapy of renal cancer. *Medical Physics*, **2016**, 43, 843-53	4.4	18
134	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	5.5	60
133	Graphics Processing Unit-Accelerated Nonrigid Registration of MR Images to CT Images During CT-Guided Percutaneous Liver Tumor Ablations. *Academic Radiology*, **2015**, 22, 722-33	4.3	10
132	Assessment of the OsteoMark-Navigation System for Oral and Maxillofacial Surgery. *Journal of Oral and Maxillofacial Surgery*, **2015**, 73, 2005-16	1.8	7
131	Piezoelectrically Actuated Robotic System for MRI-Guided Prostate Percutaneous Therapy. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 1920-1932	5.5	76
130	3T MR-guided in-bore transperineal prostate biopsy: A comparison of robotic and manual needle-guidance templates. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 63-71	5.6	47
129	OpenIGTLink interface for state control and visualisation of a robot for image-guided therapy systems. *International Journal of Computer Assisted Radiology and Surgery*, **2015**, 10, 285-92	3.9	8
128	Transperineal in-bore 3-T MR imaging-guided prostate biopsy: a prospective clinical observational study. *Radiology*, **2015**, 274, 170-80	20.5	65
127	A novel four-wire-driven robotic catheter for radio-frequency ablation treatment. *International Journal of Computer Assisted Radiology and Surgery*, **2014**, 9, 867-74	3.9	11
126	Treatment planning and image guidance for radiofrequency ablation of large tumors. *IEEE Journal of Biomedical and Health Informatics*, **2014**, 18, 920-8	7.2	29
125	Development and evaluation of optical needle depth sensor for percutaneous diagnosis and therapies **2014**,		1
124	Extended kinematic mapping of tendon-driven continuum robot for neuroendoscopy **2014**,		7
123	Image-Guided Robotics in Minimally Invasive Therapies **2014**, 439-447		
122	MRI-Guided and Controlled Laser-Induced Interstitial Thermal Therapy of Brain Tumors Using Integrated Navigation and Thermal Mapping **2014**, 567-574		
121	A workspace-orientated needle-guiding robot for 3T MRI-guided transperineal prostate intervention: evaluation of in-bore workspace and MRI compatibility. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2013**, 9, 67-74	2.9	20

120	Accuracy study of a robotic system for MRI-guided prostate needle placement. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2013**, 9, 305-16	2.9	30
119	Towards Clinically Optimized MRI-guided Surgical Manipulator for Minimally Invasive Prostate Percutaneous Interventions: Constructive Design. *IEEE International Conference on Robotics and Automation: ICRA: [proceedings]*, **2013**, 20132, 1228-1233	2.2	13
118	Development and preliminary evaluation of a motorized needle guide template for MRI-guided targeted prostate biopsy. *IEEE Transactions on Biomedical Engineering*, **2013**, 60, 3019-27	5	32
117	A Fully Actuated Robotic Assistant for MRI-Guided Prostate Biopsy and Brachytherapy. *Proceedings of SPIE*, **2013**, 8671, 867117	1.7	12
116	Design evaluation of a double ring RCM mechanism for robotic needle guidance in MRI-guided liver interventions **2013**,		11
115	Configurable automatic detection and registration of fiducial frames for device-to-image registration in MRI-guided prostate interventions. *Lecture Notes in Computer Science*, **2013**, 16, 355-62	0.9	16
114	Multi-section continuum robot for endoscopic surgical clipping of intracranial aneurysms. *Lecture Notes in Computer Science*, **2013**, 16, 364-71	0.9	8
113	MRI driven magnetic microswimmers. *Biomedical Microdevices*, **2012**, 14, 165-78	3.7	68
112	Preclinical evaluation of an MRI-compatible pneumatic robot for angulated needle placement in transperineal prostate interventions. *International Journal of Computer Assisted Radiology and Surgery*, **2012**, 7, 949-57	3.9	31
111	Image registration for targeted MRI-guided transperineal prostate biopsy. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 987-92	5.6	46
110	In-bore setup and software for 3T MRI-guided transperineal prostate biopsy. *Physics in Medicine and Biology*, **2012**, 57, 5823-40	3.8	38
