

Klaus Radermacher

List of Publications by Year in descending order

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Version: 2024-02-01

261
papers

2,884
citations

279487

23
h-index

223531

46
g-index

300
all docs

300
docs citations

300
times ranked

2458
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of the underlying cadaver data and patient-specific adaptation of the femur and pelvis on the prediction of the hip joint force estimated using static models. <i>Journal of Biomechanics</i> , 2022, 139, 110526.	0.9	3
2	Investigation of morphotypes of the knee using cluster analysis. <i>Knee</i> , 2022, 35, 157-163.	0.8	3
3	Implications of the uncertainty of postoperative functional parameters for the preoperative planning of total hip arthroplasty. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2656-2662.	1.2	2
4	A mechatronic test-bench to investigate the impact of ventricular pulsation in hydrocephalus. <i>Biomedical Signal Processing and Control</i> , 2022, 75, 103579.	3.5	1
5	Non-invasive and reliable assessment of compartment elasticity by pressure related ultrasound: An in-vitro study. <i>Injury</i> , 2021, 52, 724-730.	0.7	5
6	MINARO HD: control and evaluation of a handheld, highly dynamic surgical robot. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 467-474.	1.7	2
7	Ultrasound-based Navigation of Scaphoid Fracture Surgery. <i>Informatik Aktuell</i> , 2021, , 28-33.	0.4	1
8	Relationship between the form and function of implant design in total knee replacement. <i>Journal of Biomechanics</i> , 2021, 119, 110296.	0.9	10
9	Semi-automated stair climbing of a wheel hub-based patient transportation aid for emergency medical services. <i>Automatisierungstechnik</i> , 2021, 69, 550-561.	0.4	0
10	Scanning of a Dental Implant with a High-Frequency Ultrasound Scanner: A Pilot Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5494.	1.3	3
11	Variation of the Three-Dimensional Femoral J-Curve in the Native Knee. <i>Journal of Personalized Medicine</i> , 2021, 11, 592.	1.1	7
12	Segmentation of the Scaphoid Bone in Ultrasound Images. <i>Current Directions in Biomedical Engineering</i> , 2021, 7, 76-80.	0.2	3
13	The Patient-Specific Combined Target Zone for Morpho-Functional Planning of Total Hip Arthroplasty. <i>Journal of Personalized Medicine</i> , 2021, 11, 817.	1.1	10
14	Design and Evaluation of a Novel Instrument Gripper for Handling of Surgical Instruments. <i>Current Directions in Biomedical Engineering</i> , 2021, 7, 1-5.	0.2	4
15	Validation of Automated Ultrasound-based Registration for Navigated Scaphoid Fixation. <i>Current Directions in Biomedical Engineering</i> , 2021, 7, 116-120.	0.2	1
16	Usability of Haptic Volumetric Assistance for Surgical Navigation Tasks. <i>Current Directions in Biomedical Engineering</i> , 2021, 7, 11-16.	0.2	0
17	Evaluation of a novel stair-climbing transportation aid for emergency medical services. <i>Biomedizinische Technik</i> , 2021, 66, 323-333.	0.9	2
18	Usability of cooperative surgical telemanipulation for bone milling tasks. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 311-322.	1.7	2

