Leo Joskowicz

List of Publications by Year
in descending order

186 papers	3,854 citations	136950 32 h-index	175258 52 g-index
192 all docs	192 docs citations	192 times ranked	3543 citing authors

#	ARTICLE	IF	CITATIONS
1	Bone-mounted miniature robot for surgical procedures: concept and clinical applications. IEEE Transactions on Automation Science and Engineering, 2003, 19, 893-901.	2.3	247
2	Gradient-based 2-D/3-D rigid registration of fluoroscopic X-ray to CT. IEEE Transactions on Medical Imaging, 2003, 22, 1395-1406.	8.9	147
3	Current state of computer navigation and robotics in unicompartmental and total knee arthroplasty: a systematic review with meta-analysis. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 3482-3495.	4.2	142
4	Inter-observer variability of manual contour delineation of structures in CT. European Radiology, 2019, 29, 1391-1399.	4.5	127
5	A CT-Based High-Order Finite Element Analysis of the Human Proximal Femur Compared to In-vitro Experiments. Journal of Biomechanical Engineering, 2007, 129, 297-309.	1.3	123
6	Computer-integrated revision total hip replacement surgery: concept and preliminary results. Medical Image Analysis, 1999, 3, 301-319.	11.6	107
7	Computational kinematics. Artificial Intelligence, 1991, 51, 381-416.	5.8	99
8	FRACAS: a System for Computer-Aided Image-Guided Long Bone Fracture Surgery. Computer Aided Surgery, 1998, 3, 271-288.	1.8	99
9	Localization and registration accuracy in image guided neurosurgery: a clinical study. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 45-52.	2.8	79
10	Evaluation framework for carotid bifurcation lumen segmentation and stenosis grading. Medical Image Analysis, 2011, 15, 477-488.	11.6	70
11	Surface-based facial scan registration in neuronavigation procedures: a clinical study. Journal of Neurosurgery, 2009, 111, 1201-1206.	1.6	66
12	Automatic segmentation, internal classification, and follow-up of optic pathway gliomas in MRI. Medical Image Analysis, 2012, 16, 177-188.	11.6	64
13	Precise robot-assisted guide positioning for distal locking of intramedullary nails. IEEE Transactions on Medical Imaging, 2005, 24, 624-635.	8.9	62
14	Automatic detection of new tumors and tumor burden evaluation in longitudinal liver CT scan studies. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1945-1957.	2.8	61
15	FRACAS: A system for computer-aided image-guided long bone fracture surgery. Computer Aided Surgery, 1998, 3, 271-288.	1.8	59
16	Fiducial Optimization for Minimal Target Registration Error in Image-Guided Neurosurgery. IEEE Transactions on Medical Imaging, 2012, 31, 725-737.	8.9	55
17	FRACAS: A system for computer–aided image–guided long bone fracture surgery. Computer Aided Surgery, 1998, 3, 271-288.	1.8	54
18	Automated modeling and kinematic simulation of mechanisms. CAD Computer Aided Design, 1993, 25, 106-118.	2.7	50

