

Gabor Fichtinger

List of Publications by Year in descending order

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56
papers

2,161
citations

331670

21
h-index

233421

45
g-index

56
all docs

56
docs citations

56
times ranked

2065
citing authors

#	ARTICLE	IF	CITATIONS
1	PLUS: Open-Source Toolkit for Ultrasound-Guided Intervention Systems. IEEE Transactions on Biomedical Engineering, 2014, 61, 2527-2537.	4.2	302
2	OpenIGTLink: an open network protocol for image-guided therapy environment. International Journal of Medical Robotics and Computer Assisted Surgery, 2009, 5, 423-434.	2.3	261
3	Medical Robotics and Computer-Integrated Surgery. Springer Handbooks, 2016, , 1657-1684.	0.6	198
4	System for Robotically Assisted Prostate Biopsy and Therapy with Intraoperative CT Guidance. Academic Radiology, 2002, 9, 60-74.	2.5	141
5	Open-source platforms for navigated image-guided interventions. Medical Image Analysis, 2016, 33, 181-186.	11.6	117
6	Surgical and Interventional Robotics - Core Concepts, Technology, and Design [Tutorial]. IEEE Robotics and Automation Magazine, 2008, 15, 122-130.	2.0	115
7	An MRI-Compatible Robotic System With Hybrid Tracking for MRI-Guided Prostate Intervention. IEEE Transactions on Biomedical Engineering, 2011, 58, 3049-3060.	4.2	85
8	System for Robotically Assisted Percutaneous Procedures with Computed Tomography Guidance. Computer Aided Surgery, 2001, 6, 370-383.	1.8	78
9	Spinal Curvature Measurement by Tracked Ultrasound Snapshots. Ultrasound in Medicine and Biology, 2014, 40, 447-454.	1.5	73
10	Comparison of 3D Echocardiogram-Derived 3D Printed Valve Models to Molded Models for Simulated Repair of Pediatric Atrioventricular Valves. Pediatric Cardiology, 2018, 39, 538-547.	1.3	66
11	Spinal Needle Navigation by Tracked Ultrasound Snapshots. IEEE Transactions on Biomedical Engineering, 2012, 59, 2766-2772.	4.2	58
12	Perk Tutor: An Open-Source Training Platform for Ultrasound-Guided Needle Insertions. IEEE Transactions on Biomedical Engineering, 2012, 59, 3475-3481.	4.2	55
13	System for robotically assisted percutaneous procedures with computed tomography guidance. Computer Aided Surgery, 2001, 6, 370-383.	1.8	54
14	Polymorph segmentation representation for medical image computing. Computer Methods and Programs in Biomedicine, 2019, 171, 19-26.	4.7	44
15	Automatic Spine Ultrasound Segmentation for Scoliosis Visualization and Measurement. IEEE Transactions on Biomedical Engineering, 2020, 67, 3234-3241.	4.2	37
16	<i>dcmqi</i>: An Open Source Library for Standardized Communication of Quantitative Image Analysis Results Using DICOM. Cancer Research, 2017, 77, e87-e90.	0.9	31
17	Full Motion Tracking in Ultrasound Using Image Speckle Information and Visual Servoing. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	30
18	Needle deflection estimation: prostate brachytherapy phantom experiments. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 921-929.	2.8	29

