

Peter Kazanzides

List of Publications by Year in descending order

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188
papers

4,907
citations

159358

30
h-index

138251

58
g-index

189
all docs

189
docs citations

189
times ranked

3771
citing authors

#	ARTICLE	IF	CITATIONS
1	AR-Loupe: Magnified Augmented Reality by Combining an Optical See-Through Head-Mounted Display and a Loupe. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 2550-2562.	2.9	15
2	Virtual reality for synergistic surgical training and data generation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2022, 10, 366-374.	1.3	10
3	Open Simulation Environment for Learning and Practice of Robot-Assisted Surgical Suturing. IEEE Robotics and Automation Letters, 2022, 7, 3843-3850.	3.3	10
4	AutoInFocus, a new paradigm for ultrasound-guided spine intervention: a multi-platform validation study. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 911-920.	1.7	5
5	Transfer of learned dynamics between different surgical robots and operative configurations. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 903-910.	1.7	2
6	Evaluation of a Motion Measurement System for PET Imaging Studies. , 2022, , .		0
7	Learning Based Estimation of 7 DOF Instrument and Grasping Forces on the da Vinci Research Kit. , 2022, , .		2
8	Bridging 3D Slicer and ROS2 for Image-Guided Robotic Interventions. Sensors, 2022, 22, 5336.	2.1	2
9	A Surgical Robotic System for Treatment of Pelvic Osteolysis Using an FBG-Equipped Continuum Manipulator and Flexible Instruments. IEEE/ASME Transactions on Mechatronics, 2021, 26, 369-380.	3.7	36
10	Accelerating Surgical Robotics Research: A Review of 10 Years With the da Vinci Research Kit. IEEE Robotics and Automation Magazine, 2021, 28, 56-78.	2.2	56
11	Evaluation of Hybrid Control and Palpation Assistance for Situational Awareness in Telemanipulated Task Execution. IEEE Transactions on Medical Robotics and Bionics, 2021, 3, 31-43.	2.1	3
12	Cross-modal self-supervised representation learning for gesture and skill recognition in robotic surgery. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 779-787.	1.7	8
13	Learning Deep Nets for Gravitational Dynamics With Unknown Disturbance Through Physical Knowledge Distillation: Initial Feasibility Study. IEEE Robotics and Automation Letters, 2021, 6, 2658-2665.	3.3	3
14	A Framework for Customizable Multi-User Teleoperated Control. IEEE Robotics and Automation Letters, 2021, 6, 3256-3263.	3.3	6
15	Telerobotic Operation of Intensive Care Unit Ventilators. Frontiers in Robotics and AI, 2021, 8, 612964.	2.0	7
16	Model-based Design and Digital Implementation to Improve Control of the da Vinci Research Kit Telerobotic Surgical System. , 2021, , .		1
17	Teleoperation and Visualization Interfaces for Remote Intervention in Space. Frontiers in Robotics and AI, 2021, 8, 747917.	2.0	4
18	Mobile Teleoperation: Feasibility of Wireless Wearable Sensing of the Operator's Arm Motion. , 2021, , .		0

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19	Learning Soft-Tissue Simulation from Models and Observation. , 2021, , .		1
20	Robot Force Estimation with Learned Intraoperative Correction. , 2021, , .		3
21	Medical robotics and computer-integrated interventional medicine. , 2020, , 617-672.		15
22	System integration. , 2020, , 861-891.		2
23	A Review of Augmented Reality in Robotic-Assisted Surgery. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 1-16.	2.1	69
24	Neural Network based Inverse Dynamics Identification and External Force Estimation on the da Vinci Research Kit. , 2020, , .		29
25	Interactive Navigation System in Mixed-Reality for Neurosurgery. , 2020, , .		3
26	Leveraging vision and kinematics data to improve realism of biomechanic soft tissue simulation for robotic surgery. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 811-818.	1.7	11
27	SCAN: System for Camera Autonomous Navigation in Robotic-Assisted Surgery. , 2020, , .		16
28	An Interactive Mixed Reality Platform for Bedside Surgical Procedures. Lecture Notes in Computer Science, 2020, , 65-75.	1.0	13
29	Interactive Planning and Supervised Execution for High-Risk, High-Latency Teleoperation. , 2020, , .		8
30	Visual Monitoring and Servoing of a Cutting Blade during Telerobotic Satellite Servicing. , 2020, , .		1
31	FlexiVision: Teleporting the Surgeon's Eyes via Robotic Flexible Endoscope and Head-Mounted Display. , 2020, , .		9
32	Collaborative Robotics Toolkit (CRTK): Open Software Framework for Surgical Robotics Research. , 2020, , .		8
33	A Deep Learning Approach to Intrinsic Force Sensing on the da Vinci Surgical Robot. , 2020, , .		10
34	Augmented Reality Assisted Instrument Insertion and Tool Manipulation for the First Assistant in Robotic Surgery. , 2019, , .		20
35	2D ultrasound imaging based intra-fraction respiratory motion tracking for abdominal radiation therapy using machine learning. Physics in Medicine and Biology, 2019, 64, 185006.	1.6	18
36	A Reliable Gravity Compensation Control Strategy for dVRK Robotic Arms With Nonlinear Disturbance Forces. IEEE Robotics and Automation Letters, 2019, 4, 3892-3899.	3.3	10