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19	Hybrid test bench for high repetition rate radial shock wave measurement. <i>Current Directions in Biomedical Engineering</i> , 2021, 7, 395-398.	0.2	3
20	Non-invasive measurement of muscle compartment elasticity in lower limbs to determine acute compartment syndrome: Clinical results with pressure related ultrasound. <i>Injury</i> , 2020, 51, 301-306.	0.7	11
21	Preoperative factors improving the prediction of the postoperative sagittal orientation of the pelvis in standing position after total hip arthroplasty. <i>Scientific Reports</i> , 2020, 10, 15944.	1.6	5
22	A robust method for automatic identification of femoral landmarks, axes, planes and bone coordinate systems using surface models. <i>Scientific Reports</i> , 2020, 10, 20859.	1.6	9
23	Magnetic resonance imaging of human knee joint functionality under variable compressive in-situ loading and axis alignment. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103890.	1.5	10
24	Evaluation and validation of 2D biomechanical models of the knee for radiograph-based preoperative planning in total knee arthroplasty. <i>PLoS ONE</i> , 2020, 15, e0227272.	1.1	0
25	Augmentation of haptic feedback for teleoperated robotic surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 515-529.	1.7	11
26	Segmentation of the distal femur in ultrasound images. <i>Current Directions in Biomedical Engineering</i> , 2020, 6, .	0.2	5
27	Operationssaal und Klinik 4.0“ Der OR.NET Ansatz. , 2020, , 1053-1075.		0
28	Conceptual design of force reflection control for teleoperated bone surgery. <i>Current Directions in Biomedical Engineering</i> , 2020, 6, .	0.2	0
29	Catalogue of hazards: a fundamental part for the safe design of surgical robots. <i>Current Directions in Biomedical Engineering</i> , 2020, 6, .	0.2	1
30	Multimodal Touchless Human Machine Interface for an IEEE 11073 SDC Interconnected Surgical Workstation. , 2020, , .		0
31	Workflow and Human-Centered Risk Analysis for Novel Mechatronic Rescue Aids II.. <i>Current Directions in Biomedical Engineering</i> , 2020, 6, 616-619.	0.2	0
32	Workflow and Human-Centered Risk Analysis for Novel Mechatronic Rescue Aids I.. <i>Current Directions in Biomedical Engineering</i> , 2020, 6, 612-615.	0.2	0
33	Development and Evaluation of a Tablet-Control for a Surgical Workstation in the Open Integrated Operating Room. <i>Lecture Notes in Computer Science</i> , 2019, , 406-419.	1.0	0
34	SEBARES - Design and Evaluation of a Controller for a novel externally guided self-balancing patient rescue aid. , 2019, , .		4
35	A robust method for automatic identification of landmarks on surface models of the pelvis. <i>Scientific Reports</i> , 2019, 9, 13322.	1.6	13
36	Evaluation of Different Modes of Haptic Guidance for Robotic Surgery. <i>IFAC-PapersOnLine</i> , 2019, 51, 97-103.	0.5	7

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37	Modelling patient dynamics and controller impact analysis for a novel self-stabilizing patient transport aid. IFAC-PapersOnLine, 2019, 51, 208-213.	0.5	4
38	High-Frequency Ultrasound for Assessment of Peri-Implant Bone Thickness. Journal of Clinical Medicine, 2019, 8, 1539.	1.0	4
39	Enhanced in vitro model of the CSF dynamics. Fluids and Barriers of the CNS, 2019, 16, 11.	2.4	23
40	Toward versatile cooperative surgical robotics: a review and future challenges. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1673-1686.	1.7	30
41	Assessment of Buccal Bone Surrounding Dental Implants Using a High-Frequency Ultrasound Scanner. Ultrasound in Medicine and Biology, 2019, 45, 1427-1434.	0.7	12
42	Impact of an uncooperative passenger on the control of an externally guided self-balancing patient-transport system. , 2019, 2019, 5278-5282.		2
43	Accuracy of High-Frequency Ultrasound Scanner in Detecting Peri-implant Bone Defects. Ultrasound in Medicine and Biology, 2019, 45, 650-659.	0.7	6
44	Impression of Subgingival Dental Preparation Can Be Taken with Ultrasound. Ultrasound in Medicine and Biology, 2019, 45, 558-567.	0.7	10
45	Calculation of impingement-free combined cup and stem alignments based on the patient-specific pelvic tilt. Journal of Biomechanics, 2019, 82, 193-203.	0.9	15
46	Users' Awareness of Alarm Settings. Advances in Intelligent Systems and Computing, 2019, , 453-464.	0.5	1
47	Haptic Modes for Multiparameter Control in Robotic Surgery. Lecture Notes in Computer Science, 2019, , 173-181.	1.0	1
48	Impact of scapholunate dissociation on human wrist kinematics. Journal of Hand Surgery: European Volume, 2018, 43, 179-186.	0.5	10
49	A new approach for safe planning transfer using semi-automatically adjustable instrument guides. International Journal of Medical Robotics and Computer Assisted Surgery, 2018, 14, e1907.	1.2	0
50	Motion Analysis of the Left Ventricle of a Human Heart for Realization in a Cardiovascular Mock-Loop. Mechanisms and Machine Science, 2018, , 17-29.	0.3	0
51	Extended device profiles and testing procedures for the approval process of integrated medical devices using the IEEE 11073 communication standard. Biomedizinische Technik, 2018, 63, 95-103.	0.9	9
52	OR.NET RT: how service-oriented medical device architecture meets real-time communication. Biomedizinische Technik, 2018, 63, 81-93.	0.9	4
53	Effects of the medial and lateral tibial slope on knee joint kinematics in total knee arthroplasty. Current Directions in Biomedical Engineering, 2018, 4, 207-211.	0.2	2
54	Postural workloads on paramedics during patient transport. Current Directions in Biomedical Engineering, 2018, 4, 161-164.	0.2	10