109	Development and preliminary evaluation of an ultrasonic motor actuated needle guide for 3T MRI-guided transperineal prostate interventions **2012**,		1
108	A networked modular hardware and software system for MRI-guided robotic prostate interventions **2012**,		1
107	The Effects of Young□ Modulus on Predicting Prostate Deformation for MRI-Guided Interventions **2011**, 39-49		4
106	Intraoperative real-time querying of white matter tracts during frameless stereotactic neuronavigation. *Neurosurgery*, **2011**, 68, 506-16; discussion 516	3.2	35
105	Image registration of pre-procedural MRI and intra-procedural CT images to aid CT-guided percutaneous cryoablation of renal tumors. *International Journal of Computer Assisted Radiology and Surgery*, **2011**, 6, 111-7	3.9	17
104	Impact of nonrigid motion correction technique on pixel-wise pharmacokinetic analysis of free-breathing pulmonary dynamic contrast-enhanced MR imaging. *Journal of Magnetic Resonance Imaging*, **2011**, 33, 968-73	5.6	15
103	High-field MRI-compatible needle placement robot for prostate interventions. *Studies in Health Technology and Informatics*, **2011**, 163, 623-9	0.5	8

102	Distance measurement in middle ear surgery using a telemanipulator. *Lecture Notes in Computer Science*, **2011**, 14, 41-8	0.9	5
101	Magnetic targeting of aggregated nanoparticles for advanced lung therapies: A robotics approach **2010**,		8
100	Development and validation of a real-time reduced field of view imaging driven by automated needle detection for MRI-guided interventions **2010**,		2
99	Multimodality non-rigid image registration for planning, targeting and monitoring during CT-guided percutaneous liver tumor cryoablation. *Academic Radiology*, **2010**, 17, 1334-44	4.3	38
98	Preliminary Evaluation of a MRI-compatible Modular Robotic System for MRI-guided Prostate Interventions **2010**, 2010, 796-801	2.3	7
97	Integrated navigation and control software system for MRI-guided robotic prostate interventions. *Computerized Medical Imaging and Graphics*, **2010**, 34, 3-8	7.6	51
96	Open core control software for surgical robots. *International Journal of Computer Assisted Radiology and Surgery*, **2010**, 5, 211-20	3.9	7
95	MRI signal intensity based B-spline nonrigid registration for pre- and intraoperative imaging during prostate brachytherapy. *Journal of Magnetic Resonance Imaging*, **2009**, 30, 1052-8	5.6	42
94	OpenIGTLink: an open network protocol for image-guided therapy environment. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2009**, 5, 423-34	2.9	198
93	Preliminary clinical experiences of a motorized manipulator for magnetic resonance image-guided microwave coagulation therapy of liver tumors. *American Journal of Surgery*, **2009**, 198, 340-7	2.7	16
92	Lung motion and volume measurement by dynamic 3D MRI using a 128-channel receiver coil. *Academic Radiology*, **2009**, 16, 22-7	4.3	30
91	Interfacing proprietary hardware with the image-guided surgery toolkit (IGSTK): a case for the OpenIGTLink protocol **2009**,		5
90	An open-source real-time ultrasound reconstruction system for four-dimensional imaging of moving organs **2009**,		1
89	Intra-operative multimodal non-rigid registration of the liver for navigated tumor ablation. *Lecture Notes in Computer Science*, **2009**, 12, 837-44	0.9	4
88	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	0	
87	Swimming capsule endoscope using static and RF magnetic field of MRI for propulsion **2008**,		19
86	Flagellar swimming for medical micro robots: Theory, experiments and application **2008**,		23
85	MRI-Compatible Pneumatic Robot for Transperineal Prostate Needle Placement. *IEEE/ASME Transactions on Mechatronics*, **2008**, 13, 295-305	5.5	201

84	Integrated system for Robot-Assisted in Prostate Biopsy in closed MRI Scanner **2008**,		3
83	Pneumatically Operated MRI-Compatible Needle Placement Robot for Prostate Interventions. *IEEE International Conference on Robotics and Automation: ICRA: [proceedings]*, **2008**, 2008, 2489-2495	2.2	14
