

Tom K Vercauteren

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

236 papers	8,796 citations	37 h-index	90 g-index
297 ext. papers	11,106 ext. citations	3.9 avg, IF	6.28 L-index

#	Paper	IF	Citations
236	Video-rate dual-modal photoacoustic and fluorescence imaging through a multimode fibre towards forward-viewing endomicroscopy.. <i>Photoacoustics</i> , 2022 , 25, 100323	9	1
235	Hybrid confocal Raman endomicroscopy for morpho-chemical tissue characterization.. <i>Biomedical Optics Express</i> , 2022 , 13, 2278-2285	3.5	0
234	Improving needle visibility in LED-based photoacoustic imaging using deep learning with semi-synthetic datasets.. <i>Photoacoustics</i> , 2022 , 26, 100351	9	0
233	Surgical biomicroscopy-guided intra-operative optical coherence tomography (iOCT) image super-resolution.. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022 , 1	3.9	1
232	Robotic Endoscope Control Via Autonomous Instrument Tracking.. <i>Frontiers in Robotics and AI</i> , 2022 , 9, 832208	2.8	2
231	Motion correction and volumetric reconstruction for fetal functional magnetic resonance imaging data.. <i>NeuroImage</i> , 2022 , 255, 119213	7.9	0
230	Artificial intelligence and medical education: A global mixed-methods study of medical studentsR perspectives.. <i>Digital Health</i> , 2022 , 8, 20552076221089099	4	2
229	Generalized Wasserstein Dice Loss, Test-Time Augmentation, and Transformers for the BraTS 2021 Challenge. <i>Lecture Notes in Computer Science</i> , 2022 , 187-196	0.9	
228	High-Throughput Molecular Imaging via Deep-Learning-Enabled Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021 , 93, 15850-15860	7.8	4
227	Super-resolution Reconstruction MRI Application in Fetal Neck Masses and Congenital High Airway Obstruction Syndrome. <i>OTO Open</i> , 2021 , 5, 2473974X211055372	2	1
226	Robust joint registration of multiple stains and MRI for multimodal 3D histology reconstruction: Application to the Allen human brain atlas. <i>Medical Image Analysis</i> , 2021 , 75, 102265	15.4	0
225	Segmentation of vestibular schwannoma from MRI, an open annotated dataset and baseline algorithm. <i>Scientific Data</i> , 2021 , 8, 286	8.2	3
224	High-speed photoacoustic-guided wavefront shaping for focusing light in scattering media. <i>Optics Letters</i> , 2021 , 46, 1165-1168	3	7
223	Focusing light through multimode fibres using a digital micromirror device: a comparison study of non-holographic approaches. <i>Optics Express</i> , 2021 , 29, 14269-14281	3.3	4
222	Optical Detection of Distal Lung Enzyme Activity in Human Inflammatory Lung Disease. <i>BME Frontiers</i> , 2021 , 2021, 1-11	4.4	3
221	Intraoperative hyperspectral label-free imaging: from system design to first-in-patient translation. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 294003	3	5
220	Integrated multi-modality image-guided navigation for neurosurgery: open-source software platform using state-of-the-art clinical hardware. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 1347-1356	3.9	1