#	Article	IF	Citations
19	Parametric kinematic tolerance analysis of general planar systems. CAD Computer Aided Design, 1998, 30, 707-714.	2.7	48
20	Reduced risk trajectory planning in image‐guided keyhole neurosurgery. Medical Physics, 2012, 39, 2885-2895.	3.0	46
21	Robotic assisted spinal surgery–from concept to clinical practice. Computer Aided Surgery, 2007, 12, 105-115.	1.8	44
22	Haptic computer-assisted patient-specific preoperative planning for orthopedic fractures surgery. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1535-1546.	2.8	43
23	Robotic assisted spinal surgery-from concept to clinical practice. Computer Aided Surgery, 2007, 12, 105-115.	1.8	43
24	Image-guided system with miniature robot for precise positioning and targeting in keyhole neurosurgery. Computer Aided Surgery, 2006, 11, 181-193.	1.8	42
25	Registration of a CT-like atlas to fluoroscopic X-ray images using intensity correspondences. International Journal of Computer Assisted Radiology and Surgery, 2008, 3, 493-504.	2.8	42
26	Computer Aided Orthopaedic Surgery: Incremental shift or paradigm change?. Medical Image Analysis, 2016, 33, 84-90.	11.6	42
27	Kinematic tolerance analysis. CAD Computer Aided Design, 1997, 29, 147-157.	2.7	39
28	Computational Kinematic Analysis of Higher Pairs with Multiple Contacts. Journal of Mechanical Design, Transactions of the ASME, 1995, 117, 269-277.	2.9	38
29	Long Bone Panoramas From Fluoroscopic X-Ray Images. IEEE Transactions on Medical Imaging, 2004, 23, 26-35.	8.9	37
30	Liver tumors segmentation from CTA images using voxels classification and affinity constraint propagation. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 247-255.	2.8	36
31	Parametric kinematic tolerance analysis of planar mechanisms. CAD Computer Aided Design, 1997, 29, 333-342.	2.7	35
32	Patient-specific and global convolutional neural networks for robust automatic liver tumor delineation in follow-up CT studies. Medical and Biological Engineering and Computing, 2018, 56, 1699-1713.	2.8	35
33	Interference-Free Insertion of a Solid Body Into a Cavity: An Algorithm and a Medical Application. International Journal of Robotics Research, 1996, 15, 211-229.	8.5	33
34	An iterative Bayesian approach for nearly automatic liver segmentation: algorithm and validation. International Journal of Computer Assisted Radiology and Surgery, 2008, 3, 439-446.	2.8	33
35	Acetabular orientation variability and symmetry based on CT scans of adults. International Journal of Computer Assisted Radiology and Surgery, 2010, 5, 449-454.	2.8	33
36	Robust Automatic C-Arm Calibration for Fluoroscopy-Based Navigation: A Practical Approach. Lecture Notes in Computer Science, 2002, , 60-68.	1.3	32

#	Article	IF	Citations
37	Computer-Based Periaxial Rotation Measurement for Aligning Fractured Femur Fragments from CT: A Feasibility Study. Computer Aided Surgery, 2002, 7, 332-341.	1.8	32
38	Solving Systems of Difference Constraints Incrementally. Algorithmica, 1999, 23, 261-275.	1.3	29
39	Non-parametric Iterative Model Constraint Graph min-cut for Automatic Kidney Segmentation. Lecture Notes in Computer Science, 2010, 13, 73-80.	1.3	28
40	Automatic Liver Tumor Segmentation in Follow-Up CT Scans: Preliminary Method and Results. Lecture Notes in Computer Science, 2015, , 54-61.	1.3	28
41	Tolerance envelopes of planar mechanical parts with parametric tolerances. CAD Computer Aided Design, 2005, 37, 531-544.	2.7	27
42	fMRI-Based Hierarchical SVM Model for the Classification and Grading of Liver Fibrosis. IEEE Transactions on Biomedical Engineering, 2011, 58, 2574-2581.	4.2	27
43	Geometrical analysis of registration errors in point-based rigid-body registration using invariants. Medical Image Analysis, 2011, 15, 85-95.	11.6	27
44	Validation of a stereo camera system to quantify brain deformation due to breathing and pulsatility. Medical Physics, 2014, 41, 113502.	3.0	27
45	A Method for Planning Safe Trajectories in Image-Guided Keyhole Neurosurgery. Lecture Notes in Computer Science, 2010, 13, 457-464.	1.3	27
46	Segmentation of microcalcification in X-ray mammograms using entropy thresholding. , 2002, , 671-676.		25
47	The effect of chemotherapy on optic pathway gliomas and their sub€components: A volumetric MR analysis study. Pediatric Blood and Cancer, 2015, 62, 1353-1359.	1.5	25
48	Computer-aided surgery meets predictive, preventive, and personalized medicine. EPMA Journal, 2017, 8, 1-4.	6.1	24
49	Effective Intensity-Based 2D/3D Rigid Registration between Fluoroscopic X-Ray and CT. Lecture Notes in Computer Science, 2003, , 351-358.	1.3	23
50	Trajectory planning with Augmented Reality for improved risk assessment in image-guided keyhole neurosurgery. , 2011, , .		23
51	Semiautomatic segmentation and follow-up of multicomponent low-grade tumors in longitudinal brain MRI studies. Medical Physics, 2014, 41, 052303.	3.0	23
52	A representation language for mechanical behavior. Advanced Engineering Informatics, 1996, 10, 109-116.	0.5	22
53	AN iterative model-constrained graph-cut algorithm for Abdominal Aortic Aneurysm thrombus segmentation. , 2010, , .		22
54	Microelectrode Recording Duration and Spatial Density Constraints for Automatic Targeting of the Subthalamic Nucleus. Stereotactic and Functional Neurosurgery, 2012, 90, 325-334.	1.5	22