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55	Experimental setup for evaluation of cavitation effects in ESWL. Current Directions in Biomedical Engineering, 2018, 4, 191-194.	0.2	3
56	Development of a Stair Climbing Mechanism for a Novel Mechatronic Transport Aid: Preliminary Results. Current Directions in Biomedical Engineering, 2018, 4, 283-286.	0.2	4
57	Accuracy of single crowns fabricated from ultrasound digital impressions. Dental Materials, 2018, 34, e280-e288.	1.6	27
58	Modular design of versatile surgical mini-robots. Current Directions in Biomedical Engineering, 2018, 4, 411-414.	0.2	2
59	Usability Evaluation of a One-Handed Touchbased OR-Table Control. Current Directions in Biomedical Engineering, 2018, 4, 157-160.	0.2	0
60	Patient-specific musculoskeletal modeling of the hip joint for preoperative planning of total hip arthroplasty: A validation study based on in vivo measurements. PLoS ONE, 2018, 13, e0195376.	1.1	24
61	Gender differences in knee morphology and the prospects for implant design in total knee replacement. Knee, 2018, 25, 545-558.	0.8	32
62	Further Development and Evaluation of a Universal Foot Switch for Diverse Medical Disciplines within the Framework of an Open Integration Concept for the Operation Theatre of the Future. Advances in Intelligent Systems and Computing, 2018, , 438-449.	0.5	3
63	Assessment of cortical bone thickness using ultrasound. Clinical Oral Implants Research, 2017, 28, 520-528.	1.9	22
64	Estimation of Penetrated Bone Layers During Craniotomy via Bioimpedance Measurement. IEEE Transactions on Biomedical Engineering, 2017, 64, 765-774.	2.5	7
65	Smart bioimpedance-controlled craniotomy: Concept and first experiments. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 673-680.	1.0	5
66	Intra-procedural determination of viability by myocardial deformation imaging: a randomized prospective study in the cardiac catheter laboratory. Clinical Research in Cardiology, 2017, 106, 629-644.	1.5	3
67	The Role of a Dynamic Craniospinal Compliance in NPH – A Review and Future Challenges. IEEE Reviews in Biomedical Engineering, 2017, 10, 310-322.	13.1	5
68	Functional modeling of the craniospinal system for in-vitro parameter studies on the pathogenesis of NPH. Current Directions in Biomedical Engineering, 2017, 3, 825-828.	0.2	2
69	The Smart Operating Room: smartOR. , 2017, , 291-315.		3
70	Technical concept and evaluation of a novel shoulder simulator with adaptive muscle force generation and free motion. Current Directions in Biomedical Engineering, 2016, 2, 61-65.	0.2	3
71	Rapid prototyping of replica knee implants for in vitro testing. Current Directions in Biomedical Engineering, 2016, 2, 553-556.	0.2	6
72	A biomechanical model of the wrist joint for patient-specific model guided surgical therapy: Part 2. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 326-334.	1.0	15

