

Leo Joskowicz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3837232/publications.pdf>

Version: 2024-02-01

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	Improved differentiation between hypo/hypertelorism and normal fetuses based on MRI using automatic ocular biometric measurements, ocular ratios, and machine learning multi-parametric classification. <i>European Radiology</i> , 2023, 33, 54-63.	4.5	2
2	Progression of cRORA (Complete RPE and Outer Retinal Atrophy) in Dry Age-Related Macular Degeneration Measured Using SD-OCT. <i>Translational Vision Science and Technology</i> , 2022, 11, 19.	2.2	6
3	Time-dependent uncertainty of critical care transitions in very old patients - lessons for time-limited trials. <i>Journal of Critical Care</i> , 2022, 71, 154067.	2.2	6
4	Parotid salivary ductal system segmentation and modeling in Sialo-CBCT scans. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 488-499.	1.9	2
5	Euclidean minimum spanning trees with independent and dependent geometric uncertainties. <i>Computational Geometry: Theory and Applications</i> , 2021, 96, 101744.	0.5	3
6	Automatic linear measurements of the fetal brain on MRI with deep neural networks. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1481-1492.	2.8	15
7	A column-based deep learning method for the detection and quantification of atrophy associated with AMD in OCT scans. <i>Medical Image Analysis</i> , 2021, 72, 102130.	11.6	13
8	Change detection in sparse repeat CT scans with non-rigid deformations. <i>Journal of X-Ray Science and Technology</i> , 2021, 29, 987-1007.	1.0	1
9	IJCARS: MICCAI 2020 special issue. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1639-1639.	2.8	0
10	Voronoi Diagram and Delaunay Triangulation with Independent and Dependent Geometric Uncertainties. <i>International Journal of Computational Geometry and Applications</i> , 2021, 31, 75-121.	0.5	3
11	Automatic Change Detection in Sparse Repeat CT Scanning. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 48-61.	8.9	2
12	Image-based surgery planning. , 2020, , 795-815.		7
13	Deformable registration and region-of-interest image reconstruction in sparse repeat CT scanning. <i>Journal of X-Ray Science and Technology</i> , 2020, 28, 1069-1089.	1.0	5
14	Automatic detection and diagnosis of sacroiliitis in CT scans as incidental findings. <i>Medical Image Analysis</i> , 2019, 57, 165-175.	11.6	18
15	GPU-based 3D iceball modeling for fast cryoablation simulation and planning. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1577-1588.	2.8	9
16	Flexible needle and patient tracking using fractional scanning in interventional CT procedures. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1039-1047.	2.8	2
17	A Comparison of different scoring terminations rules for visual acuity testing: from a computer simulation to a clinical study. <i>Current Eye Research</i> , 2019, 44, 790-795.	1.5	6
18	Inter-observer variability of manual contour delineation of structures in CT. <i>European Radiology</i> , 2019, 29, 1391-1399.	4.5	127

#	ARTICLE	IF	CITATIONS
19	The effect of motion correction interpolation on quantitative T1 mapping with MRI. <i>Medical Image Analysis</i> , 2019, 52, 119-127.	11.6	8
20	3D Modelling of the Residual Freezing for Renal Cryoablation Simulation and Prediction. <i>Lecture Notes in Computer Science</i> , 2019, , 209-217.	1.3	0
21	Computer-based radiological longitudinal evaluation of meningiomas following stereotactic radiosurgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 215-228.	2.8	6
22	Patient-specific and global convolutional neural networks for robust automatic liver tumor delineation in follow-up CT studies. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1699-1713.	2.8	35
23	Robust-Seed: seed-based segmentation improvement by optimisation. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018, 6, 564-572.	1.9	1
24	Automatic Measurement of Fetal Brain Development from Magnetic Resonance Imaging: New Reference Data. <i>Fetal Diagnosis and Therapy</i> , 2018, 43, 113-122.	1.4	19
25	A fully automatic end-to-end method for content-based image retrieval of CT scans with similar liver lesion annotations. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 165-174.	2.8	8
26	Computer-Aided Orthopedic Surgery: Incremental Shift or Paradigm Change?. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1093, 21-30.	1.6	4
27	Automatic segmentation variability estimation with segmentation priors. <i>Medical Image Analysis</i> , 2018, 50, 54-64.	11.6	22
28	Fast GPU Computation of 3D Isothermal Volumes in the Vicinity of Major Blood Vessels for Multiprobe Cryoablation Simulation. <i>Lecture Notes in Computer Science</i> , 2018, , 230-237.	1.3	3
29	Three-Dimensional Analysis of Acute Scaphoid Fracture Displacement: Proximal Extension Deformity of the Scaphoid. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 141-149.	3.0	15
30	Accuracy of Computer-Aided Techniques in Orthopaedic Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, e39.	3.0	12
31	Computer-aided surgery meets predictive, preventive, and personalized medicine. <i>EPMA Journal</i> , 2017, 8, 1-4.	6.1	24
32	Automatic detection of new tumors and tumor burden evaluation in longitudinal liver CT scan studies. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1945-1957.	2.8	61
33	Guest editorial of the IJCARS MICCAI 2016 special issue. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 1243-1244.	2.8	0
34	The 19th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI 2016). <i>Medical Image Analysis</i> , 2017, 41, 1.	11.6	2
35	Sparse 3D Radon Space Rigid Registration of CT Scans: Method and Validation Study. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 497-506.	8.9	13
36	A new method for the automatic retrieval of medical cases based on the RadLex ontology. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017, 12, 471-484.	2.8	9