219	Image Compositing for Segmentation of Surgical Tools Without Manual Annotations. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 1450-1460	11.7	6
218	Cortical spectral matching and shape and volume analysis of the fetal brain pre- and post-fetal surgery for spina bifida: a retrospective study. <i>Neuroradiology</i> , 2021 , 63, 1721-1734	3.2	3
217	A self-supervised learning strategy for postoperative brain cavity segmentation simulating resections. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 1653-1661	3.9	2
216	Magnetic resonance imaging measurement of placental perfusion and oxygen saturation in early-onset fetal growth restriction. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2021 , 128, 337-345	3.7	10
215	CA-Net: Comprehensive Attention Convolutional Neural Networks for Explainable Medical Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 699-711	11.7	54
214	Learning joint segmentation of tissues and brain lesions from task-specific hetero-modal domain-shifted datasets. <i>Medical Image Analysis</i> , 2021 , 67, 101862	15.4	10
213	Zero-Shot Super-Resolution With a Physically-Motivated Downsampling Kernel for Endomicroscopy. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 1863-1874	11.7	3
212	Interactive Segmentation via Deep Learning and B-Spline Explicit Active Surfaces. <i>Lecture Notes in Computer Science</i> , 2021 , 315-325	0.9	
211	Inter Extreme Points Geodesics for End-to-End Weakly Supervised Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2021 , 615-624	0.9	3
210	Label-Set Loss Functions for Partial Supervision: Application to Fetal Brain 3D MRI Parcellation. <i>Lecture Notes in Computer Science</i> , 2021 , 647-657	0.9	4
209	Imitation learning for improved 3D PET/MR attenuation correction. <i>Medical Image Analysis</i> , 2021 , 71, 102079	15.4	3
208	A Novel Intraoperative Ultrasound Probe for Transsphenoidal Surgery: First-in-human study. <i>Surgical Innovation</i> , 2021 , 15533506211031091	2	1
207	A clinically interpretable convolutional neural network for the real-time prediction of early squamous cell cancer of the esophagus: comparing diagnostic performance with a panel of expert European and Asian endoscopists. <i>Gastrointestinal Endoscopy</i> , 2021 , 94, 273-281	5.2	1
206	MIDeepSeg: Minimally interactive segmentation of unseen objects from medical images using deep learning. <i>Medical Image Analysis</i> , 2021 , 72, 102102	15.4	5
205	An unsupervised learning approach to ultrasound strain elastography with spatio-temporal consistency. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	3
204	Automatic Extraction of Hiatal Dimensions in 3-D Transperineal Pelvic Ultrasound Recordings. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 3470-3479	3.5	1
203	Intra-operative OCT (iOCT) Image Quality Enhancement: A Super-Resolution Approach Using High Quality iOCT 3D Scans. <i>Lecture Notes in Computer Science</i> , 2021 , 21-31	0.9	2
202	Distributionally Robust Segmentation of Abnormal Fetal Brain 3D MRI. <i>Lecture Notes in Computer Science</i> , 2021 , 263-273	0.9	3

201	Generalized Wasserstein Dice Score, Distributionally Robust Deep Learning, and Ranger for Brain Tumor Segmentation: BraTS 2020 Challenge. <i>Lecture Notes in Computer Science</i> , 2021 , 200-214	0.9	4
200	Automatic Tomographic Ultrasound Imaging Sequence Extraction of the Anal Sphincter. <i>Lecture Notes in Computer Science</i> , 2021 , 35-44	0.9	
199	Homography-based Visual Servoing with Remote Center of Motion for Semi-autonomous Robotic Endoscope Manipulation 2021 ,		1
198	Learning from irregularly sampled data for endomicroscopy super-resolution: a comparative study of sparse and dense approaches. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 1167-1175	3.9	5
197	FetNet: a recurrent convolutional network for occlusion identification in fetoscopic videos. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 791-801	3.9	5
196	Intrapapillary capillary loop classification in magnification endoscopy: open dataset and baseline methodology. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 651-659	3.9	10
195	Deep learning-based monocular placental pose estimation: towards collaborative robotics in fetoscopy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 1561-1571	3.9	4
194	Seeing through multimode fibers with real-valued intensity transmission matrices. <i>Optics Express</i> , 2020 , 28, 20978-20991	3.3	6
193	Multiplexed polarized hypodermic Raman needle probe for biostructural analysis of articular cartilage. <i>Optics Letters</i> , 2020 , 45, 2890-2893	3	4
192	Longitudinal Image Registration with Temporal-Order and Subject-Specificity Discrimination. <i>Lecture Notes in Computer Science</i> , 2020 , 243-252	0.9	2
191	DeepReg: a deep learning toolkit for medical image registration. <i>Journal of Open Source Software</i> , 2020 , 5, 2705	5.2	6
190	Patient-Specific Polyvinyl Alcohol Phantom Fabrication with Ultrasound and X-Ray Contrast for Brain Tumor Surgery Planning. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	2
189	Min-Cut Max-Flow for Network Abnormality Detection: Application to Preterm Birth. <i>Lecture Notes in Computer Science</i> , 2020 , 164-173	0.9	
188	Towards Automated Spine Mobility Quantification: A Locally Rigid CT to X-ray Registration Framework. <i>Lecture Notes in Computer Science</i> , 2020 , 67-77	0.9	1
187	Scribble-Based Domain Adaptation via Co-segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 479-489	4.9	9
186	An Unsupervised Approach to Ultrasound Elastography with End-to-end Strain Regularisation. <i>Lecture Notes in Computer Science</i> , 2020 , 573-582	0.9	5
185	Deep Placental Vessel Segmentation for Fetoscopic Mosaicking. <i>Lecture Notes in Computer Science</i> , 2020 , 763-773	0.9	6
184	Uncertainty-Guided Efficient Interactive Refinement of Fetal Brain Segmentation from Stacks of MRI Slices. <i>Lecture Notes in Computer Science</i> , 2020 , 279-288	0.9	7

