Pierre Jannin

List of Publications by Year
in descending order

166 papers	4,542 citations
109321 35 h-index	123424 61 g-index
176 all docs	176 docs citations
176 times ranked	4618 citing authors

#	ARTICLE	IF	CITATIONS
1	Surgical data science for next-generation interventions. Nature Biomedical Engineering, 2017, 1, 691-696.	22.5	283
2	Why rankings of biomedical image analysis competitions should be interpreted with care. Nature Communications, 2018, 9, 5217.	12.8	198
3	Vision-based and marker-less surgical tool detection and tracking: a review of the literature. Medical Image Analysis, 2017, 35, 633-654.	11.6	190
4	Surgical process modelling: a review. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 495-511.	2.8	171
5	Virtual Reality Simulation in Nontechnical Skills Training for Healthcare Professionals. Simulation in Healthcare, 2019, 14, 188-194.	1.2	155
6	Validation of medical image processing in image-guided therapy. IEEE Transactions on Medical Imaging, 2002, 21, 1445-1449.	8.9	153
7	The state of the art of visualization in mixed reality image guided surgery. Computerized Medical Imaging and Graphics, 2013, 37, 98-112.	5.8	122
8	Abnormal functional lateralization and activity of language brain areas in typical specific language impairment (developmental dysphasia). Brain, 2011, 134, 3044-3058.	7.6	111
9	Surgical data science â€" from concepts toward clinical translation. Medical Image Analysis, 2022, 76, 102306.	11.6	107
10	Validation of Knowledge Acquisition for Surgical Process Models. Journal of the American Medical Informatics Association: JAMIA, 2009, 16, 72-80.	4.4	100
11	Detecting Surgical Tools by Modelling Local Appearance and Global Shape. IEEE Transactions on Medical Imaging, 2015, 34, 2603-2617.	8.9	96
12	A Framework for the Recognition of High-Level Surgical Tasks From Video Images for Cataract Surgeries. IEEE Transactions on Biomedical Engineering, 2012, 59, 966-976.	4.2	95
13	Comparative Validation of Single-Shot Optical Techniques for Laparoscopic 3-D Surface Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 1913-1930.	8.9	88
14	Automatic data-driven real-time segmentation and recognition of surgical workflow. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1081-1089.	2.8	82
15	Unsupervised Trajectory Segmentation for Surgical Gesture Recognition in Robotic Training. IEEE Transactions on Biomedical Engineering, 2016, 63, 1280-1291.	4.2	81
16	Surgical models for computer-assisted neurosurgery. NeuroImage, 2007, 37, 783-791.	4.2	78
17	Classification of surgical processes using dynamic time warping. Journal of Biomedical Informatics, 2012, 45, 255-264.	4.3	77
18	Learning procedural skills with a virtual reality simulator: An acceptability study. Nurse Education Today, 2019, 79, 153-160.	3.3	73

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19	Integration of sulcal and functional information for multimodal neuronavigation. Journal of Neurosurgery, 2002, 96, 713-723.	1.6	72
20	Chronic and treatment-resistant depression: A study using arterial spin labeling perfusion MRI at 3Tesla. Psychiatry Research - Neuroimaging, 2010, 182, 111-116.	1.8	72
21	Automatic computation of electrode trajectories for Deep Brain Stimulation: a hybrid symbolic and numerical approach. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 517-532.	2.8	71
22	DVV: A Taxonomy for Mixed Reality Visualization in Image Guided Surgery. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 332-352.	4.4	67
23	Analysis of surgical intervention populations using generic surgical process models. International Journal of Computer Assisted Radiology and Surgery, 2011, 6, 59-71.	2.8	65
24	BIAS: Transparent reporting of biomedical image analysis challenges. Medical Image Analysis, 2020, 66, 101796.	11.6	59
25	Automated segmentation of basal ganglia and deep brain structures in MRI of Parkinson's disease. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 99-110.	2.8	57
26	Augmented virtuality based on stereoscopic reconstruction in multimodal image-guided neurosurgery: methods and performance evaluation. IEEE Transactions on Medical Imaging, 2005, 24, 1500-1511.	8.9	56
27	LapOntoSPM: an ontology for laparoscopic surgeries and its application to surgical phase recognition. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1427-1434.	2.8	54
28	Toward a standard ontology of surgical process models. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1397-1408.	2.8	54
29	Guest Editorial Validation in Medical Image Processing. IEEE Transactions on Medical Imaging, 2006, 25, 1405-1409.	8.9	51
30	Automatic knowledge-based recognition of low-level tasks in ophthalmological procedures. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 39-49.	2.8	49
31	Model for defining and reporting reference-based validation protocols in medical image processing. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 63-73.	2.8	48
32	On mixed reality environments for minimally invasive therapy guidance: Systems architecture, successes and challenges in their implementation from laboratory to clinic. Computerized Medical Imaging and Graphics, 2013, 37, 83-97.	5.8	45
33	Surgical motion analysis using discriminative interpretable patterns. Artificial Intelligence in Medicine, 2018, 91, 3-11.	6.5	44
34	PyDBS: an automated image processing workflow for deep brain stimulation surgery. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 117-128.	2.8	42
35	Investigation of morphometric variability of subthalamic nucleus, red nucleus, and substantia nigra in advanced Parkinson's disease patients using automatic segmentation and PCA–based analysis. Human Brain Mapping, 2014, 35, 4330-4344.	3.6	41
36	A surface registration method for quantification of intraoperative brain deformations in image-guided neurosurgery. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 976-983.	3.2	36