#	ARTICLE	IF	CITATIONS
37	Reduced-Dose Imageless Needle and Patient Tracking in Interventional CT Procedures. IEEE Transactions on Medical Imaging, 2017, 36, 2449-2456.	8.9	5
38	Radon Space Dose Optimization in Repeat CT Scanning. IEEE Transactions on Medical Imaging, 2017, 36, 2436-2448.	8.9	4
39	Automatic Atlas-Free Multiorgan Segmentation of Contrast-Enhanced CT Scans. , 2017, , 145-164.		2
40	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
41	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
42	Current state of computer navigation and robotics in unicompartamental and total knee arthroplasty: a systematic review with meta-analysis. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 3482-3495.	4.2	142
43	Computer Aided Orthopaedic Surgery: Incremental shift or paradigm change?. Medical Image Analysis, 2016, 33, 84-90.	11.6	42
44	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
45	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
46	The effect of chemotherapy on optic pathway gliomas and their subcomponents: A volumetric MR analysis study. Pediatric Blood and Cancer, 2015, 62, 1353-1359.	1.5	25
47	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
48	Automatic Liver Tumor Segmentation in Follow-Up CT Scans: Preliminary Method and Results. Lecture Notes in Computer Science, 2015, , 54-61.	1.3	28
49	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
50	Tumor burden evaluation in NF1 patients with plexiform neurofibromas in daily clinical practice. Acta Neurochirurgica, 2015, 157, 855-861.	1.7	2
51	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
52	Schizophrenia patients differentiation based on MR vascular perfusion and volumetric imaging. Proceedings of SPIE, 2015, , .	0.8	0
53	Medical Case-Based Retrieval of Patient Records Using the RadLex Hierarchical Lexicon. Lecture Notes in Computer Science, 2015, , 129-138.	1.3	4
54	Quantitative functional MRI biomarkers improved early detection of colorectal liver metastases. Journal of Magnetic Resonance Imaging, 2014, 39, 1246-1253.	3.4	4

#	ARTICLE	IF	CITATIONS
55	Coronal tibiofemoral subluxation: a new measurement method. <i>Knee</i> , 2014, 21, 1069-1071.	1.6	19
56	Validation of a stereo camera system to quantify brain deformation due to breathing and pulsatility. <i>Medical Physics</i> , 2014, 41, 113502.	3.0	27
57	PNist: interactive volumetric measurements of plexiform neurofibromas in MRI scans. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014, 9, 683-693.	2.8	7
58	Can a partial volume edge effect reduction algorithm improve the repeatability of subject-specific finite element models of femurs obtained from CT data?. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 204-209.	1.6	14
59	Semiautomatic segmentation and follow-up of multicomponent low-grade tumors in longitudinal brain MRI studies. <i>Medical Physics</i> , 2014, 41, 052303.	3.0	23
60	Modeling and Simulation. , 2014, , 49-61.		2
61	Reduced-Dose Patient to Baseline CT Rigid Registration in 3D Radon Space. <i>Lecture Notes in Computer Science</i> , 2014, 17, 291-298.	1.3	4
62	Automatic Lung Tumor Segmentation with Leaks Removal in Follow-up CT Studies. <i>Lecture Notes in Computer Science</i> , 2014, , 92-100.	1.3	1
63	Automatic bone fracture reduction by fracture contact surface identification and registration. , 2013, , .		7
64	Uncertain lines and circles with dependencies. <i>CAD Computer Aided Design</i> , 2013, 45, 556-561.	2.7	5
65	Image Segmentation Errors Correction by Mesh Segmentation and Deformation. <i>Lecture Notes in Computer Science</i> , 2013, 16, 206-213.	1.3	7
66	Microelectrode Recording Duration and Spatial Density Constraints for Automatic Targeting of the Subthalamic Nucleus. <i>Stereotactic and Functional Neurosurgery</i> , 2012, 90, 325-334.	1.5	22
67	Reduced risk trajectory planning in image-guided keyhole neurosurgery. <i>Medical Physics</i> , 2012, 39, 2885-2895.	3.0	46
68	POINT SET DISTANCE AND ORTHOGONAL RANGE PROBLEMS WITH DEPENDENT GEOMETRIC UNCERTAINTIES. <i>International Journal of Computational Geometry and Applications</i> , 2012, 22, 517-541.	0.5	4
69	Interactive segmentation of plexiform neurofibroma tissue: method and preliminary performance evaluation. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 877-884.	2.8	6
70	Carotid vasculature modeling from patient CT angiography studies for interventional procedures simulation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2012, 7, 799-812.	2.8	18
71	Automatic segmentation, internal classification, and follow-up of optic pathway gliomas in MRI. <i>Medical Image Analysis</i> , 2012, 16, 177-188.	11.6	64
72	Fiducial Optimization for Minimal Target Registration Error in Image-Guided Neurosurgery. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 725-737.	8.9	55