183	Automatic C-Plane Detection in Pelvic Floor Transperineal Volumetric Ultrasound. <i>Lecture Notes in Computer Science</i> , 2020 , 136-145	0.9	2
182	A 30-Year Clinical and Magnetic Resonance Imaging Observational Study of Multiple Sclerosis and Clinically Isolated Syndromes. <i>Annals of Neurology</i> , 2020 , 87, 63-74	9.4	37
181	An automated framework for localization, segmentation and super-resolution reconstruction of fetal brain MRI. <i>NeuroImage</i> , 2020 , 206, 116324	7.9	64
180	Photoacoustic imaging of the human placental vasculature. <i>Journal of Biophotonics</i> , 2020 , 13, e2019001671	5.1	19
179	Image computing for fibre-bundle endomicroscopy: A review. <i>Medical Image Analysis</i> , 2020 , 62, 101620	15.4	17
178	Refractive Two-View Reconstruction for Underwater 3D Vision. <i>International Journal of Computer Vision</i> , 2020 , 128, 1101-1117	10.6	16
177	Improved fetal blood oxygenation and placental estimated measurements of diffusion-weighted MRI using data-driven Bayesian modeling. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 2160-2172	4.4	12
176	CAI4CAI: The Rise of Contextual Artificial Intelligence in Computer Assisted Interventions. <i>Proceedings of the IEEE</i> , 2020 , 108, 198-214	14.3	50
175	Manual segmentation versus semi-automated segmentation for quantifying vestibular schwannoma volume on MRI. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 1445-1455	3.9	7
174	Active Handheld Flexible Fetoscope Design and Control Based on a Modified Generalized Prandtl-Ishlinski Model 2020 ,		5
173	Deep learning-based fetoscopic mosaicking for field-of-view expansion. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 1807-1816	3.9	7
172	Automated postoperative muscle assessment of hip arthroplasty patients using multimodal imaging joint segmentation. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 183, 105062	6.9	3
171	Handheld Active Add-On Control Unit for a Cable-Driven Flexible Endoscope. <i>Frontiers in Robotics and AI</i> , 2019 , 6, 87	2.8	6
170	Quantifying the Intra-Operative Hemodynamic Effects of Glue Embolization in Vein of Galen Malformations 2019 , 2019, 754-758	1.5	
169	Micro-CT and histological investigation of the spatial pattern of feto-placental vascular density. <i>Placenta</i> , 2019 , 88, 36-43	3.4	17
168	Robotic Control of a Multi-Modal Rigid Endoscope Combining Optical Imaging with All-Optical Ultrasound 2019 ,		3
167	Adversarial training with cycle consistency for unsupervised super-resolution in endomicroscopy. <i>Medical Image Analysis</i> , 2019 , 53, 123-131	15.4	26
166	Tu1991 ARTIFICIAL INTELLIGENCE FOR REAL-TIME POLYP LOCALISATION IN COLONOSCOPY WITHDRAWAL VIDEOS. <i>Gastrointestinal Endoscopy</i> , 2019 , 89, AB647	5.2	4