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37	Construction and assessment of a 3-T MRI brain template. NeuroImage, 2010, 49, 345-354.	4.2	36
38	Model of Surgical Procedures for Multimodal Image-Guided Neurosurgery. Computer Aided Surgery, 2003, 8, 98-106.	1.8	33
39	Decision Making During Preoperative Surgical Planning. Human Factors, 2009, 51, 67-77.	3.5	32
40	Assisted phase and step annotation for surgical videos. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 673-680.	2.8	31
41	Automatic phase prediction from low-level surgical activities. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 833-841.	2.8	28
42	A Delphi consensus statement for digital surgery. Npj Digital Medicine, 2022, 5, .	10.9	28
43	A methodology for generating normal and pathological brain perfusion SPECT images for evaluation of MRI/SPECT fusion methods: application in epilepsy. Physics in Medicine and Biology, 2003, 48, 4023-4043.	3.0	27
44	Similarity metrics for surgical process models. Artificial Intelligence in Medicine, 2012, 54, 15-27.	6.5	27
45	Multi-site study of surgical practice in neurosurgery based on surgical process models. Journal of Biomedical Informatics, 2013, 46, 822-829.	4.3	27
46	Recording of Surgical Processes: A Study Comparing Senior and Junior Neurosurgeons During Lumbar Disc Herniation Surgery. Operative Neurosurgery, 2010, 67, ons325-ons332.	0.8	26
47	Relationships Between Expertise, Crew Familiarity and Surgical Workflow Disruptions: An Observational Study. World Journal of Surgery, 2019, 43, 431-438.	1.6	26
48	Surgical Phases Detection from Microscope Videos by Combining SVM and HMM. Lecture Notes in Computer Science, 2011, , 54-62.	1.3	25
49	Analysis of electrode deformations in deep brain stimulation surgery. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 107-117.	2.8	24
50	Automatic matching of surgeries to predict surgeons' next actions. Artificial Intelligence in Medicine, 2017, 81, 3-11.	6.5	24
51	Statistical study of parameters for deep brain stimulation automatic preoperative planning of electrodes trajectories. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1973-1983.	2.8	23
52	Procedural surgical skill assessment in laparoscopic training environments. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 543-552.	2.8	23
53	Ethical implications of AI in robotic surgical training: A Delphi consensus statement. European Urology Focus, 2022, 8, 613-622.	3.1	23
54	Automatic Phases Recognition in Pituitary Surgeries by Microscope Images Classification. Lecture Notes in Computer Science, 2010, , 34-44.	1.3	23