#	ARTICLE	IF	CITATIONS
73	Anatomical Structures Segmentation by Spherical 3D Ray Casting and Gradient Domain Editing. Lecture Notes in Computer Science, 2012, 15, 363-370.	1.3	5
74	Prediction of Brain MR Scans in Longitudinal Tumor Follow-Up Studies. Lecture Notes in Computer Science, 2012, 15, 179-187.	1.3	8
75	Computer-assisted orthopaedic fracture reduction. Current Orthopaedic Practice, 2011, 22, 109-115.	0.2	2
76	Target and Trajectory Clinical Application Accuracy in Neuronavigation. Operative Neurosurgery, 2011, 68, 95-102.	0.8	18
77	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
78	MRI internal segmentation of optic pathway gliomas: clinical implementation of a novel algorithm. Child's Nervous System, 2011, 27, 1265-1272.	1.1	20
79	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
80	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
81	Geometrical analysis of registration errors in point-based rigid-body registration using invariants. Medical Image Analysis, 2011, 15, 85-95.	11.6	27
82	A curvelet-based patient-specific prior for accurate multi-modal brain image rigid registration. Medical Image Analysis, 2011, 15, 125-132.	11.6	20
83	Evaluation framework for carotid bifurcation lumen segmentation and stenosis grading. Medical Image Analysis, 2011, 15, 477-488.	11.6	70
84	Longitudinal assessment of brain tumors using a repeatable prior-based segmentation. , 2011, , .		1
85	Plexiform neurofibroma tissue classification. Proceedings of SPIE, 2011, , .	0.8	0
86	Spectral-based 2D/3D X-ray to CT image rigid registration. , 2011, , .		4
87	Trajectory planning with Augmented Reality for improved risk assessment in image-guided keyhole neurosurgery. , 2011, , .		23
88	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
89	Multi-class SVM model for fMRI-based classification and grading of liver fibrosis. , 2010, , .		2
90	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

#	ARTICLE	IF	CITATIONS
91	Efficient representation and computation of geometric uncertainty: The linear parametric model. Precision Engineering, 2010, 34, 2-6.	3.4	21
92	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
93	AN iterative model-constrained graph-cut algorithm for Abdominal Aortic Aneurysm thrombus segmentation. , 2010, , .		22
94	Affinity-based constraint optimization for nearly-automatic vessel segmentation. Proceedings of SPIE, 2010, , .	0.8	0
95	Trajectory planning method for reduced patient risk in image-guided neurosurgery: concept and preliminary results. Proceedings of SPIE, 2010, , .	0.8	6
96	Automatic segmentation of Optic Pathway Gliomas in MRI. , 2010, , .		4
97	Non-parametric Iterative Model Constraint Graph min-cut for Automatic Kidney Segmentation. Lecture Notes in Computer Science, 2010, 13, 73-80.	1.3	28
98	Automatic Segmentation and Components Classification of Optic Pathway Gliomas in MRI. Lecture Notes in Computer Science, 2010, 13, 103-110.	1.3	13
99	A Method for Planning Safe Trajectories in Image-Guided Keyhole Neurosurgery. Lecture Notes in Computer Science, 2010, 13, 457-464.	1.3	27
100	Carotid Lumen Segmentation and Stenosis Grading Challenge. , 2010, , .		6
101	Implementation of graph-based interactive 3D vessel segmentation filter. The Insight Journal, 2010, , .	0.2	0
102	Optimal landmarks selection and fiducial marker placement for minimal target registration error in image-guided neurosurgery. Proceedings of SPIE, 2009, , .	0.8	8
103	Worst-case analysis of target localization errors in fiducial-based rigid body registration. , 2009, , .		5
104	Surface-based facial scan registration in neuronavigation procedures: a clinical study. Journal of Neurosurgery, 2009, 111, 1201-1206.	1.6	66
105	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
106	Vessels-Cut: A Graph Based Approach to Patient-Specific Carotid Arteries Modeling. Lecture Notes in Computer Science, 2009, , 1-12.	1.3	15
107	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
108	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