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73	Development and experimental evaluation of an alarm concept for an integrated surgical workstation. Biomedizinische Technik, 2016, 61, 199-209.	0.9	5
74	Special Issue Risk management in medical human-machine systems. Biomedizinische Technik, 2016, 61, 133-4.	0.9	0
75	In-vitro cell treatment with focused shockwavesâinfluence of the experimental setup on the sound field and biological reaction. Journal of Therapeutic Ultrasound, 2016, 4, 10.	2.2	17
76	Human-centered risk management for medical devices â new methods and tools. Biomedizinische Technik, 2016, 61, 165-81.	0.9	7
77	A Configurable Footswitch Unit for the Open Networked Neurosurgical OR â Development, Evaluation and Future Perspectives. I-com, 2016, 15, 227-247.	0.9	7
78	Analysis of wrist bone motion before and after SL-ligament resection. Biomedizinische Technik, 2016, 61, 345-357.	0.9	13
79	Bottlenecks and needs in human-human and human-machine interaction â a view from and into the neurosurgical OR. Biomedizinische Technik, 2016, 61, 135-46.	0.9	6
80	Development of a biomechanical model of the wrist joint for patient-specific model guided surgical therapy planning: Part 1. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 310-325.	1.0	24
81	Modular user interface design for integrated surgical workplaces. Biomedizinische Technik, 2016, 61, 183-97.	0.9	8
82	Distortion reduction for a dental HFUS microscanning device. , 2015, , .		0
83	Combined magnetic resonance imaging approach for the assessment of in vivo knee joint kinematics under full weight-bearing conditions. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 439-451.	1.0	7
84	Biomechanical model of cerebral vascular dynamics and their effect on CSF dynamics. Fluids and Barriers of the CNS, 2015, 12, P14.	2.4	0
85	Device- and service profiles for integrated or systems based on open standards. Current Directions in Biomedical Engineering, 2015, 1, 538-542.	0.2	4
86	Electrical Bioimpedance-Controlled Surgical Instrumentation. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 743-750.	2.7	7
87	Modelling and Understanding Normal Pressure Hydrocephalus. IFMBE Proceedings, 2015, , 333-337.	0.2	1
88	High-Frequency Ultrasound as an Option for Scanning ofÂPrepared Teeth: An inÂVitro Study. Ultrasound in Medicine and Biology, 2015, 41, 309-316.	0.7	17
89	Fusion of coronary angiography and stress echocardiography for myocardial viability evaluation. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 11-17.	1.7	6
90	Development of Device-and Service-Profiles for a Safe and Secure Interconnection of Medical Devices in the Integrated Open OR. Lecture Notes in Computer Science, 2015, , 65-74.	1.0	4

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91	TPS-RPM based segmentation of three-dimensional high frequency ultrasound SAFT images for CAD/CAM based tooth digitization. , 2014, , .		1
92	Smart Trepanation System: Preclinical Analysis of Safety, Efficiency, and User Satisfaction. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2014, 75, 398-402.	0.4	0
93	An ultrasonic micro-scanner for thickness assessment of the vestibular jawbone: In-vitro accuracy evaluation. , 2014, , .		1
94	Myocardial effects of local shock wave therapy in a Langendorff model. Ultrasonics, 2014, 54, 131-136.	2.1	20
95	Control of an Electromechanical Hydrocephalus Shuntâ€”a New Approach. IEEE Transactions on Biomedical Engineering, 2014, 61, 2379-2388.	2.5	11
96	Track G. Biomedizinische Technik, 2014, 59, s439-70.	0.9	1
97	Analyzing the Benefits of Integrative Multi-Dimensional Assessments of Usability Features in Interaction-Centered User Studies. , 2014, , .		1
98	Soft tissue-preserving computer-aided impression: a novel concept using ultrasonic 3D-scanning. International Journal of Computerized Dentistry, 2014, 17, 277-96.	0.2	10
99	Simplified detection of myocardial ischemia by seismocardiography. Herz, 2013, 39, 586-92.	0.4	21
100	Recent advances of ultrasound imaging in dentistry â€” a review of the literature. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2013, 115, 819-832.	0.2	93
101	Accuracy assessment of high frequency 3D ultrasound for digital impression-taking of prepared teeth. Proceedings of SPIE, 2013, , .	0.8	3
102	Model based assessment of vestibular jawbone thickness using high frequency 3D ultrasound micro-scanning. Proceedings of SPIE, 2013, , .	0.8	3
103	Automatisierungstechnische Methoden fÃ¼r die Medizin. Automatisierungstechnik, 2013, 61, 619-620.	0.4	0
104	Analyse der Regelungsstrategien eines Osteotomie-Instruments auf Basis multimodaler Informationen / Analysis of the Control Strategies of an Instrument for Osteotomy on the Basis of Multimodal Information. Automatisierungstechnik, 2013, 61, 656-664.	0.4	0
105	Patient safety related to the use of medical devices: a review and investigation of the current status in the medical device industry. Biomedizinische Technik, 2013, 58, 67-78.	0.9	9
106	Robust Control of Intracranial Pressure with an Electromechanical Extra-ventricular Drainage. , 2013, , .		1
107	First Results of a New Electromechanical Controlled External Ventricular Drainage in a Porcine Model. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	0
108	The Q-Angle and its Effect on Active Knee Joint Kinematics â€” a Simulation Study. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	3