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55	Anatomo-clinical atlases correlate clinical data and electrode contact coordinates: Application to subthalamic deep brain stimulation. Journal of Neuroscience Methods, 2013, 212, 297-307.	2.5	22
56	An Application-Dependent Framework for the Recognition of High-Level Surgical Tasks in the OR. Lecture Notes in Computer Science, 2011, 14, 331-338.	1.3	22
57	FMRI language mapping in children: A panel of language tasks using visual and auditory stimulation without reading or metalinguistic requirements. NeuroImage, 2010, 51, 897-909.	4.2	21
58	Reduced Verbal Fluency following Subthalamic Deep Brain Stimulation: A Frontal-Related Cognitive Deficit?. PLoS ONE, 2015, 10, e0140083.	2.5	20
59	Assessment of surgical skills by using surgical navigation in robot-assisted partial nephrectomy. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1449-1459.	2.8	20
60	Evaluation of contactless human–machine interface for robotic surgical training. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 13-24.	2.8	19
61	Detection of inter-hemispheric asymmetries of brain perfusion in SPECT. Physics in Medicine and Biology, 2003, 48, 1505-1517.	3.0	18
62	In vivo Exploration of the Connectivity between the Subthalamic Nucleus and the Globus Pallidus in the Human Brain Using Multi-Fiber Tractography. Frontiers in Neuroanatomy, 2016, 10, 119.	1.7	16
63	Training situational awareness for scrub nurses: Error recognition in a virtual operating room. Nurse Education in Practice, 2021, 53, 103056.	2.6	16
64	Does subthalamic nucleus stimulation affect the frontal limbic areas? A single-photon emission computed tomography study using a manual anatomical segmentation method. Surgical and Radiologic Anatomy, 2005, 27, 389-394.	1.2	15
65	Automatic preoperative planning of DBS electrode placement using anatomo-clinical atlases and volume of tissue activated. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1117-1128.	2.8	15
66	Automatic Computation of Electrodes Trajectory for Deep Brain Stimulation. Lecture Notes in Computer Science, 2010, , 149-158.	1.3	15
67	Assessing neurosurgical non–technical skills: an exploratory study of a new behavioural marker system. Journal of Evaluation in Clinical Practice, 2014, 20, 582-588.	1.8	14
68	Surgical skills: Can learning curves be computed from recordings of surgical activities?. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 629-636.	2.8	14
69	Offline identification of surgical deviations in laparoscopic rectopexy. Artificial Intelligence in Medicine, 2020, 104, 101837.	6.5	14
70	A Methodology to Validate MRI/SPECT Registration Methods Using Realistic Simulated SPECT Data. Lecture Notes in Computer Science, 2001, , 275-282.	1.3	14
71	MIcro-surgical anastomose workflow recognition challenge report. Computer Methods and Programs in Biomedicine, 2021, 212, 106452.	4.7	14
72	Real-time identification of blood regions for hemostasis support in laparoscopic surgery. Signal, Image and Video Processing, 2019, 13, 405-412.	2.7	13

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73	Hybrid simulation for obstetrics training: A systematic review. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2020, 246, 23-28.	1.1	13
74	Weight Gain following Pallidal Deep Brain Stimulation: A PET Study. PLoS ONE, 2016, 11, e0153438.	2.5	13
75	Surgical tools recognition and pupil segmentation for cataract surgical process modeling. Studies in Health Technology and Informatics, 2012, 173, 78-84.	0.3	13
76	Discovering Discriminative and Interpretable Patterns for Surgical Motion Analysis. Lecture Notes in Computer Science, 2017, , 136-145.	1.3	12
77	Acquisition models in intraoperative positron surface imaging. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 691-703.	2.8	12
78	Assessment of Image-Guided Interventions. , 2008, , 531-549.		12
79	A data fusion environment for multimodal and multi-informational neuronavigation. Computer Aided Surgery, 2000, 5, 1-10.	1.8	12
80	Role of the mode of sensory stimulation in presurgical brain mapping in which functional magnetic resonance imaging is used. Journal of Neurosurgery, 2000, 93, 427-431.	1.6	11
81	Distinguishing surgical behavior by sequential pattern discovery. Journal of Biomedical Informatics, 2017, 67, 34-41.	4.3	11
82	Data imputation and compression for Parkinson's disease clinical questionnaires. Artificial Intelligence in Medicine, 2021, 114, 102051.	6.5	11
83	Machine learning in deep brain stimulation: A systematic review. Artificial Intelligence in Medicine, 2021, 122, 102198.	6.5	11
84	From Anatomic Standardization Analysis of Perfusion SPECT Data to Perfusion Pattern Modeling. Academic Radiology, 2005, 12, 554-565.	2.5	10
85	Preâ€frontalâ€insularâ€cerebellar modifications correlate with disgust feeling blunting after subthalamic stimulation: A positron emission tomography study in <scp>P</scp>arkinson's disease. Journal of Neuropsychology, 2017, 11, 378-395.	1.4	10
86	How to Exploit Weaknesses in Biomedical Challenge Design and Organization. Lecture Notes in Computer Science, 2018, , 388-395.	1.3	10
87	Automatic annotation of surgical activities using virtual reality environments. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1663-1671.	2.8	10
88	Pareto Front vs. Weighted Sum for Automatic Trajectory Planning of Deep Brain Stimulation. Lecture Notes in Computer Science, 2016, , 534-541.	1.3	10
89	Non-linear temporal scaling of surgical processes. Artificial Intelligence in Medicine, 2014, 62, 143-152.	6.5	9
90	Ontology for assessment studies of humanâ€"computer-interaction in surgery. Artificial Intelligence in Medicine, 2015, 63, 73-84.	6.5	9