#	ARTICLE	IF	CITATIONS
19	Design of a teleoperated needle steering system for MRI-guided prostate interventions. , 2012, 2012, 793-798.		28
20	Real-time tracking of a bevel-tip needle with varying insertion depth: Toward teleoperated MRI-guided needle steering. , 2013, , .		27
21	Dynamic Three-Dimensional Geometry of the Tricuspid Valve Annulus in Hypoplastic Left Heart Syndrome with a Fontan Circulation. Journal of the American Society of Echocardiography, 2019, 32, 655-666.e13.	2.8	27
22	SlicerVR for Medical Intervention Training and Planning in Immersive Virtual Reality. IEEE Transactions on Medical Robotics and Bionics, 2020, 2, 108-117.	3.2	25
23	Image-Guided Interventional Robotics: Lost in Translation?. Proceedings of the IEEE, 2022, 110, 932-950.	21.3	25
24	Simultaneous localization and calibration for electromagnetic tracking systems. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 189-198.	2.3	23
25	Localization of Pelvic Anatomical Coordinate System Using US/Atlas Registration for Total Hip Replacement. Lecture Notes in Computer Science, 2008, 11, 871-879.	1.3	21
26	Tracked Ultrasound Snapshots in Percutaneous Pedicle Screw Placement Navigation: A Feasibility Study. Clinical Orthopaedics and Related Research, 2013, 471, 4047-4055.	1.5	20
27	Toward predictive modeling of catheterâ€based pulmonary valve replacement into native right ventricular outflow tracts. Catheterization and Cardiovascular Interventions, 2019, 93, E143-E152.	1.7	18
28	Validation of MRI to TRUS registration for high-dose-rate prostate brachytherapy. Brachytherapy, 2018, 17, 283-290.	0.5	17
29	Image Segmentation and Modeling of the Pediatric Tricuspid Valve in Hypoplastic Left Heart Syndrome. Lecture Notes in Computer Science, 2017, 10263, 95-105.	1.3	17
30	Interaction with Volume-Rendered Three-Dimensional Echocardiographic Images in Virtual Reality. Journal of the American Society of Echocardiography, 2018, 31, 1158-1160.	2.8	16
31	Machine learning methods for automated technical skills assessment with instructional feedback in ultrasound-guided interventions. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1993-2003.	2.8	16
32	Ultrasound-Guided Characterization of Interstitial Ablated Tissue Using RF Time Series: Feasibility Study. IEEE Transactions on Biomedical Engineering, 2013, 60, 1608-1618.	4.2	15
33	Improved electromagnetic tracking for catheter path reconstruction with application in high-dose-rate brachytherapy. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 681-689.	2.8	14
34	Simulation of Transcatheter Atrial and Ventricular Septal Defect Device Closure Within Three-Dimensional Echocardiographyâ€Derived Heart Models on Screen and in Virtual Reality. Journal of the American Society of Echocardiography, 2020, 33, 641-644.e2.	2.8	11
35	Realâ€time electromagnetic navigation for breastâ€conserving surgery using NaviKnife technology: A matched caseâ€control study. Breast Journal, 2020, 26, 399-405.	1.0	9
36	Application of Intraoperative Mass Spectrometry and Data Analytics for Oncological Margin Detection, A Review. IEEE Transactions on Biomedical Engineering, 2022, 69, 2220-2232.	4.2	7

#	ARTICLE	IF	CITATIONS
37	Ultrasound-, CT- and MR-Guided Robot-Assisted Interventions. , 2008, , 393-409.		5
38	Patient-specific pediatric silicone heart valve models based on 3D ultrasound. , 2017, 10135, .		5
39	Real-time workflow detection using webcam video for providing real-time feedback in central venous catheterization training. , 2018, , .		5
40	Combined Mass Spectrometry and Histopathology Imaging for Perioperative Tissue Assessment in Cancer Surgery. Journal of Imaging, 2021, 7, 203.	3.0	5
41	Hole filling with oriented sticks in ultrasound volume reconstruction. Journal of Medical Imaging, 2015, 2, 034002.	1.5	4
42	Objective assessment of colonoscope manipulation skills in colonoscopy training. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 105-114.	2.8	4
43	System for Central Venous Catheterization Training Using Computer Vision-Based Workflow Feedback. IEEE Transactions on Biomedical Engineering, 2022, 69, 1630-1638.	4.2	4
44	Evaluation of the Intel RealSense SR300 camera for image-guided interventions and application in vertebral level localization. Proceedings of SPIE, 2017, , .	0.8	3
45	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
46	Simulation of Delivery of Clip-Based Therapies Within Multimodality Images to Facilitate Preprocedural Planning. Journal of the American Society of Echocardiography, 2021, 34, 1111-1114.	2.8	3
47	Overall Proficiency Assessment in Point-of-Care Ultrasound Interventions: The Stopwatch is not Enough. Lecture Notes in Computer Science, 2017, , 146-153.	1.3	3
48	Open-Source Tool Kit for Interactive Planning of Transcatheter Mitral Valve Replacement Using Multimodality Imaging. Journal of the American Society of Echocardiography, 2021, 34, 917-920.	2.8	2
49	Bridging 3D Slicer and ROS2 for Image-Guided Robotic Interventions. Sensors, 2022, 22, 5336.	3.8	2
50	NEW APPROACHES TO CALIBRATION AND SEGMENTATION IN INTERVENTIONAL ULTRASOUND. , 2007, , .		1
51	Improved Temporal Calibration of Tracked Ultrasound: An Open-Source Solution. Journal of Medical Robotics Research, 2017, 02, 1750008.	1.2	1
52	Surgery Tutor for Computational Assessment of Technical Proficiency in Soft-Tissue Tumor Resection in a Simulated Setting. Journal of Surgical Education, 2019, 76, 872-880.	2.5	1
53	Affordable Medical Ultrasound Navigation Training. , 2019, , .		0
54	Design of an Ultrasound-Navigated Prostate Cancer Biopsy System for Nationwide Implementation in Senegal. Journal of Imaging, 2021, 7, 154.	3.0	0

#	ARTICLE	IF	CITATIONS
55	Fractional labelmaps for computing accurate dose volume histograms. Proceedings of SPIE, 2017, , .	0.8	0
56	Localization of the transverse processes in ultrasound for spinal curvature measurement. Proceedings of SPIE, 2017, , .	0.8	0