165	Early neuropathological and neurobehavioral consequences of preterm birth in a rabbit model. <i>Scientific Reports</i> , 2019 , 9, 3506	4.9	11
164	Clinical Applications for Diffusion MRI and Tractography of Cranial Nerves Within the Posterior Fossa: A Systematic Review. <i>Frontiers in Neuroscience</i> , 2019 , 13, 23	5.1	19
163	Automatic Brain Tumor Segmentation Using Convolutional Neural Networks with Test-Time Augmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 61-72	0.9	28
162	Aleatoric uncertainty estimation with test-time augmentation for medical image segmentation with convolutional neural networks. <i>Neurocomputing</i> , 2019 , 335, 34-45	5.4	148
161	Intraoperative multispectral and hyperspectral label-free imaging: A systematic review of in vivo clinical studies. <i>Journal of Biophotonics</i> , 2019 , 12, e201800455	3.1	33
160	DeepGeoS: A Deep Interactive Geodesic Framework for Medical Image Segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 1559-1572	13.3	139
159	Automatic Brain Tumor Segmentation Based on Cascaded Convolutional Neural Networks With Uncertainty Estimation. <i>Frontiers in Computational Neuroscience</i> , 2019 , 13, 56	3.5	72
158	Super-resolution for upper abdominal MRI: Acquisition and post-processing protocol optimization using brain MRI control data and expert reader validation. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1905-1919	4.4	7
157	Pruning strategies for efficient online globally consistent mosaicking in fetoscopy. <i>Journal of Medical Imaging</i> , 2019 , 6, 035001	2.6	6
156	Reproducibility of Functional Connectivity Estimates in Motion Corrected Fetal fMRI. <i>Lecture Notes in Computer Science</i> , 2019 , 123-132	0.9	1
155	Incompressible Image Registration Using Divergence-Conforming B-Splines. <i>Lecture Notes in Computer Science</i> , 2019 , 438-446	0.9	1
154	Improved Placental Parameter Estimation Using Data-Driven Bayesian Modelling. <i>Lecture Notes in Computer Science</i> , 2019 , 609-616	0.9	
153	Soft optically-tuneable fluorescence phantoms based on gel wax and quantum dots: a tissue surrogate for fluorescence imaging validation 2019 ,		1
152	Permutohedral Attention Module for Efficient Non-local Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 393-401	0.9	4
151	Deep Sequential Mosaicking of Fetoscopic Videos. <i>Lecture Notes in Computer Science</i> , 2019 , 311-319	0.9	4
150	Automatic Segmentation of Vestibular Schwannoma from T2-Weighted MRI by Deep Spatial Attention with Hardness-Weighted Loss. <i>Lecture Notes in Computer Science</i> , 2019 , 264-272	0.9	16
149	Conditional Segmentation in Lieu of Image Registration. <i>Lecture Notes in Computer Science</i> , 2019 , 401-409	0.9	5
148	Hetero-Modal Variational Encoder-Decoder for Joint Modality Completion and Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 74-82	0.9	20