#	Article	IF	Citations
55	The role of automatic computer-aided surgical trajectory planning in improving the expected safety of stereotactic neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1127-1140.	2.8	22
56	Automatic segmentation variability estimation with segmentation priors. Medical Image Analysis, 2018, 50, 54-64.	11.6	22
57	Mesh simplification with smooth surface reconstruction. CAD Computer Aided Design, 1998, 30, 875-882.	2.7	21
58	Efficient representation and computation of geometric uncertainty: The linear parametric model. Precision Engineering, 2010, 34, 2-6.	3.4	21
59	Mechanism comparison and classification for design. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 1990, 1, 149-166.	2.1	20
60	MRI internal segmentation of optic pathway gliomas: clinical implementation of a novel algorithm. Child's Nervous System, 2011, 27, 1265-1272.	1.1	20
61	A curvelet-based patient-specific prior for accurate multi-modal brain image rigid registration. Medical Image Analysis, 2011, 15, 125-132.	11.6	20
62	Coronal tibiofemoral subluxation: a new measurement method. Knee, 2014, 21, 1069-1071.	1.6	19
63	Automatic Measurement of Fetal Brain Development from Magnetic Resonance Imaging: New Reference Data. Fetal Diagnosis and Therapy, 2018, 43, 113-122.	1.4	19
64	Target and Trajectory Clinical Application Accuracy in Neuronavigation. Operative Neurosurgery, 2011, 68, ons95-ons102.	0.8	18
65	Carotid vasculature modeling from patient CT angiography studies for interventional procedures simulation. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 799-812.	2.8	18
66	Automatic detection and diagnosis of sacroiliitis in CT scans as incidental findings. Medical Image Analysis, 2019, 57, 165-175.	11.6	18
67	Efficient compositional modeling for generating causal explanations. Artificial Intelligence, 1996, 83, 193-227.	5.8	17
68	Computers in imaging and guided surgery. Computing in Science and Engineering, 2001, 3, 65-72.	1.2	17
69	Automatic lung tumor segmentation with leaks removal in follow-up CT studies. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1505-1514.	2.8	17
70	Computer-based periaxial rotation measurement for aligning fractured femur fragments from CT: A feasibility study. Computer Aided Surgery, 2002, 7, 332-341.	1.8	16
71	Dynamical Simulation of Planar Systems With Changing Contacts Using Configuration Spaces. Journal of Mechanical Design, Transactions of the ASME, 1998, 120, 181-187.	2.9	15
72	Patient specific quantitative analysis of fracture fixation in the proximal femur implementing principal strain ratios. Method and experimental validation. Journal of Biomechanics, 2010, 43, 2684-2688.	2.1	15