82	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. *Journal of Pediatric Orthopaedics*, **2008**, 28, 291-6	2.4	10
81	Real-time magnetic resonance imaging driven by electromagnetic locator for interventional procedure and endoscopic therapy. *Surgical Endoscopy and Other Interventional Techniques*, **2008**, 22, 552-6	5.2	9
80	An integrated system for planning, navigation and robotic assistance for skull base surgery. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2008**, 4, 321-30	2.9	107
79	MR-guided prostate interventions. *Journal of Magnetic Resonance Imaging*, **2008**, 27, 356-67	5.6	55
78	MRI-compatible manipulator with remote-center-of-motion control. *Journal of Magnetic Resonance Imaging*, **2008**, 27, 1130-8	5.6	36
77	Magnetic Resonance Image-Guided Neurosurgery **2008**, 205-215		
76	Magnetic Resonance Image Guided Neurosurgery **2008**, 171-180		
75	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	0	
74	Software strategy for robotic transperineal prostate therapy in closed-bore MRI. *Lecture Notes in Computer Science*, **2008**, 11, 701-9	0.9	8
73	A cooperatively-controlled image guided robot system for skull base surgery. *Studies in Health Technology and Informatics*, **2008**, 132, 198-203	0.5	3
72	Dynamic imaging of swallowing in a seated position using open-configuration MRI. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 172-6	5.6	34
71	Transperineal prostate biopsy under magnetic resonance image guidance: a needle placement accuracy study. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 688-94	5.6	65
70	A device guidance method for organ motion compensation in MRI-guided therapy. *Physics in Medicine and Biology*, **2007**, 52, 6427-38	3.8	4
69	Navigation Needs in Transluminal Endoscopic Surgery. *Journal of Japan Society of Computer Aided Surgery*, **2007**, 9, 85-89	0.1	1
68	Surface rendering-based virtual intraventricular endoscopy: retrospective feasibility study and comparison to volume rendering-based approach. *NeuroImage*, **2007**, 37 Suppl 1, S89-99	7.9	10
67	Challenges in image-guided therapy system design. *NeuroImage*, **2007**, 37 Suppl 1, S144-51	7.9	32

66	Robotic System for Less Invasive Abdominal Surgery **2007**, 129-139		
65	Application of open source image guided therapy software in MR-guided therapies **2007**, 10, 491-8		3
64	Robot-assisted needle placement in open MRI: System architecture, integration and validation. *Computer Aided Surgery*, **2007**, 12, 15-24		20
63	Image-guided neurosurgery at Brigham and Women's Hospital. *IEEE Engineering in Medicine and Biology Magazine*, **2006**, 25, 67-73		27
62	Real-time organ motion tracking and fast image registration system for MRI-guided surgery. *Systems and Computers in Japan*, **2006**, 37, 83-92		2
61	Integral videography autostereoscopic display using multiprojection. *Systems and Computers in Japan*, **2006**, 37, 34-45		1
60	Intraoperative tumor segmentation and volume measurement in MRI-guided glioma surgery for tumor resection rate control. *Academic Radiology*, **2005**, 12, 116-22	4.3	11
59	Scalable high-resolution integral videography autostereoscopic display with a seamless multiprojection system. *Applied Optics*, **2005**, 44, 305-15	1.7	31
58	Three-dimensional display with a long viewing distance by use of integral photography. *Optics Letters*, **2005**, 30, 613-5	3	19
57	Magnetic resonance-guided prostate interventions. *Topics in Magnetic Resonance Imaging*, **2005**, 16, 355-68	2.3	23
56	Non-gated fetal MRI of umbilical blood flow in an acardiac twin. *Pediatric Radiology*, **2005**, 35, 826-9	2.8	9
55	Surgical navigation by autostereoscopic image overlay of integral videography. *IEEE Transactions on Information Technology in Biomedicine*, **2004**, 8, 114-21		70
54	Motion tracking in MR-guided liver therapy by using navigator echoes and projection profile matching. *Academic Radiology*, **2004**, 11, 111-20	4.3	12