147	Improved MR to CT Synthesis for PET/MR Attenuation Correction Using Imitation Learning. <i>Lecture Notes in Computer Science</i> , 2019 , 13-21	0.9	4
146	Landmark-Based Evaluation of a Block-Matching Registration Framework on the RESECT Pre- and Intra-operative Brain Image Data Set. <i>Lecture Notes in Computer Science</i> , 2019 , 136-144	0.9	4
145	3D Convolutional Neural Network for Segmentation of the Urethra in Volumetric Ultrasound of the Pelvic Floor 2019 ,		2
144	Design and Shared Control of a Flexible Endoscope with Autonomous Distal Tip Alignment 2019 ,		3
143	Macro-Micro Multi-Arm Robot for Single-Port Access Surgery 2019 ,		3
142	Minimally invasive photoacoustic imaging: Current status and future perspectives. <i>Photoacoustics</i> , 2019 , 16, 100146	9	40
141	Reliability of MR Imaging-Based Posterior Fossa and Brain Stem Measurements in Open Spinal Dysraphism in the Era of Fetal Surgery. <i>American Journal of Neuroradiology</i> , 2019 , 40, 191-198	4.4	12
140	Artificial intelligence for the real-time classification of intrapapillary capillary loop patterns in the endoscopic diagnosis of early oesophageal squamous cell carcinoma: A proof-of-concept study. <i>United European Gastroenterology Journal</i> , 2019 , 7, 297-306	5.3	47
139	Separating fetal and maternal placenta circulations using multiparametric MRI. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 350-361	4.4	42
138	Evaluation of Haptic Feedback on Bimanually Teleoperated Laparoscopy for Endometriosis Surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 1207-1221	5	12
137	An artificial intelligence framework for automatic segmentation and volumetry of vestibular schwannomas from contrast-enhanced T1-weighted and high-resolution T2-weighted MRI. <i>Journal of Neurosurgery</i> , 2019 , 1-9	3.2	21
136	Automatic Brain Tumor Segmentation Using Cascaded Anisotropic Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 178-190	0.9	168
135	Haptic Guidance Based on All-Optical Ultrasound Distance Sensing for Safer Minimally Invasive Fetal Surgery. <i>Journal of Medical Robotics Research</i> , 2018 , 3,	1.1	9
134	Interactive Medical Image Segmentation Using Deep Learning With Image-Specific Fine Tuning. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 1562-1573	11.7	307
133	NiftyNet: a deep-learning platform for medical imaging. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 158, 113-122	6.9	284
132	Retrieval and registration of long-range overlapping frames for scalable mosaicking of in vivo fetoscopy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 713-720	3.9	9
131	Effective deep learning training for single-image super-resolution in endomicroscopy exploiting video-registration-based reconstruction. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 917-924	3.9	22
130	AI feasibility study on adaptive F-FDG-PET-guided radiotherapy for recurrent and second primary head and neck cancer in the previously irradiated territory. <i>Strahlentherapie Und Onkologie</i> , 2018 , 194, 727-736	4.3	4

129	Volumetric reconstruction from printed films: Enabling 30 year longitudinal analysis in MR neuroimaging. <i>NeuroImage</i> , 2018 , 165, 238-250	7.9	8
128	Gel wax-based tissue-mimicking phantoms for multispectral photoacoustic imaging. <i>Biomedical Optics Express</i> , 2018 , 9, 1151-1163	3.5	33
127	A mixed-reality surgical trainer with comprehensive sensing for fetal laser minimally invasive surgery. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 1949-1957	3.9	17
126	Development of an alveolar transbronchial catheter for concurrent fiber optics based imaging and fluid delivery. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2018 , 12,	1.3	2
125	Weakly-supervised convolutional neural networks for multimodal image registration. <i>Medical Image Analysis</i> , 2018 , 49, 1-13	15.4	154
124	A magnetic resonance multi-atlas for the neonatal rabbit brain. <i>NeuroImage</i> , 2018 , 179, 187-198	7.9	5
123	Automatic segmentation method of pelvic floor levator hiatus in ultrasound using a self-normalizing neural network. <i>Journal of Medical Imaging</i> , 2018 , 5, 021206	2.6	11
122	Probabilistic visual and electromagnetic data fusion for robust drift-free sequential mosaicking: application to fetoscopy. <i>Journal of Medical Imaging</i> , 2018 , 5, 021217	2.6	6
121	Human placental vasculature imaging using an LED-based photoacoustic/ultrasound imaging system 2018 ,		4
120	MRI Measurement of Placental Perfusion and Fetal Blood Oxygen Saturation in Normal Pregnancy and Placental Insufficiency. <i>Lecture Notes in Computer Science</i> , 2018 , 913-920	0.9	1
119	Model-Based Refinement of Nonlinear Registrations in 3D Histology Reconstruction. <i>Lecture Notes in Computer Science</i> , 2018 , 147-155	0.9	1
118	Joint Multimodal Segmentation of Clinical CT and MR from Hip Arthroplasty Patients. <i>Lecture Notes in Computer Science</i> , 2018 , 72-84	0.9	2
117	Generalised Wasserstein Dice Score for Imbalanced Multi-class Segmentation Using Holistic Convolutional Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 64-76	0.9	45
116	External partial breast irradiation in prone position: how to improve accuracy?. <i>Acta Oncologica</i> , 2018 , 57, 1339-1345	3.2	1
115	Late mucosal ulcers in dose-escalated adaptive dose-painting treatments for head-and-neck cancer. <i>Acta Oncologica</i> , 2018 , 57, 262-268	3.2	19
114	Anatomically realistic ultrasound phantoms using gel wax with 3D printed moulds. <i>Physics in Medicine and Biology</i> , 2018 , 63, 015033	3.8	35
113	The conversational position in endoscopic pituitary surgery. <i>British Journal of Neurosurgery</i> , 2018 , 32, 44-46	1	8
112	From a Disposable Ureteroscope to an Active Lightweight Fetoscope-Characterization and Usability Evaluation. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 4359-4366	4.2	14