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109	Evaluation of Biomechanical Models for the Planning of Total Hip Arthroplasty. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	3
110	Renaissance of Computer-Assisted Orthopedic Surgery with Individual Templates: Evolution or Revolution?. , 2013, , 11-21.		2
111	A new knowledge-based risk control method for risk sensitive devices. WIT Transactions on the Built Environment, 2013, , .	0.0	0
112	Modular design of a miniaturized surgical robot system. Biomedizinische Technik, 2012, 57, 261-8.	0.9	5
113	Computer-assisted orthopedic surgery. Biomedizinische Technik, 2012, 57, 207.	0.9	4
114	A new approach to implant alignment and ligament balancing in total knee arthroplasty focussing on joint loads. Biomedizinische Technik, 2012, 57, 283-91.	0.9	7
115	Ultrasound and optically controlled robotic instrument for re sternotomy in cardiothoracic surgery. , 2012, , .		0
116	Single pulse analysis of intracranial pressure for a hydrocephalus implant. , 2012, 2012, 3939-42.		13
117	Using analytical redundancy to increase safety of a synergistic manually guided instrument for craniotomy. , 2012, 2012, 912-5.		0
118	A voice-coil actuated ultrasound micro-scanner for intraoral high resolution impression taking. , 2012, , .		4
119	Application and evaluation of biomechanical models and scores for the planning of total hip arthroplasty. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 955-967.	1.0	10
120	Ultrasound-based registration of the pelvic coordinate system in the lateral position using symmetry for total hip replacement. Biomedizinische Technik, 2012, 57, 239-48.	0.9	1
121	An ICP variant with anisotropic weighting to accommodate measurement errors in A-Mode ultrasound-based registration. Biomedizinische Technik, 2012, 57, 249-60.	0.9	2
122	Integrating medical devices in the operating room using service-oriented architectures. Biomedizinische Technik, 2012, 57, 221-8.	0.9	4
123	A Novel Concept for Smart Trepanation. Journal of Craniofacial Surgery, 2012, 23, 309-314.	0.3	11
124	Sensitivity analysis of synthetic aperture focusing based on the virtual source point for high-frequency ultrasound imaging. , 2012, , .		1
125	Femoral Test Bed for Impedance Controlled Surgical Instrumentation. Acta Polytechnica, 2012, 52, .	0.3	2
126	Evaluation of a fluoroscopy-based navigation system enabling a virtual radiation-free preview of X-ray images for placement of cannulated hip screws. A cadaver study. Computer Aided Surgery, 2011, 16, 22-31.	1.8	13