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37	Experimental Evaluation of Teleoperation Interfaces for Cutting of Satellite Insulation. , 2019, , .		9
38	A Unified Framework for the Teleoperation of Surgical Robots in Constrained Workspaces. , 2019, , .		22
39	ARAMIS: Augmented Reality Assistance for Minimally Invasive Surgery Using a Head-Mounted Display. Lecture Notes in Computer Science, 2019, , 74-82.	1.0	16
40	dVRK-XR: Mixed Reality Extension for da Vinci Research Kit. , 2019, , .		4
41	Fast Inverse Planning of Beam Directions and Weights for Small Animal Radiotherapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 215-222.	2.7	1
42	Integration of a Low-Cost Three-Axis Sensor for Robot Force Control. , 2018, , .		5
43	A Computational Framework for Complementary Situational Awareness (CSA) in Surgical Assistant Robots. , 2018, , .		10
44	Validation of <sc>GPU</sc>â€accelerated superpositionâ€convolution dose computations for the Small Animal Radiation Research Platform. Medical Physics, 2018, 45, 2252-2265.	1.6	17
45	Vision-Based Calibration of Dual RCM-Based Robot Arms in Human-Robot Collaborative Minimally Invasive Surgery. IEEE Robotics and Automation Letters, 2018, 3, 672-679.	3.3	56
46	FPGA-Based Velocity Estimation for Control of Robots with Low-Resolution Encoders. , 2018, , .		10
47	Design and Evaluation of a Performance-based Adaptive Curriculum for Robotic Surgical Training: a Pilot Study. , 2018, 2018, 2162-2165.		21
48	Can Mixed-Reality Improve the Training of Medical Procedures?. , 2018, 2018, 4065-4068.		15
49	ARssist: augmented reality on a headâ€mounted display for the first assistant in robotic surgery. Healthcare Technology Letters, 2018, 5, 194-200.	1.9	61
50	Restoring the Awareness in the Occluded Visual Field for Optical See-Through Head-Mounted Displays. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2936-2946.	2.9	16
51	Evaluation of Optical See-Through Head-Mounted Displays in Training for Critical Care and Trauma. , 2018, , .		10
52	Scene Modeling and Augmented Virtuality Interface for Telerobotic Satellite Servicing. IEEE Robotics and Automation Letters, 2018, 3, 4241-4248.	3.3	12
53	Interactive Training and Operation Ecosystem for Surgical Tasks in Mixed Reality. Lecture Notes in Computer Science, 2018, , 20-29.	1.0	3
54	Accuracy of a novel photoacoustic-based approach to surgical guidance performed with and without a da Vinci robot. , 2017, , .		4