111	Registration of MRI and iUS Data to Compensate Brain Shift Using a Symmetric Block-Matching Based Approach. <i>Lecture Notes in Computer Science</i> , 2018 , 172-178	0.9	7
110	Adversarial Deformation Regularization for Training Image Registration Neural Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 774-782	0.9	27
109	Joint registration and synthesis using a probabilistic model for alignment of MRI and histological sections. <i>Medical Image Analysis</i> , 2018 , 50, 127-144	15.4	18
108	An Automated Localization, Segmentation and Reconstruction Framework for Fetal Brain MRI. <i>Lecture Notes in Computer Science</i> , 2018 , 313-320	0.9	15
107	EXclusion of non-Involved uterus from the Target Volume (EXIT-trial): an individualized treatment for locally advanced cervical cancer using modern radiotherapy and imaging techniques. <i>BMC Cancer</i> , 2018 , 18, 898	4.8	1
106	Patient-Specific 3D Printed Models for Education, Research and Surgical Simulation 2018 ,		5
105	Forward-backward splitting in deformable image registration: A demons approach 2018 ,		2
104	Label-driven weakly-supervised learning for multimodal deformable image registration 2018 ,		46
103	Towards computer-assisted TTTS: Laser ablation detection for workflow segmentation from fetoscopic video. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 1661-1670	3.9	5
102	Does an integrated boost increase acute toxicity in prone hypofractionated breast irradiation? A randomized controlled trial. <i>Radiotherapy and Oncology</i> , 2017 , 122, 30-36	5.3	15
101	A Continuum Robot and Control Interface for Surgical Assist in Fetoscopic Interventions. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1656-1663	4.2	30
100	Imaging the human placental microcirculation with micro-focus computed tomography: Optimisation of tissue preparation and image acquisition. <i>Placenta</i> , 2017 , 60, 36-39	3.4	11
99	Scalable Multimodal Convolutional Networks for Brain Tumour Segmentation. <i>Lecture Notes in Computer Science</i> , 2017 , 285-293	0.9	27
98	Medical-grade Sterilizable Target for Fluid-immersed Fetoscope Optical Distortion Calibration. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	3
97	The Bionic Clicker Mark I & II. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	1
96	Intraoperative Organ Motion Models with an Ensemble of Conditional Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 368-376	0.9	7
95	Long-term outcome of F-fluorodeoxyglucose-positron emission tomography-guided dose painting for head and neck cancer: Matched case-control study. <i>Head and Neck</i> , 2017 , 39, 2264-2275	4.2	28
94	Intraoperative Ultrasound in Patients Undergoing Transsphenoidal Surgery for Pituitary Adenoma: Systematic Review [corrected]. <i>World Neurosurgery</i> , 2017 , 106, 680-685	2.1	21