#	ARTICLE	IF	CITATIONS
109	Liver metastasis early detection using fMRI based statistical model. , 2008, , .		5
110	A Bayesian Approach for Liver Analysis: Algorithm and Validation Study. Lecture Notes in Computer Science, 2008, 11, 85-92.	1.3	15
111	Classification of Suspected Liver Metastases Using fMRI Images: A Machine Learning Approach. Lecture Notes in Computer Science, 2008, 11, 93-100.	1.3	4
112	An iterative Bayesian approach for liver analysis: tumors validation study. , 2008, , .		3
113	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
114	Robotic assisted spinal surgery—from concept to clinical practice. Computer Aided Surgery, 2007, 12, 105-115.	1.8	44
115	Principles of Computer-Aided Surgery in Trauma Surgery. , 2007, , 476-485.		3
116	Robotic assisted spinal surgery-from concept to clinical practice. Computer Aided Surgery, 2007, 12, 105-115.	1.8	43
117	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
118	Relative Positioning of Planar Parts in Toleranced Assemblies. , 2007, , 65-74.		1
119	Image-guided system with miniature robot for precise positioning and targeting in keyhole neurosurgery. Computer Aided Surgery, 2006, 11, 181-193.	1.8	42
120	Image-guided system with miniature robot for precise positioning and targeting in keyhole neurosurgery. Computer Aided Surgery, 2006, 11, 181-193.	1.8	9
121	Tolerance envelopes of planar mechanical parts with parametric tolerances. CAD Computer Aided Design, 2005, 37, 531-544.	2.7	27
122	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
123	Relative Positioning of Planar Parts in Toleranced Assemblies. Computer-Aided Design and Applications, 2005, 2, 675-684.	0.6	4
124	Precise robot-assisted guide positioning for distal locking of intramedullary nails. IEEE Transactions on Medical Imaging, 2005, 24, 624-635.	8.9	62
125	Miniature robot-based precise targeting system for keyhole neurosurgery: Concept and preliminary results. International Congress Series, 2005, 1281, 618-623.	0.2	6
126	Long Bone Panoramas From Fluoroscopic X-Ray Images. IEEE Transactions on Medical Imaging, 2004, 23, 26-35.	8.9	37

#	ARTICLE	IF	CITATIONS
127	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
128	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
129	Kinematic analysis of spatial fixed-axis higher pairs using configuration spaces. CAD Computer Aided Design, 2003, 35, 279-291.	2.7	10
130	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
131	A robot-assisted system for long bone intramedullary distal locking: concept and preliminary results. International Congress Series, 2003, 1256, 485-491.	0.2	11
132	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
133	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
134	Effective Intensity-Based 2D/3D Rigid Registration between Fluoroscopic X-Ray and CT. Lecture Notes in Computer Science, 2003, , 351-358.	1.3	23
135	Computer-Assisted Image-Guided Intramedullary Nailing of Femoral Shaft Fractures. Techniques in Orthopaedics, 2003, 18, 191-200.	0.2	14
136	Towards robust kinematic synthesis of mechanical systems. , 2003, , 135-144.		1
137	Comparative<i>In Vitro</i> Study of Contact-and Image-Based Rigid Registration for Computer-Aided Surgery. Computer Aided Surgery, 2002, 7, 223-236.	1.8	0
138	Robust Automatic C-Arm Calibration for Fluoroscopy-Based Navigation: A Practical Approach. Lecture Notes in Computer Science, 2002, , 60-68.	1.3	32
139	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
140	Segmentation of microcalcification in X-ray mammograms using entropy thresholding. , 2002, , 671-676.		25
141	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
142	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
143	Computer-based periaxial rotation measurement for aligning fractured femur fragments. International Congress Series, 2001, 1230, 307-313.	0.2	3
144	Long bone panoramas from fluoroscopic X-ray images. International Congress Series, 2001, 1230, 520-525.	0.2	0