#	Article	IF	Citations
73	Assessment of two 3-D fluoroscopic systems for articular fracture reduction: a cadaver study. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 685-692.	2.8	15
74	A geometric method for the detection and correction of segmentation leaks of anatomical structures in volumetric medical images. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 369-380.	2.8	15
75	Three-Dimensional Analysis of Acute Scaphoid Fracture Displacement: Proximal Extension Deformity of the Scaphoid. Journal of Bone and Joint Surgery - Series A, 2017, 99, 141-149.	3.0	15
76	Automatic linear measurements of the fetal brain on MRI with deep neural networks. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1481-1492.	2.8	15
77	A Bayesian Approach for Liver Analysis: Algorithm and Validation Study. Lecture Notes in Computer Science, 2008, 11, 85-92.	1.3	15
78	Vessels-Cut: A Graph Based Approach to Patient-Specific Carotid Arteries Modeling. Lecture Notes in Computer Science, 2009, , 1-12.	1.3	15
79	Comparison of Snellen and Early Treatment Diabetic Retinopathy Study charts using a computer simulation. International Journal of Ophthalmology, 2016, 9, 119-23.	1.1	15
80	Computer-Assisted Image-Guided Intramedullary Nailing of Femoral Shaft Fractures. Techniques in Orthopaedics, 2003, 18, 191-200.	0.2	14
81	Robot-Assisted Image-Guided Targeting for Minimally Invasive Neurosurgery: Planning, Registration, and In-vitro Experiment. Lecture Notes in Computer Science, 2005, 8, 131-138.	1.3	14
82	Can a partial volume edge effect reduction algorithm improve the repeatability of subject-specific finite element models of femurs obtained from CT data?. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 204-209.	1.6	14
83	Sparse 3D Radon Space Rigid Registration of CT Scans: Method and Validation Study. IEEE Transactions on Medical Imaging, 2017, 36, 497-506.	8.9	13
84	A column-based deep learning method for the detection and quantification of atrophy associated with AMD in OCT scans. Medical Image Analysis, 2021, 72, 102130.	11.6	13
85	Automatic Segmentation and Components Classification of Optic Pathway Gliomas in MRI. Lecture Notes in Computer Science, 2010, 13, 103-110.	1.3	13
86	Computer-aided mechanical design using configuration spaces. Computing in Science and Engineering, 1999, 1, 14-21.	1.2	12
87	Comparative in vitro study of contact- and image-based rigid registration for computer-aided surgery. Computer Aided Surgery, 2002, 7, 223-236.	1.8	12
88	Accuracy of Computer-Aided Techniques in Orthopaedic Surgery. Journal of Bone and Joint Surgery - Series A, 2017, 99, e39.	3.0	12
89	An overview of computer-integrated surgery at the IBM Thomas J. Watson Research Center. IBM Journal of Research and Development, 1996, 40, 163-183.	3.1	11
90	Fluoroscopic image processing for computer-aided orthopaedic surgery. Lecture Notes in Computer Science, 1998, , 325-334.	1.3	11

#	Article	IF	Citations
91	A robot-assisted system for long bone intramedullary distal locking: concept and preliminary results. International Congress Series, 2003, 1256, 485-491.	0.2	11
92	Reasoning about the kinematics of mechanical devices. Advanced Engineering Informatics, 1989, 4, 22-31.	0.5	10
93	Configuration space computation for mechanism design. , 0, , .		10
94	Kinematic analysis of spatial fixed-axis higher pairs using configuration spaces. CAD Computer Aided Design, 2003, 35, 279-291.	2.7	10
95	Computer-aided image-guided bone fracture surgery: Modeling, visualization, and preoperative planning. Lecture Notes in Computer Science, 1998, , 29-38.	1.3	10
96	The influence of varying the number of characters per row on the accuracy and reproducibility of the ETDRS visual acuity chart. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 971-976.	1.9	9
97	A new method for the automatic retrieval of medical cases based on the RadLex ontology. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 471-484.	2.8	9
98	GPU-based 3D iceball modeling for fast cryoablation simulation and planning. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1577-1588.	2.8	9
99	Image-guided system with miniature robot for precise positioning and targeting in keyhole neurosurgery. Computer Aided Surgery, 2006, 11, 181-193.	1.8	9
100	Kinematic Synthesis. , 2001, , 321-361.		8
101	Optimal landmarks selection and fiducial marker placement for minimal target registration error in image-guided neurosurgery. Proceedings of SPIE, 2009, , .	0.8	8
102	A fully automatic end-to-end method for content-based image retrieval of CT scans with similar liver lesion annotations. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 165-174.	2.8	8
103	The effect of motion correction interpolation on quantitative T1 mapping with MRI. Medical Image Analysis, 2019, 52, 119-127.	11.6	8
104	Prediction of Brain MR Scans in Longitudinal Tumor Follow-Up Studies. Lecture Notes in Computer Science, 2012, 15, 179-187.	1.3	8
105	Understanding mechanical motion: From images to behaviors. Artificial Intelligence, 1999, 112, 147-179.	5.8	7
106	Automatic bone fracture reduction by fracture contact surface identification and registration. , 2013, , .		7
107	PNist: interactive volumetric measurements of plexiform neurofibromas in MRI scans. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 683-693.	2.8	7
108	Image-based surgery planning. , 2020, , 795-815.		7