93	GIFT-Cloud: A data sharing and collaboration platform for medical imaging research. <i>Computer Methods and Programs in Biomedicine</i> , 2017 , 139, 181-190	6.9	34
92	3.4 RESERVOIR PRESSURE SEPARATION AT BRACHIAL, CAROTID AND RADIAL ARTERIES: A QUANTITATIVE COMPARISON AND EVALUATION. <i>Artery Research</i> , 2017 , 20, 54	2.2	1
91	P122 CALCULATING RESERVOIR PRESSURE WITH OR WITHOUT FLOW INFORMATION: SIMILARITY AND ALGORITHMIC SENSITIVITY AT RADIAL ARTERY. <i>Artery Research</i> , 2017 , 20, 78	2.2	
90	Refractive Structure-from-Motion Through a Flat Refractive Interface 2017 ,		10
89	Body wall force sensor for simulated minimally invasive surgery: Application to fetal surgery 2017 ,		3
88	ToolNet: Holistically-nested real-time segmentation of robotic surgical tools 2017 ,		59
87	Wide-field spectrally resolved quantitative fluorescence imaging system: toward neurosurgical guidance in glioma resection. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-14	3.5	7
86	Bruker2nifti: Magnetic Resonance Images converter from Bruker ParaVision to Nifti format. <i>Journal of Open Source Software</i> , 2017 , 2, 354	5.2	3
85	Point-Spread-Function-Aware Slice-to-Volume Registration: Application to Upper Abdominal MRI Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2017 , 3-13	0.9	3
84	Real-Time Segmentation of Non-rigid Surgical Tools Based on Deep Learning and Tracking. <i>Lecture Notes in Computer Science</i> , 2017 , 84-95	0.9	37
83	On the Compactness, Efficiency, and Representation of 3D Convolutional Networks: Brain Parcellation as a Pretext Task. <i>Lecture Notes in Computer Science</i> , 2017 , 348-360	0.9	109
82	Generalised Dice Overlap as a Deep Learning Loss Function for Highly Unbalanced Segmentations. <i>Lecture Notes in Computer Science</i> , 2017 , 240-248	0.9	547
81	Freehand Ultrasound Image Simulation with Spatially-Conditioned Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 105-115	0.9	23
80	Template-Free Estimation of Intracranial Volume: A Preterm Birth Animal Model Study. <i>Lecture Notes in Computer Science</i> , 2017 , 3-13	0.9	
79	Strengths and Pitfalls of Whole-Heart Atlas-Based Segmentation in Congenital Heart Disease Patients. <i>Lecture Notes in Computer Science</i> , 2017 , 139-146	0.9	1
78	Optimal number of atlases and label fusion for automatic multi-atlas-based brachial plexus contouring in radiotherapy treatment planning. <i>Radiation Oncology</i> , 2016 , 11, 1	4.2	26
77	Intensity modulated arc therapy implementation in a three phase adaptive (18)F-FDG-PET voxel intensity-based planning strategy for head-and-neck cancer. <i>Radiation Oncology</i> , 2016 , 11, 52	4.2	11
76	Real-time mosaicing of fetoscopic videos using SIFT 2016 ,		7

75	Music-of-light stethoscope: a demonstration of the photoacoustic effect. <i>Physics Education</i> , 2016 , 51, 045015	0.8	5
74	Dynamically Balanced Online Random Forests for Interactive Scribble-Based Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 352-360	0.9	3
73	Bilateral Weighted Adaptive Local Similarity Measure for Registration in Neurosurgery. <i>Lecture Notes in Computer Science</i> , 2016 , 81-88	0.9	
72	A Combined EM and Visual Tracking Probabilistic Model for Robust Mosaicking: Application to Fetoscopy 2016 ,		5
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