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55	Image-Based Trajectory Tracking Control of 4-DoF Laparoscopic Instruments Using a Rotation Distinguishing Marker. IEEE Robotics and Automation Letters, 2017, 2, 1586-1592.	3.3	7
56	Prioritization and static error compensation for multi-camera collaborative tracking in augmented reality. , 2017, , .		9
57	Robust optical see-through head-mounted display calibration: Taking anisotropic nature of user interaction errors into account. , 2017, , .		8
58	Fiducial-based registration with a touchable region model. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 277-289.	1.7	7
59	Real-Time Image-Guided Telerobotic System Integrating 3D Slicer and the Da Vinci Research Kit. , 2017, , .		8
60	Software Architecture of the Da Vinci Research Kit. , 2017, , .		32
61	Feasibility study of ultrasound imaging for stereotactic body radiation therapy with active breathing coordinator in pancreatic cancer. Journal of Applied Clinical Medical Physics, 2017, 18, 84-96.	0.8	21
62	Comparison of optical see-through head-mounted displays for surgical interventions with object-anchored 2D-display. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 901-910.	1.7	69
63	Medical roboticsâ€™Regulatory, ethical, and legal considerationsâ€™for increasing levels of autonomy. Science Robotics, 2017, 2, .	9.9	349
64	Force-Controlled Exploration for Updating Virtual Fixture Geometry in Model-Mediated Telemanipulation. Journal of Mechanisms and Robotics, 2017, 9, .	1.5	18
65	Needle release mechanism enabling multiple insertions with an ultrasound-guided prostate brachytherapy robot. , 2017, 2017, 4339-4342.		1
66	System Integration and In Vivo Testing of a Robot for Ultrasound Guidance and Monitoring During Radiotherapy. IEEE Transactions on Biomedical Engineering, 2017, 64, 1608-1618.	2.5	28
67	Augmented virtuality for model-based teleoperation. , 2017, , .		16
68	Feasibility of a photoacoustic image guided telerobotic system for skull base surgery. , 2017, , .		0
69	Teleoperative control of intraocular robotic snake: Vision-based angular calibration. , 2017, , .		1
70	Improving the safety of telerobotic drilling of the skull base via photoacoustic sensing of the carotid arteries. , 2017, , .		9
71	Photoacoustic-based approach to surgical guidance performed with and without a da Vinci robot. Journal of Biomedical Optics, 2017, 22, 1.	1.4	58
72	Cooperative Control with Ultrasound Guidance for Radiation Therapy. Frontiers in Robotics and AI, 2016, 3, .	2.0	16

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73	Task frame estimation during model-based teleoperation for satellite servicing. , 2016, , .		5
74	Reduction of Interaction Space in Single Point Active Alignment Method for Optical See-Through Head-Mounted Display Calibration. , 2016, , .		6
75	Updating Virtual Fixtures From Exploration Data in Force-Controlled Model-Based Telemanipulation. , 2016, , .		7
76	Robotic system with multiplex power transmission for MRI-guided percutaneous interventions. , 2016, 2016, 5228-5232.		6
77	Modeling Physical Structure as Additional Constraints for Stereoscopic Optical See-Through Head-Mounted Display Calibration. , 2016, , .		6
78	Virtual fixture assistance for needle passing and knot tying. , 2016, , .		26
79	Feasibility of photoacoustic image guidance for telerobotic endonasal transsphenoidal surgery. , 2016, , .		11
80	An architectural approach to safety of component-based robotic systems. , 2016, , .		5
81	Experimental assessment of energy requirements and tool tip visibility for photoacoustic-guided endonasal surgery. , 2016, , .		5
82	Toward Standardized Acoustic Radiation Force (ARF)-Based Ultrasound Elasticity Measurements With Robotic Force Control. IEEE Transactions on Biomedical Engineering, 2016, 63, 1517-1524.	2.5	21
83	MO-FG-CAMPUS-JeP3-04: Feasibility Study of Real-Time Ultrasound Monitoring for Abdominal Stereotactic Body Radiation Therapy. Medical Physics, 2016, 43, 3727-3727.	1.6	3
84	An Ethernet to FireWire bridge for real-time control of the da Vinci Research Kit (dVRK). , 2015, , .		2
85	Experimental evaluation of force control for virtual-fixture-assisted teleoperation for on-orbit manipulation of satellite thermal blanket insulation. , 2015, , .		15
86	An Inertial and Optical Sensor Fusion Approach for Six Degree-of-Freedom Pose Estimation. Sensors, 2015, 15, 16448-16465.	2.1	34
87	Modular Interoperability in Surgical Robotics Software. Mechanical Engineering, 2015, 137, S19-S22.	0.0	3
88	Preliminary study of virtual nonholonomic constraints for time-delayed teleoperation. , 2015, , .		12
89	Parameter estimation and anomaly detection while cutting insulation during telerobotic satellite servicing. , 2015, , .		3
90	Quantifying bone thickness, light transmission, and contrast interrelationships in transcranial photoacoustic imaging. Proceedings of SPIE, 2015, , .	0.8	5