53	Navigation system for ACL reconstruction using registration between multi-viewpoint X-ray images and CT images. *International Congress Series*, **2004**, 1268, 498-502		2
52	High-quality integral videography using a multiprojector. *Optics Express*, **2004**, 12, 1067-76	3.3	133
51	Control System for MR-Guided Cryotherapy Short-Term Prediction of Therapy Boundary Using Automatic Segmentation and 3D Optical Flow *Lecture Notes in Computer Science*, **2004**, 542-550	0.9	1
50	Handheld Laparoscopic Forceps Manipulator Using Multi-slider Linkage Mechanisms. *Lecture Notes in Computer Science*, **2004**, 121-128	0.9	19
49	Laparoscopic Forceps Manipulator with Multi-Slider Linkage Mechanisms. *Journal of Life Support Engineering*, **2004**, 16, 233-234	0	2

48	Surgical Image Overlay System Using Autostereoscopic Display. *Journal of Life Support Engineering*, **2004**, 16, 127-128	0	
47	System Design for Implementing Distributed Modular Architecture to Reliable Surgical Robotic System. *Lecture Notes in Computer Science*, **2004**, 184-191	0.9	1
46	Validation of Fast Organ Tracking and Image Registration for MRI-Guided Surgery. *Journal of Life Support Engineering*, **2004**, 16, 231-232	0	
45	Development of Extracorporeal Shock Wave Osteotomy Using Focused Ultrasound. *Journal of Life Support Engineering*, **2004**, 16, 129-130	0	
44	Needle Insertion Path Decision by Visual Servo Control. *Journal of Life Support Engineering*, **2004**, 16, 243-244	0	
43	Development of the welfare sysytem with controle robot arm by cellphone. *Journal of Life Support Engineering*, **2004**, 16, 79-80	0	
42	PC-MRA method for fetus using MR compatible ultrasound probe. *Journal of Life Support Engineering*, **2004**, 16, 307-308	0	
41	A Navigation and Robot System for Anterior Cruciate Ligament Reconstruction Surgery. *Journal of Life Support Engineering*, **2004**, 16, 125-126	0	
40	Integral Videography Overlay Navigation System Using Mutual Information-Based Registration. *Lecture Notes in Computer Science*, **2004**, 361-368	0.9	1
39	Needle Guiding Robot with Five-Bar Linkage for MR-Guided Thermotherapy of Liver Tumor. *Lecture Notes in Computer Science*, **2004**, 161-168	0.9	8
38	High Quality Autostereoscopic Surgical Display Using Anti-aliased Integral Videography Imaging. *Lecture Notes in Computer Science*, **2004**, 462-469	0.9	9
37	An Autostereoscopic Display System for Image-Guided Surgery Using High-Quality Integral Videography with High Performance Computing. *Lecture Notes in Computer Science*, **2003**, 247-255	0.9	4
36	Integration of Projection Profile Matching into Clinical MR Scanner System for Real-Time Organ Tracking and Image Registration. *Lecture Notes in Computer Science*, **2003**, 311-318	0.9	1
35	A Transurethral Prostate Resection Manipulator for Minimal Damage to Mucous Membrane. *Lecture Notes in Computer Science*, **2003**, 149-156	0.9	2
34	New assistive devices for MR-guided microwave thermocoagulation of liver tumors. *Academic Radiology*, **2003**, 10, 180-8	4.3	31
33	Three-dimensional volume rendering of fetal MR images for the diagnosis of congenital cystic adenomatoid malformation. *Academic Radiology*, **2003**, 10, 309-12	4.3	16
32	Advanced computer assistance for magnetic resonance-guided microwave thermocoagulation of liver tumors. *Academic Radiology*, **2003**, 10, 1442-9	4.3	29
31	High performance computing for parallel rendering in surgical autostereoscopic display and navigation. *International Congress Series*, **2003**, 1256, 403-407		

30	Development and Evaluation of Equipment for Transfer of a Patient between Bed and Stretcher. *The Proceedings of the JSME Symposium on Welfare Engineering*, **2003**, 2003.3, 121-123		
29	Quantitative MR imaging assessment of prostate gland deformation before and during MR imaging-guided brachytherapy. *Academic Radiology*, **2002**, 9, 906-12	4.3	49
28	Ultra-fast image registration embedded in intraoperative MR imaging **2002**, 69-73		1
27	A Stem Cell Harvesting Manipulator with Flexible Drilling Unit for Bone Marrow Transplantation. *Lecture Notes in Computer Science*, **2002**, 192-199	0.9	