#	Article	IF	Citations
109	Image Segmentation Errors Correction by Mesh Segmentation and Deformation. Lecture Notes in Computer Science, 2013, 16, 206-213.	1.3	7
110	Computer-Assisted Kinematic Tolerance Analysis of a Gear Selector Mechanism With the Configuration Space Method. , 1999, , .		7
111	Practical Tools for Reasoning About Linear Constraints. Fundamenta Informaticae, 1991, 15, 357-379.	0.4	7
112	Miniature robot-based precise targeting system for keyhole neurosurgery: Concept and preliminary results. International Congress Series, 2005, 1281, 618-623.	0.2	6
113	Trajectory planning method for reduced patient risk in image-guided neurosurgery: concept and preliminary results. Proceedings of SPIE, 2010, , .	0.8	6
114	Interactive segmentation of plexiform neurofibroma tissue: method and preliminary performance evaluation. Medical and Biological Engineering and Computing, 2012, 50, 877-884.	2.8	6
115	Computer-based radiological longitudinal evaluation of meningiomas following stereotactic radiosurgery. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 215-228.	2.8	6
116	A Comparison of different scoring terminations rules for visual acuity testing: from a computer simulation to a clinical study. Current Eye Research, 2019, 44, 790-795.	1.5	6
117	Carotid Lumen Segmentation and Stenosis Grading Challenge. , 2010, , .		6
118	Progression of cRORA (Complete RPE and Outer Retinal Atrophy) in Dry Age-Related Macular Degeneration Measured Using SD-OCT. Translational Vision Science and Technology, 2022, 11, 19.	2.2	6
119	Time-dependent uncertainty of critical care transitions in very old patients - lessons for time-limited trials. Journal of Critical Care, 2022, 71, 154067.	2.2	6
120	Kinematic tolerance analysis. , 1995, , .		5
121	Liver metastasis early detection using fMRI based statistical model. , 2008, , .		5
122	Worst-case analysis of target localization errors in fiducial-based rigid body registration. , 2009, , .		5
123	Uncertain lines and circles with dependencies. CAD Computer Aided Design, 2013, 45, 556-561.	2.7	5
124	Reduced-Dose Imageless Needle and Patient Tracking in Interventional CT Procedures. IEEE Transactions on Medical Imaging, 2017, 36, 2449-2456.	8.9	5
125	Computer-Based Periaxial Rotation Measurement for Aligning Fractured Femur Fragments: Method and Preliminary Results. Lecture Notes in Computer Science, 2001, , 17-23.	1.3	5
126	Anatomical Structures Segmentation by Spherical 3D Ray Casting and Gradient Domain Editing. Lecture Notes in Computer Science, 2012, 15, 363-370.	1.3	5