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91	Image-guided preoperative prediction of pyramidal tract side effect in deep brain stimulation: proof of concept and application to the pyramidal tract side effect induced by pallidal stimulation. Journal of Medical Imaging, 2016, 3, 025001.	1.5	9
92	Functional atlases for analysis of motor and neuropsychological outcomes after medial globus pallidus and subthalamic stimulation. PLoS ONE, 2018, 13, e0200262.	2.5	9
93	Nontechnical Skills in Neurosurgery: A Systematic Review of the Literature. World Neurosurgery, 2019, 130, e726-e736.	1.3	9
94	Subthalamic nucleus local field potentials recordings reveal subtle effects of promised reward during conflict resolution in Parkinson's disease. NeuroImage, 2019, 197, 232-242.	4.2	9
95	Real-time surgical needle detection using region-based convolutional neural networks. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 41-47.	2.8	9
96	Modeling Surgical Procedures for Multimodal Image-Guided Neurosurgery. Lecture Notes in Computer Science, 2001, , 565-572.	1.3	9
97	DVV: Towards a Taxonomy for Mixed Reality Visualization in Image Guided Surgery. Lecture Notes in Computer Science, 2010, , 334-343.	1.3	9
98	Finding discriminative and interpretable patterns in sequences of surgical activities. Artificial Intelligence in Medicine, 2017, 82, 11-19.	6.5	9
99	Review of automated performance metrics to assess surgical technical skills in robot-assisted laparoscopy. Surgical Endoscopy and Other Interventional Techniques, 2022, 36, 853-870.	2.4	9
100	Magnetoencephalographic studies of two cases of diffuse subcortical laminar heterotopia or so-called double cortex. NeuroImage, 2003, 19, 1251-1259.	4.2	8
101	Proposing a manuscript peer-review checklist. NeuroImage, 2008, 39, 1783-1787.	4.2	8
102	Influence of subthalamic deep-brain stimulation on cognitive action control in incentive context. Neuropsychologia, 2016, 91, 519-530.	1.6	8
103	Postural instability and gait disorders after subthalamic nucleus deep brain stimulation in Parkinson's disease: a PET study. Journal of Neurology, 2019, 266, 2764-2771.	3.6	8
104	Predicting the quality of surgical exposure using spatial and procedural features from laparoscopic videos. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 59-67.	2.8	8
105	A cognitive engineering framework for the specification of information requirements in medical imaging: application in image-guided neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2013, 8, 291-300.	2.8	7
106	Improvement of Pyramidal Tract Side Effect Prediction Using a Data-Driven Method in Subthalamic Stimulation. IEEE Transactions on Biomedical Engineering, 2017, 64, 2134-2141.	4.2	7
107	Sequential surgical signatures in micro-suturing task. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1419-1428.	2.8	7
108	Knowledge transfer for surgical activity prediction. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1409-1417.	2.8	7