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127	Evaluation of a synergistic handheld instrument for resection controlled by an integrated optical sensor. , 2011, 2011, 7368-71.		1
128	High frequency (75MHz) ultrasound based tooth digitization using sparse spatial compounding. , 2011, , .		5
129	Concept and evaluation of a synergistic controlled robotic instrument for trepanation in neurosurgery. , 2011, , .		7
130	Evaluation of a new computer-assisted surgical planning and navigation system based on two-dimensional fluoroscopy for insertion of a proximal femoral nail. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2011, 225, 477-486.	1.0	0
131	Brain Pressure Dynamics and Control with an External Ventricular Drainage. IFMBE Proceedings, 2011, , 315-318.	0.2	4
132	Trackerless ultrasound-integrated bone cement detection using a modular minirobot in revision total hip replacement. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 681-690.	1.0	6
133	System architecture of ultrasound-based real-time bone thickness determination for synergistically operated cutting tools. , 2010, , .		0
134	Integration of model-based weighting into an ICP variant to account for measurement errors in intra-operative A-Mode ultrasound-based registration. , 2010, 2010, 6264-7.		2
135	Optical sensors for a synergistically controlled osteotomy system. , 2010, , .		1
136	Evaluation of a synergistically controlled semiautomatic trepanation system for neurosurgery. , 2010, 2010, 2304-7.		1
137	Robot- and computer-assisted craniotomy (CRANIO): From active systems to synergistic man-machine interaction. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 441-452.	1.0	25
138	Robot- and computer-assisted craniotomy (CRANIO): From active systems to synergistic man-machine interaction. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 651-651.	1.0	1
139	Registration method for displaying electromagnetically tracked devices in fluoroscopic images. , 2010, 2010, 3719-22.		2
140	Real-time determination of skull thickness for a manually-navigated synergistic trepanation tool. , 2010, 2010, 2300-3.		3
141	Assessment of optical localizer accuracy for computer aided surgery systems. Computer Aided Surgery, 2010, 15, 1-12.	1.8	103
142	Evaluation of a new fluoroscopy-based navigation system in the placement of the femoral component in hip resurfacing. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 565-576.	1.0	1
143	Robot integrated ultrasound geometry-scanning for trackerless bone cement detection in RTHR. , 2010, , .		1
144	A New Model-Based Approach for the User Interface Design of Medical Systems and Devices. Advances in Human Factors and Ergonomics Series, 2010, , 499-508.	0.2	1

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145	Surface-based determination of the pelvic coordinate system. Proceedings of SPIE, 2009, , .	0.8	3
146	Bewertung sicherheitskritischer Systeme im OperationssaalEvaluation of Risk-Sensitive Systems in the OR. I-com, 2009, 8, 32-37.	0.9	1
147	Fast and accurate registration of cranial CT images with A-mode ultrasound. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 225-237.	1.7	12
148	Sensor integrated tibial inlay for soft-tissue balancing. Procedia Chemistry, 2009, 1, 1251-1254.	0.7	1
149	Knowledge-based OR table positioning assistant for orthopedic surgery. IFMBE Proceedings, 2009, , 1676-1678.	0.2	3
150	User-Interaction of a Semiautomatic Trepanation System. IFMBE Proceedings, 2009, , 173-176.	0.2	5
151	MRI-based 3D-Modelling of Gleno-humeral Joint Deformities for Functional Surgical Planning. IFMBE Proceedings, 2009, , 600-603.	0.2	0
152	Synergistic CT based tele-manipulator for needle placement in spine procedures. IFMBE Proceedings, 2009, , 1683-1686.	0.2	0
153	A Symmetry-Based Approach for Non-invasive Determination of the Pelvic Coordinate System Using Ultrasound with the Patient in the Lateral Position. IFMBE Proceedings, 2009, , 311-313.	0.2	0
154	A new Intra-Articular Load Measuring Device for Ligament Balancing and Prosthesis Alignment in Total Knee Arthroplasty. IFMBE Proceedings, 2009, , 331-332.	0.2	0
155	Determination of the Mechanical Leg Axis Using a Force-Torque Sensor. IFMBE Proceedings, 2009, , 1532-1535.	0.2	2
156	Automatic extraction of the mid-sagittal plane using an ICP variant. Proceedings of SPIE, 2008, , .	0.8	2
157	Using cognitive task analysis for UI design in surgical work systems. , 2008, , .		1
158	Computer-assisted single- or double-cut oblique osteotomies for the correction of lower limb deformities. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2007, 221, 787-800.	1.0	10
159	Predictive sensor based x-ray calibration using a physical model. Medical Physics, 2007, 34, 1153-1162.	1.6	0
160	Fluoroscopic navigation system for hip surface replacement. Computer Aided Surgery, 2007, 12, 160-167.	1.8	23
161	Assessment and treatment of glenohumeral joint deformities in children suffering from upper obstetric brachial plexus palsy. Journal of Pediatric Orthopaedics Part B, 2007, 16, 243-251.	0.3	24
162	A-mode ultrasound-based intra-femoral bone cement detection and 3D reconstruction in RTHR. Computer Aided Surgery, 2007, 12, 168-175.	1.8	5