#	Article	IF	Citations
127	Deformable registration and region-of-interest image reconstruction in sparse repeat CT scanning. Journal of X-Ray Science and Technology, 2020, 28, 1069-1089.	1.0	5
128	Relative Positioning of Planar Parts in Toleranced Assemblies. Computer-Aided Design and Applications, 2005, 2, 675-684.	0.6	4
129	Automatic segmentation of Optic Pathway Gliomas in MRI. , 2010, , .		4
130	Spectral-based 2D/3D X-ray to CT image rigid registration. , 2011, , .		4
131	POINT SET DISTANCE AND ORTHOGONAL RANGE PROBLEMS WITH DEPENDENT GEOMETRIC UNCERTAINTIES. International Journal of Computational Geometry and Applications, 2012, 22, 517-541.	0.5	4
132	Quantitative functional MRI biomarkers improved early detection of colorectal liver metastases. Journal of Magnetic Resonance Imaging, 2014, 39, 1246-1253.	3.4	4
133	Radon Space Dose Optimization in Repeat CT Scanning. IEEE Transactions on Medical Imaging, 2017, 36, 2436-2448.	8.9	4
134	Computer-Aided Orthopedic Surgery: Incremental Shift or Paradigm Change?. Advances in Experimental Medicine and Biology, 2018, 1093, 21-30.	1.6	4
135	Medical Case-Based Retrieval of Patient Records Using the RadLex Hierarchical Lexicon. Lecture Notes in Computer Science, 2015, , 129-138.	1.3	4
136	Classification of Suspected Liver Metastases Using fMRI Images: A Machine Learning Approach. Lecture Notes in Computer Science, 2008, 11, 93-100.	1.3	4
137	Reduced-Dose Patient to Baseline CT Rigid Registration in 3D Radon Space. Lecture Notes in Computer Science, 2014, 17, 291-298.	1.3	4
138	Computer-based periaxial rotation measurement for aligning fractured femur fragments. International Congress Series, 2001, 1230, 307-313.	0.2	3
139	Anatomical image-based rigid registration between fluoroscopic X-ray and CT: methods comparison and experimental results. International Congress Series, 2003, 1256, 419-425.	0.2	3
140	Euclidean minimum spanning trees with independent and dependent geometric uncertainties. Computational Geometry: Theory and Applications, 2021, 96, 101744.	0.5	3
141	Fast GPU Computation of 3D Isothermal Volumes in the Vicinity of Major Blood Vessels for Multiprobe Cryoablation Simulation. Lecture Notes in Computer Science, 2018, , 230-237.	1.3	3
142	Principles of Computer-Aided Surgery in Trauma Surgery. , 2007, , 476-485.		3
143	An iterative Bayesian approach for liver analysis: tumors validation study. , 2008, , .		3
144	Voronoi Diagram and Delaunay Triangulation with Independent and Dependent Geometric Uncertainties. International Journal of Computational Geometry and Applications, 2021, 31, 75-121.	0.5	3

#	Article	IF	Citations
145	Efficiently testing for unboundedness and m-handed assembly. , 0, , .		2
146	Contact analysis of spatial fixed-axes pairs using configuration spaces. , 0, , .		2
147	Visualizing 3D configuration spaces for mechanical design. IEEE Computer Graphics and Applications, 1999, 19, 50-53.	1.2	2
148	Motion planning in crowded planar environments. Robotica, 1999, 17, 365-371.	1.9	2
149	How to achieve fast, accurate, and robust rigid registration between fluoroscopic X-ray and CT images. International Congress Series, 2004, 1268, 147-152.	0.2	2
150	A Novel Field-of-View Augmentation Wand for C-arm Computed Tomography-Like Fluoroscopy-Based Intraoperative Navigation New Technology. Journal of Orthopaedic Trauma, 2010, 24, 452-456.	1.4	2
151	Multi-class SVM model for fMRI-based classification and grading of liver fibrosis. , 2010, , .		2
152	Computer-assisted orthopaedic fracture reduction. Current Orthopaedic Practice, 2011, 22, 109-115.	0.2	2
153	Tumor burden evaluation in NF1 patients with plexiform neurofibromas in daily clinical practice. Acta Neurochirurgica, 2015, 157, 855-861.	1.7	2
154	The 19th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2016). Medical Image Analysis, 2017, 41, 1.	11.6	2
155	Flexible needle and patient tracking using fractional scanning in interventional CT procedures. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1039-1047.	2.8	2
156	Automatic Change Detection in Sparse Repeat CT Scanning. IEEE Transactions on Medical Imaging, 2020, 39, 48-61.	8.9	2
157	Parotid salivary ductal system segmentation and modeling in Sialo-CBCT scans. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 488-499.	1.9	2
158	Modeling and Simulation. , 2014, , 49-61.		2
159	Automatic Atlas-Free Multiorgan Segmentation of Contrast-Enhanced CT Scans. , 2017, , 145-164.		2
160	Robot-Assisted Distal Locking of Long Bone Intramedullary Nails: Localization, Registration, and In Vitro Experiments. Lecture Notes in Computer Science, 2004, , 58-65.	1.3	2
161	Improved differentiation between hypo/hypertelorism and normal fetuses based on MRI using automatic ocular biometric measurements, ocular ratios, and machine learning multi-parametric classification. European Radiology, 2023, 33, 54-63.	4.5	2
162	Dynamical simulation of assemblies of planar, 1 DOF parts with changing contacts using configuration spaces. , 0, , .		1