#	ARTICLE	IF	CITATIONS
145	Computers in imaging and guided surgery. Computing in Science and Engineering, 2001, 3, 65-72.	1.2	17
146	Kinematic Synthesis. , 2001, , 321-361.		8
147	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
148	Computer-integrated revision total hip replacement surgery: concept and preliminary results. Medical Image Analysis, 1999, 3, 301-319.	11.6	107
149	Understanding mechanical motion: From images to behaviors. Artificial Intelligence, 1999, 112, 147-179.	5.8	7
150	Solving Systems of Difference Constraints Incrementally. Algorithmica, 1999, 23, 261-275.	1.3	29
151	Visualizing 3D configuration spaces for mechanical design. IEEE Computer Graphics and Applications, 1999, 19, 50-53.	1.2	2
152	Computer-aided mechanical design using configuration spaces. Computing in Science and Engineering, 1999, 1, 14-21.	1.2	12
153	Motion planning in crowded planar environments. Robotica, 1999, 17, 365-371.	1.9	2
154	Computer-Assisted Kinematic Tolerance Analysis of a Gear Selector Mechanism With the Configuration Space Method. , 1999, , .		7
155	The configuration space method for kinematic tolerance analysis. , 1999, , 261-270.		1
156	Parametric kinematic tolerance analysis of general planar systems. CAD Computer Aided Design, 1998, 30, 707-714.	2.7	48
157	Mesh simplification with smooth surface reconstruction. CAD Computer Aided Design, 1998, 30, 875-882.	2.7	21
158	FRACAS: a System for Computer-Aided Image-Guided Long Bone Fracture Surgery. Computer Aided Surgery, 1998, 3, 271-288.	1.8	99
159	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
160	Fluoroscopic image processing for computer-aided orthopaedic surgery. Lecture Notes in Computer Science, 1998, , 325-334.	1.3	11
161	FRACAS: A system for computer-aided image-guided long bone fracture surgery. Computer Aided Surgery, 1998, 3, 271-288.	1.8	59
162	FRACAS: A system for computer-aided image-guided long bone fracture surgery. Computer Aided Surgery, 1998, 3, 271-288.	1.8	54

#	ARTICLE	IF	CITATIONS
163	Computer-aided image-guided bone fracture surgery: Modeling, visualization, and preoperative planning. Lecture Notes in Computer Science, 1998, , 29-38.	1.3	10
164	Parametric Kinematic Tolerance Analysis of Planar Mechanisms. , 1998, , 308-324.		0
165	Kinematic tolerance analysis. CAD Computer Aided Design, 1997, 29, 147-157.	2.7	39
166	Parametric kinematic tolerance analysis of planar mechanisms. CAD Computer Aided Design, 1997, 29, 333-342.	2.7	35
167	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
168	Efficient compositional modeling for generating causal explanations. Artificial Intelligence, 1996, 83, 193-227.	5.8	17
169	A representation language for mechanical behavior. Advanced Engineering Informatics, 1996, 10, 109-116.	0.5	22
170	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
171	Computational Kinematic Analysis of Higher Pairs with Multiple Contacts. Journal of Mechanical Design, Transactions of the ASME, 1995, 117, 269-277.	2.9	38
172	Kinematic tolerance analysis. , 1995, , .		5
173	Automated modeling and kinematic simulation of mechanisms. CAD Computer Aided Design, 1993, 25, 106-118.	2.7	50
174	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
175	Computational kinematics. Artificial Intelligence, 1991, 51, 381-416.	5.8	99
176	Practical Tools for Reasoning About Linear Constraints. Fundamenta Informaticae, 1991, 15, 357-379.	0.4	7
177	Mechanism comparison and classification for design. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 1990, 1, 149-166.	2.1	20
178	Reasoning about the kinematics of mechanical devices. Advanced Engineering Informatics, 1989, 4, 22-31.	0.5	10
179	Configuration space computation for mechanism design. , 0, , .		10
180	Dynamical simulation of assemblies of planar, 1 DOF parts with changing contacts using configuration spaces. , 0, , .		1

#	ARTICLE	IF	CITATIONS
181	Configuration space visualization for mechanical design. , 0, , .		1
182	Understanding mechanisms: from images to behaviours. , 0, , .		1
183	Efficiently testing for unboundedness and m-handed assembly. , 0, , .		2
184	Contact analysis of spatial fixed-axes pairs using configuration spaces. , 0, , .		2
185	Geometric computation for assembly planning with planar toleranced parts. , 0, , .		1
186	FRACAS: a System for Computer-Aided Image-Guided Long Bone Fracture Surgery. , 0, , .		1