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163	Statistical validation metric for accuracy assessment in medical image segmentation. International Journal of Computer Assisted Radiology and Surgery, 2007, 2, 169-181.	1.7	74
164	Cognitive Task Analysis for Prospective Usability Evaluation in Computer-Assisted Surgery. , 2007, , 349-356.		5
165	Fluoroscopic navigation system for hip surface replacement. Computer Aided Surgery, 2007, 12, 160-167.	1.8	5
166	A-mode ultrasound-based intra-femoral bone cement detection and 3D reconstruction in RTHR. Computer Aided Surgery, 2007, 12, 168-175.	1.8	0
167	A software framework for the development of Web-based medical education using learning object classes. Informatics for Health and Social Care, 2006, 31, 9-22.	1.0	5
168	Robot- and computer-assisted craniotomy: resection planning, implant modelling and robot safety. International Journal of Medical Robotics and Computer Assisted Surgery, 2006, 2, 168-178.	1.2	44
169	Surgical Robotics and Instrumentation. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 201-228.	1.7	5
170	5th CARS/SPIE Joint Workshop on Surgical PACS and the Digital Operating Room. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 437-454.	1.7	9
171	Analysis of Surgical Management of Calvarial Tumours and First Results of a Newly Designed Robotic Trepanation System. Minimally Invasive Neurosurgery, 2006, 49, 98-103.	0.9	10
172	Anatomically Constrained Deformation for Design of Cranial Implant: Methodology and Validation. Lecture Notes in Computer Science, 2006, 9, 9-16.	1.0	11
173	Combined Endo- and Exoscopic Semi-robotic Manipulator System for Image Guided Operations. Lecture Notes in Computer Science, 2006, 9, 511-518.	1.0	5
174	Modeling of Intensity Priors for Knowledge-Based Level Set Algorithm in Calvarial Tumors Segmentation. Lecture Notes in Computer Science, 2006, 9, 864-871.	1.0	3
175	Knowledge-Based Segmentation of Calvarial Tumors in Computed Tomography Images. , 2006, , 151-155.		3
176	User-interactive registration of bone with A-mode ultrasound. IEEE Engineering in Medicine and Biology Magazine, 2005, 24, 85-95.	1.1	23
177	Fluoroscopy-Based 3-D Reconstruction of Femoral Bone Cement: A New Approach for Revision Total Hip Replacement. IEEE Transactions on Biomedical Engineering, 2005, 52, 664-675.	2.5	22
178	Multimodal user interface for a semi-robotic visual assistance system for image guided neurosurgery. International Congress Series, 2005, 1281, 624-629.	0.2	6
179	Efficient non-invasive registration with A-mode ultrasound in skull surgery. International Congress Series, 2005, 1281, 821-826.	0.2	2
180	Computer-assisted optimization of correction osteotomies on lower extremities. Computer Aided Surgery, 2005, 10, 345-350.	1.8	2

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181	Evaluation of deformable models for femoral neck surgery. <i>Computer Aided Surgery</i> , 2004, 9, 71-79.	1.8	6
182	3D reconstruction and navigated removal of femoral bone cement in revision THR based on few fluoroscopic images. <i>International Congress Series</i> , 2004, 1268, 626-631.	0.2	2
183	The usability of CAS systems: an Internet-based survey. <i>International Congress Series</i> , 2004, 1268, 819-823.	0.2	0
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