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91	Minimally invasive registration for computer-assisted orthopedic surgery: combining tracked ultrasound and bone surface points via the P-IMLOP algorithm. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 761-771.	1.7	5
92	Photoacoustic image guidance for robot-assisted skull base surgery. , 2015, , .		12
93	System integration and preliminary in-vivo experiments of a robot for ultrasound guidance and monitoring during radiotherapy. , 2015, 2015, 53-59.		12
94	Localization of Transcranial Targets for Photoacoustic-Guided Endonasal Surgeries. <i>Photoacoustics</i> , 2015, 3, 78-87.	4.4	67
95	An open-source research kit for the da Vinci [®] Surgical System. , 2014, , .		309
96	In vivo reproducibility of robotic probe placement for a novel ultrasound-guided radiation therapy system. <i>Journal of Medical Imaging</i> , 2014, 1, 1.	0.8	36
97	Force-controlled ultrasound robot for consistent tissue pre-loading: Implications for acoustic radiation force elasticity imaging. , 2014, , .		5
98	Multi-kilohertz control of multiple robots via IEEE-1394 (firewire). , 2014, , .		4
99	Safety Design View: A conceptual framework for systematic understanding of safety features of medical robot systems. , 2014, , .		11
100	Feasibility of transcranial photoacoustic imaging for interventional guidance of endonasal surgeries. <i>Proceedings of SPIE</i> , 2014, , .	0.8	7
101	Strategies and models for cutting satellite insulation in telerobotic servicing missions. , 2014, , .		5
102	In vivo reproducibility of robotic probe placement for an integrated US-CT image-guided radiation therapy system. , 2014, , .		1
103	Fusion of Inertial Sensing to Compensate for Partial Occlusions in Optical Tracking Systems. <i>Lecture Notes in Computer Science</i> , 2014, , 60-69.	1.0	3
104	Dose Painting with a Variable Collimator for the Small Animal Radiation Research Platform (SARRP). , 2014, , .		3
105	Model-based telerobotic control with virtual fixtures for satellite servicing tasks. , 2013, , .		23
106	Bayesian filtering to improve the dynamic accuracy of electromagnetic tracking. , 2013, , .		1
107	Particle filtering to improve the dynamic accuracy of electromagnetic tracking. , 2013, , .		2
108	Certifying the safe design of a virtual fixture control algorithm for a surgical robot. , 2013, , .		26

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109	A cooperatively controlled robot for ultrasound monitoring of radiation therapy. , 2013, 2013, 3071-3076.		22
110	Force control of a non-backdrivable robot without a force sensor. , 2013, , .		2
111	Interactive OCT Annotation and Visualization for Vitreoretinal Surgery. Lecture Notes in Computer Science, 2013, , 142-152.	1.0	2
112	An Open-Source Hardware and Software Platform for Telesurgical Robotics Research. , 2013, , .		7
113	Surgical navigation with a head-mounted tracking system and display. Studies in Health Technology and Informatics, 2013, 184, 363-9.	0.2	8
114	Proving the correctness of concurrent robot software. , 2012, , .		3
115	Augmented reality environment with virtual fixtures for robotic telemanipulation in space. , 2012, , .		25
116	Enabling technologies for natural orifice transluminal endoscopic surgery (N.O.T.E.S) using robotically guided elasticity imaging. Proceedings of SPIE, 2012, , .	0.8	5
117	Decision support systems for robotic surgery and acute care. Proceedings of SPIE, 2012, , .	0.8	0
118	Fault Detection and Diagnosis for Component-based Robotic Systems. , 2012, , .		3
119	Event-based patient motion detection and compensation in image-guided robotics. , 2012, , .		0
120	Augmented reality goggles with an integrated tracking system for navigation in neurosurgery. , 2012, , .		24
121	Multisensor Data Fusion in an Integrated Tracking System for Endoscopic Surgery. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 106-111.	3.6	78
122	Investigation of Attitude Tracking Using an Integrated Inertial and Magnetic Navigation System for Hand-Held Surgical Instruments. IEEE/ASME Transactions on Mechatronics, 2012, 17, 210-217.	3.7	150
123	Intraoperative Image-based Multiview 2D/3D Registration for Image-Guided Orthopaedic Surgery: Incorporation of Fiducial-Based C-Arm Tracking and GPU-Acceleration. IEEE Transactions on Medical Imaging, 2012, 31, 948-962.	5.4	110
124	A Treatment Planning System for the Small Animal Radiation Research Platform (SARRP) based on 3D Slicer. , 2012, , .		5
125	Toward practical semi-autonomous teleoperation: Do what i intend, not what i do. , 2011, , .		2
126	A Paired-Orientation Alignment Problem in a Hybrid Tracking System for Computer Assisted Surgery. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 63, 151-161.	2.0	20