#	Article	IF	Citations
163	Configuration space visualization for mechanical design. , 0, , .		1
164	Understanding mechanisms: from images to behaviours. , 0, , .		1
165	Geometric computation for assembly planning with planar toleranced parts. , 0, , .		1
166	Longitudinal assessment of brain tumors using a repeatable prior-based segmentation. , 2011, , .		1
167	Robust-Seed: seed-based segmentation improvement by optimisation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 564-572.	1.9	1
168	FRACAS: a System for Computer-Aided Image-Guided Long Bone Fracture Surgery. , 0, .		1
169	Change detection in sparse repeat CT scans with non-rigid deformations. Journal of X-Ray Science and Technology, 2021, 29, 987-1007.	1.0	1
170	Towards robust kinematic synthesis of mechanical systems. , 2003, , 135-144.		1
171	Fracture-table-mounted versus bone-mounted dynamic reference frame tracking accuracy using computer-assisted orthopaedic surgery-a comparative study. Computer Aided Surgery, 2007, 12, 125-130.	1.8	1
172	Automatic Lung Tumor Segmentation with Leaks Removal in Follow-up CT Studies. Lecture Notes in Computer Science, 2014, , 92-100.	1.3	1
173	The configuration space method for kinematic tolerance analysis. , 1999, , 261-270.		1
174	Relative Positioning of Planar Parts in Toleranced Assemblies. , 2007, , 65-74.		1
175	ON SHOOTING FLIES WITH CANNON BALLS AND ELEPHANTS WITH RUBBER BANDS: A REPLY TO "PROLEGOMENA TO ANY FUTURE QUALITATIVE PHYSICS" BY E. SACKS AND J. DOYLE. Computational Intelligence, 1992, 8, 266-269.	3.2	0
176	Long bone panoramas from fluoroscopic X-ray images. International Congress Series, 2001, 1230, 520-525.	0.2	0
177	Comparative *In Vitro* Study of Contact-and Image-Based Rigid Registration for Computer-Aided Surgery. Computer Aided Surgery, 2002, 7, 223-236.	1.8	0
178	Affinity-based constraint optimization for nearly-automatic vessel segmentation. Proceedings of SPIE, 2010, , .	0.8	0
179	Plexiform neurofibroma tissue classification. Proceedings of SPIE, 2011, , .	0.8	0
180	Schizophrenia patients differentiation based on MR vascular perfusion and volumetric imaging. Proceedings of SPIE, 2015, , .	0.8	0

#	Article	IF	Citations
181	Reply to: Accuracy and reproducibility of the ETDRS visual acuity chart: methodological issues. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 2075-2075.	1.9	0
182	Guest editorial of the IJCARS MICCAI 2016 special issue. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1243-1244.	2.8	0
183	IJCARS: MICCAI 2020 special issue. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1639-1639.	2.8	0
184	Parametric Kinematic Tolerance Analysis of Planar Mechanisms. , 1998, , 308-324.		0
185	3D Modelling of the Residual Freezing for Renal Cryoablation Simulation and Prediction. Lecture Notes in Computer Science, 2019, , 209-217.	1.3	0
186	Implementation of graph-based interactive 3D vessel segmentation filter. The Insight Journal, 2010, , .	0.2	0