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109	Comparative Assessment of a Novel Optical Human-Machine Interface for Laparoscopic Telesurgery. Lecture Notes in Computer Science, 2014, , 21-30.	1.3	7
110	Validation in Medical Image Processing: Methodological Issues for Proper Quantification of Uncertainties. Current Medical Imaging, 2012, 8, 322-330.	0.8	6
111	Development of workflow task analysis during cerebral diagnostic angiographies: Time-based comparison of junior and senior tasks. Journal of Neuroradiology, 2013, 40, 342-347.	1.1	6
112	Optimal Sub-Sequence Matching for the Automatic Prediction of Surgical Tasks. Lecture Notes in Computer Science, 2015, , 123-132.	1.3	6
113	Data-Driven Prediction of the Therapeutic Window during Subthalamic Deep Brain Stimulation Surgery. Stereotactic and Functional Neurosurgery, 2018, 96, 142-150.	1.5	6
114	Frontotemporal dementia subtypes based on behavioral inhibition deficits. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12178.	2.4	6
115	Extending convolutional neural networks for localizing the subthalamic nucleus from micro-electrode recordings in Parkinsonâ€™s disease. Biomedical Signal Processing and Control, 2021, 67, 102529.	5.7	6
116	PassFlow: a multimodal workflow for predicting deep brain stimulation outcomes. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1361-1370.	2.8	6
117	<title>Visual matching between real and virtual images in image-guided neurosurgery</title>. , 1997, 3031, 518.		5
118	Surface reconstruction of the surgical field from stereoscopic microscope views in neurosurgery. International Congress Series, 2001, 1230, 268-274.	0.2	5
119	Fusion de donnÃ©es en imagerie mÃ©dicale: revue mÃ©thodologique basÃ©e sur le contexte clinique. IRBM News, 2001, 22, 196-215.	0.1	5
120	<title>Toward models of surgical procedures: analyzing a database of neurosurgical cases</title>. , 2005, , .		5
121	IMAGE GUIDANCE IN NEUROSURGICAL PROCEDURES, THE "VISAGES" POINT OF VIEW. , 2007, , .		5
122	Preoperative brain metabolism and quality of life after subthalamic nucleus stimulation in Parkinsonâ€™s disease. Journal of Neurology, 2015, 262, 881-889.	3.6	5
123	Striatal shape alteration as a staging biomarker for Parkinsonâ€™s Disease. NeuroImage: Clinical, 2020, 27, 102272.	2.7	5
124	Evaluation of methods to detect interhemispheric asymmetry on cerebral perfusion SPECT: application to epilepsy. Journal of Nuclear Medicine, 2005, 46, 707-13.	5.0	5
125	Post-operative assessment in Deep Brain Stimulation based on multimodal images: registration workflow and validation. , 2009, , .		4
126	Work domain constraints for modelling surgical performance. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1589-1597.	2.8	4

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127	Metrics used to evaluate obstetric ultrasound skills on simulators: A systematic review. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2021, 258, 16-22.	1.1	4
128	Medical Applications of NDT Data Fusion. , 2001, , 227-267.		4
129	Localisation of the subthalamic nucleus in MRI via convolutional neural networks for deep brain stimulation planning. , 2020, , .		4
130	Self-guided training for deep brain stimulation planning using objective assessment. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1129-1139.	2.8	3
131	â€œDoctor, pleaseâ€‹ Educating Nurses to Speak Up With Interactive Digital Simulation Tablets. Clinical Simulation in Nursing, 2021, 54, 97-104.	3.0	3
132	Explaining a model predicting quality of surgical practice: a first presentation to and review by clinical experts. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 2009-2019.	2.8	3
133	Evaluation of Registration of Ictal SPECT/MRI Data Using Statistical Similarity Methods. Lecture Notes in Computer Science, 2004, , 687-695.	1.3	3
134	Intra-Operative Registration for Stereotactic Procedures Driven by a Combined Biomechanical Brain and CSF Model. Lecture Notes in Computer Science, 2014, , 76-85.	1.3	3
135	Bias in machine learning for computer-assisted surgery and medical image processing. Computer Assisted Surgery, 2022, 27, 1-3.	1.3	3
136	<scp>Voxelâ€based</scp> diktiometry: Combining convolutional neural networks with voxelâ€based analysis and its application in diffusion tensor imaging for Parkinson's disease. Human Brain Mapping, 2022, 43, 4835-4851.	3.6	3
137	From Anatomic Standardization Analysis of Perfusion SPECT Data to Perfusion Pattern Modelling. Lecture Notes in Computer Science, 2003, , 328-335.	1.3	2
138	Knowledge modeling in image-guided neurosurgery: application in understanding intraoperative brain shift. , 2006, , .		2
139	Effects of Low-Dose Protocols in Endovascular Treatment of Intracranial Aneurysms: Development of Workflow Task Analysis During Cerebral Endovascular Procedures. American Journal of Roentgenology, 2013, 201, W322-W325.	2.2	2
140	SepaConvNet for Localizing the Subthalamic Nucleus Using One Second Micro-electrode Recordings. , 2020, 2020, 888-893.		2
141	Segmentation of the subthalamic nucleus in MRI via Convolutional Neural Networks for deep brain stimulation planning. , 2021, , .		2
142	Automatic cortical target point localisation in MRI for transcranial magnetic stimulation via a multi-resolution convolutional neural network. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1077-1087.	2.8	2
143	Combining simple interactivity and machine learning: a separable deep learning approach to subthalamic nucleus localization and segmentation in MRI for deep brain stimulation surgical planning. Journal of Medical Imaging, 2022, 9, .	1.5	2
144	Design of a neurosurgical procedure model for multimodal image-guided surgery. International Congress Series, 2001, 1230, 102-106.	0.2	1