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127	Robotic needle guide for prostate brachytherapy: Clinical testing of feasibility and performance. Brachytherapy, 2011, 10, 57-63.	0.2	37
128	Design of a scalable real-time robot controller and application to a dexterous manipulator. , 2011, , .		1
129	A constrained optimization approach to virtual fixtures for multi-robot collaborative teleoperation. , 2011, , .		12
130	SU-D-220-03: Inter- and Intra-Fraction Verification with Integrated On-Board Xray CBCT and 3D Ultrasound Imaging: A Feaibility Study. Medical Physics, 2011, 38, 3390-3390.	1.6	0
131	Component-based software for dynamic configuration and control of computer assisted intervention systems. , 2011, , .		0
132	A constrained optimization approach to virtual fixtures for multi-robot collaborative teleoperation. , 2011, , .		0
133	Surgical Case Identification for an Image-Guided Interventional System. , 2010, , .		2
134	A component-based architecture for flexible integration of robotic systems. , 2010, , .		14
135	Robotic delivery of complex radiation volumes for small animal research. , 2010, 2010, 2056-2061.		9
136	Treatment planning and delivery of shell dose distribution for precision irradiation. Proceedings of SPIE, 2010, , .	0.8	0
137	An image-guided femoroplasty system: development and initial cadaver studies. Proceedings of SPIE, 2010, , .	0.8	10
138	An Iterative Framework for Improving the Accuracy of Intraoperative Intensity-Based 2D/3D Registration for Image-Guided Orthopedic Surgery. Lecture Notes in Computer Science, 2010, , 23-33.	1.0	5
139	The Surgical Assistant Workstation (SAW) in Minimally-Invasive Surgery and Microsurgery. , 2010, , .		8
140	A robotic system for "FMISO PET" guided intratumoral measurements. Medical Physics, 2009, 36, 5301-5309.	1.6	36
141	Patient motion tracking in the presence of measurement errors. , 2009, 2009, 5563-6.		5
142	A scalable system for real-time control of dexterous surgical robots. , 2009, , .		6
143	A modular Clinical Decision Support System Clinical prototype extensible into multiple clinical settings. , 2009, , .		6
144	Image guided complex dose delivery for small animal radiotherapy. , 2009, , .		6

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145	Design and Integration of a Telerobotic System for Minimally Invasive Surgery of the Throat. International Journal of Robotics Research, 2009, 28, 1134-1153.	5.8	342
146	Safety design for medical robots. , 2009, 2009, 7208-11.		26
147	Hybrid attitude estimation for laparoscopic surgical tools: A preliminary study. , 2009, 2009, 5583-6.		9
148	Image-guided small animal radiation research platform: calibration of treatment beam alignment. Physics in Medicine and Biology, 2009, 54, 891-905.	1.6	72
149	An integrated system for planning, navigation and robotic assistance for skull base surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2008, 4, 321-330.	1.2	126
150	Robotic assistance for ultrasound-guided prostate brachytherapy. Medical Image Analysis, 2008, 12, 535-545.	7.0	104
151	A wide speed range and high precision position and velocity measurements chip with serial peripheral interface. The Integration VLSI Journal, 2008, 41, 297-305.	1.3	11
152	High-Resolution, Small Animal Radiation Research Platform With X-Ray Tomographic Guidance Capabilities. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1591-1599.	0.4	314
153	Surgical and Interventional Robotics - Core Concepts, Technology, and Design [Tutorial]. IEEE Robotics and Automation Magazine, 2008, 15, 122-130.	2.2	115
154	Surgical and interventional robotics: Part II. IEEE Robotics and Automation Magazine, 2008, 15, 94-102.	2.2	37
155	Surgical and interventional robotics: part III [Tutorial]. IEEE Robotics and Automation Magazine, 2008, 15, 84-93.	2.2	44
156	Medical Robotics and Computer-Integrated Interventional Medicine**Reprinted from Biomedical Information Technology, D. Feng, Ed.; Russell Taylor and Peter Kazanzides, "Medical Robotics and Computer-Integrated Interventional Medicine", pp. 393-416, 2007, Reprinted with permission from Elsevier.. Advances in Computers, 2008, 73, 219-260.	1.2	13
157	A distributed I/O low-level controller for highly-dexterous snake robots. , 2008, , .		5
158	Centralized processing and distributed I/O for robot control. , 2008, , .		13
159	Accuracy improvement of a neurosurgical robot system. , 2008, , .		19
160	An architecture for safe and efficient multi-threaded robot software. , 2008, , .		7
161	Calibration of the treatment beam of the Small Animal Radiation Research Platform. , 2008, , .		0
162	Medical Robotics and Computer-Integrated Interventional Medicine. , 2008, , 393-416.		12