26	Multi-slider linkage mechanism for endoscopic manipulator **2002**, 1086-1086		1
25	A Motion Adaptable Needle Placement Instrument Based on Tumor Specific Ultrasonic Image Segmentation. *Lecture Notes in Computer Science*, **2002**, 122-129	0.9	10
24	High-Resolution Stereoscopic Surgical Display Using Parallel Integral Videography and Multi-projector. *Lecture Notes in Computer Science*, **2002**, 85-92	0.9	5
23	Projection Profile Matching for Intraoperative MRI Registration Embedded in MR Imaging Sequence. *Lecture Notes in Computer Science*, **2002**, 164-169	0.9	2
22	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. *Neurosurgery*, **2001**, 48, 787-798	3.2	245
21	MR imaging-guided prostate biopsy with surgical navigation software: device validation and feasibility. *Radiology*, **2001**, 220, 263-8	20.5	107
20	Evaluation of three-dimensional finite element-based deformable registration of pre- and intraoperative prostate imaging. *Medical Physics*, **2001**, 28, 2551-60	4.4	183
19	Serial intraoperative magnetic resonance imaging of brain shift. *Neurosurgery*, **2001**, 48, 787-97; discussion 797-8	3.2	308
18	Three-dimensional optical flow method for measurement of volumetric brain deformation from intraoperative MR images. *Journal of Computer Assisted Tomography*, **2000**, 24, 531-8	2.2	48
17	Feasibility of transperineal prostate biopsy under interventional magnetic resonance guidance. *Urology*, **2000**, 56, 663-4	1.6	42
16	MR Compatible Surgical Assist Robot: System Integration and Preliminary Feasibility Study. *Lecture Notes in Computer Science*, **2000**, 921-930	0.9	62
15	Distributed Modular Computer-Integrated Surgical Robotic Systems: Implementation Using Modular Software and Networked Systems. *Lecture Notes in Computer Science*, **2000**, 969-978	0.9	4
14	Distributed Modular Computer-Integrated Surgical Robotic Systems: Architecture for Intelligent Object Distribution. *Lecture Notes in Computer Science*, **2000**, 979-987	0.9	7
13	Computer-based imaging and interventional MRI: applications for neurosurgery. *Computerized Medical Imaging and Graphics*, **1999**, 23, 245-58	7.6	25

12	A Volumetric Optical Flow Method for Measurement of Brain Deformation from Intraoperative Magnetic Resonance Images. *Lecture Notes in Computer Science*, **1999**, 928-935	0.9	16
11	Monitoring and visualization techniques for MR-guided laser ablations in an open MR system. *Journal of Magnetic Resonance Imaging*, **1998**, 8, 933-43	5.6	74
10	Three-dimensional computed tomography for planning urologic surgery. *Urologic Clinics of North America*, **1998**, 25, 103-11	2.9	8
9	Computer-assisted intra-operative magnetic resonance imaging monitoring of interstitial laser therapy in the brain: a case report. *Journal of Biomedical Optics*, **1998**, 3, 304-11	3.5	24
8	Real-time monitoring and analysis of MR-guided laser ablation in an open-configuration MR system **1998**, 3245, 98		
7	Design considerations for a computer-vision-enabled ophthalmic augmented reality environment. *Lecture Notes in Computer Science*, **1997**, 399-408	0.9	12
6	Development of a frameless and armless stereotactic neuronavigation system with ultrasonographic registration. *Neurosurgery*, **1997**, 41, 608-13; discussion 613-4	3.2	92
5	Three-Dimensional Image-Guided Navigation with Overlaid Three-Dimensional Image (Volumegraph) and Volumetric Ultrasonogram (V-US) **1997**, 123-130		1
4	Development of a Frameless and Armless Stereotactic Neuronavigation System with Ultrasonographic Registration. *Neurosurgery*, **1997**, 41, 608-614	3.2	70
3	Image guided microscopic surgery system using mutual-information based registration. *Lecture Notes in Computer Science*, **1996**, 317-326	0.9	7
2	Intraoperative image-guided stereotactic surgery. Ultrasound computed tomography(US-CT) for neurosurgical procedures.. *Neurosonology*, **1996**, 9, 124-128	0.1	
1	An image-guided stereotactic system for neurosurgical operations. *Stereotactic and Functional Neurosurgery*, **1994**, 63, 130-8	1.6	17