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145	Preoperative brain shift: study of three surgical cases. , 2008, , .		1
146	Analysis of electrodes' placement and deformation in deep brain stimulation from medical images. Proceedings of SPIE, 2012, , .	0.8	1
147	Partition-based acquisition model for speed up navigated beta-probe surface imaging. Proceedings of SPIE, 2016, , .	0.8	1
148	Adapting the listening time for micro-electrode recordings in deep brain stimulation interventions. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1371-1379.	2.8	1
149	Impacts de la chirurgie assistÃ©e par robot sur le travail dâ€™Ã©quipe au bloc opÃ©ratoireÂ: analyse systÃ©matique de la littÃ©rature. Travail Humain, 2021, Vol. 84, 167-195.	0.5	1
150	Performance Evaluation of a Stereoscopic Based 3D Surface Localiser for Image-Guided Neurosurgery. Lecture Notes in Computer Science, 2004, , 510-517.	1.3	1
151	Correlating Clinical Scores with Anatomical Electrodes Locations for Assessing Deep Brain Stimulation. Lecture Notes in Computer Science, 2011, , 113-121.	1.3	1
152	Toward a Neural-Symbolic Framework for Automated Workflow Analysis in Surgery. IFMBE Proceedings, 2020, , 1551-1558.	0.3	1
153	Impact of Physician Expertise on Probe Trajectory During Obstetric Ultrasound: A Quantitative Approach for Skill Assessment. Simulation in Healthcare, 2021, 16, 67-72.	1.2	1
154	<title>Design of user interface in medical imaging: lessons of 3-D application definition</title>. , 1992, , .		0
155	<title>Three-dimensional approach for the simulation of neurosurgical stereotactic act</title>. , 1994, 2164, 155.		0
156	Detection of Inter-hemispheric Asymmetries of Brain Perfusion in SPECT. Lecture Notes in Computer Science, 2002, , 500-507.	1.3	0
157	Implementation of atlas-matching capabilities using â€œweb servicesâ€•technology: Lessons learned from the development of a demonstrator. International Congress Series, 2005, 1281, 266-271.	0.2	0
158	Systematic user-based assessment of â€œNavigated Control Spineâ€•/ Systematische, nutzerzentrierte Evaluation von â€žNavigated Control Spineâ€•. Biomedizinische Technik, 2010, 55, 351-359.	0.8	0
159	Information processing in computer-assisted interventions: 4th international conference, 2013. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 755-757.	2.8	0
160	Preface. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 677-680.	2.8	0
161	Image-guided preoperative prediction of pyramidal tract side effect in deep brain stimulation. , 2016, , .		0
162	Real-time phase recognition in novel needle-based intervention: a multi-operator feasibility study. Proceedings of SPIE, 2017, , .	0.8	0

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163	Guest Editorial: Papers from the 12th Workshop on Augmented Environments for Computer–Assisted Interventions. Healthcare Technology Letters, 2018, 5, 136-136.	3.3	0
164	Guest editorial for the IJCARS special issue on MICCAI 2017. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1309-1310.	2.8	0
165	Special Issue on MICCAI 2017. Medical Image Analysis, 2018, 48, 259.	11.6	0
166	Biomedical Multimodality Imaging for Clinical and Research Applications: Principles, Techniques and Validation. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 249-281.	0.3	0