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163	Metrology and standards needs for some categories of medical devices. Journal of Research of the National Institute of Standards and Technology, 2008, 113, 121.	0.4	15
164	Precision Radiotherapy for Small Animal Research. Lecture Notes in Computer Science, 2008, 11, 619-626.	1.0	12
165	A cooperatively-controlled image guided robot system for skull base surgery. Studies in Health Technology and Informatics, 2008, 132, 198-203.	0.2	5
166	Designing and Developing Medical Device Software Systems Using the Model Driven Architecture (MDA). , 2007, , .		3
167	Small Animal Radiation Research Platform: Imaging, Mechanics, Control and Calibration. , 2007, 10, 926-934.		21
168	Challenges in image-guided therapy system design. NeuroImage, 2007, 37, S144-S151.	2.1	41
169	Development of an image-guided robot for small animal research. Computer Aided Surgery, 2007, 12, 357-365.	1.8	15
170	Development and Application of a New Steady-Hand Manipulator for Retinal Surgery. , 2007, , .		93
171	Incremental Encoder Based Position and Velocity Measurements VLSI Chip with Serial Peripheral Interface. , 2007, , .		12
172	Robotic Assistance for Ultrasound Guided Prostate Brachytherapy. Lecture Notes in Computer Science, 2007, 10, 119-127.	1.0	20
173	Development of an image-guided robot for small animal research. Computer Aided Surgery, 2007, 12, 357-365.	1.8	7
174	Design and Validation of an Image-Guided Robot for Small Animal Research. Lecture Notes in Computer Science, 2006, 9, 50-57.	1.0	5
175	TH-B-224C-03: Robotically Assisted Needle Placement for Prostate Brachytherapy. Medical Physics, 2006, 33, 2264-2264.	1.6	2
176	Providing visual information to validate 2-D to 3-D registration. Medical Image Analysis, 2000, 4, 357-374.	7.0	35
177	A C-Arm Fluoroscopy-Guided Progressive Cut Refinement Strategy Using a Surgical Robot. Computer Aided Surgery, 2000, 5, 373-390.	1.8	40
178	A C-arm fluoroscopy-guided progressive cut refinement strategy using a surgical robot. Computer Aided Surgery, 2000, 5, 373-390.	1.8	22
179	Computer-integrated revision total hip replacement surgery: concept and preliminary results. Medical Image Analysis, 1999, 3, 301-319.	7.0	107
180	A Progressive Cut Refinement Scheme for Revision Total Hip Replacement Surgery Using C-arm Fluoroscopy. Lecture Notes in Computer Science, 1999, , 1010-1019.	1.0	6

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181	Anatomy-based registration of CT-scan and intraoperative X-ray images for guiding a surgical robot. IEEE Transactions on Medical Imaging, 1998, 17, 715-728.	5.4	130
182	<title>Anatomy-based registration of CT-scan and x-ray fluoroscopy data for intraoperative guidance of a surgical robot</title>. , 1998, , .		7
183	An image-directed robotic system for precise orthopaedic surgery. IEEE Transactions on Automation Science and Engineering, 1994, 10, 261-275.	2.4	271
184	Development of a surgical robot for cementless total hip replacement. Robotica, 1993, 11, 553-560.	1.3	22
185	An image-directed robotic system for hip replacemetn surgery.. Journal of the Robotics Society of Japan, 1990, 8, 615-620.	0.0	11
186	SPARTA: multiple signal processors for high-performance robot control. IEEE Transactions on Automation Science and Engineering, 1989, 5, 628-640.	2.4	33
187	A multiprocessor system for real-time robotic control. Information Sciences, 1988, 44, 225-247.	4.0	6
188	SIERA: A Multiprocessor System For Robotics. , 1987, , .		2