

Vincenzo Ferrari

List of Publications by Citations

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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.

121
papers

1,967
citations

22
h-index

39
g-index

132
ext. papers

2,574
ext. citations

2.6
avg, IF

5.2
L-index

#	Paper	IF	Citations
121	A Systematic Review of Virtual Reality Simulators for Robot-assisted Surgery. <i>European Urology</i> , 2016 , 69, 1065-80	10.2	167
120	Augmented reality in neurosurgery: a systematic review. <i>Neurosurgical Review</i> , 2017 , 40, 537-548	3.9	148
119	Augmented reality as an aid in maxillofacial surgery: validation of a wearable system allowing maxillary repositioning. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014 , 42, 1970-6	3.6	124
118	Technical review of the da Vinci surgical telemanipulator. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2013 , 9, 396-406	2.9	117
117	How to Build a Patient-Specific Hybrid Simulator for Orthopaedic Open Surgery: Benefits and Limits of Mixed-Reality Using the Microsoft HoloLens. <i>Journal of Healthcare Engineering</i> , 2018 , 2018, 5435097	3.7	57
116	Perceptual Limits of Optical See-Through Visors for Augmented Reality Guidance of Manual Tasks. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 411-419	5	52
115	A 3-D mixed-reality system for stereoscopic visualization of medical dataset. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2627-33	5	50
114	Augmented reality in open surgery. <i>Updates in Surgery</i> , 2018 , 70, 389-400	2.9	49
113	A new head-mounted display-based augmented reality system in neurosurgical oncology: a study on phantom. <i>Computer Assisted Surgery</i> , 2017 , 22, 39-53	1.8	49
112	Laparoscopic treatment of splenic artery aneurysms. <i>Journal of Vascular Surgery</i> , 2009 , 50, 275-9	3.5	49
111	Robot-assisted versus laparoscopic rectal resection for cancer in a single surgeon's experience: a cost analysis covering the initial 50 robotic cases with the da Vinci Si. <i>International Journal of Colorectal Disease</i> , 2016 , 31, 1639-48	3	47
110	Distribution of innate ability for surgery amongst medical students assessed by an advanced virtual reality surgical simulator. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2014 , 28, 1830-7	5.2	34
109	Value of multidetector computed tomography image segmentation for preoperative planning in general surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2012 , 26, 616-26	5.2	32
108	Robotic assisted versus pure laparoscopic surgery of the adrenal glands: a case-control study comparing surgical techniques. <i>Langenbeck's Archives of Surgery</i> , 2016 , 401, 999-1006	3.4	31
107	How to build patient-specific synthetic abdominal anatomies. An innovative approach from physical toward hybrid surgical simulators. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2011 , 7, 202-13	2.9	31
106	Electromagnetic navigation platform for endovascular surgery: how to develop sensorized catheters and guidewires. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2012 , 8, 300-10	2.9	30
105	Simultaneous tracking of catheters and guidewires: comparison to standard fluoroscopic guidance for arterial cannulation. <i>European Journal of Vascular and Endovascular Surgery</i> , 2014 , 47, 53-60	2.3	27

104	Robust and Accurate Algorithm for Wearable Stereoscopic Augmented Reality with Three Indistinguishable Markers. <i>Electronics (Switzerland)</i> , 2016 , 5, 59	2.6	25
103	Use of the new Da Vinci Xi during robotic rectal resection for cancer: technical considerations and early experience. <i>International Journal of Colorectal Disease</i> , 2015 , 30, 1281-3	3	24
102	Augmented reality visualization of deformable tubular structures for surgical simulation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2016 , 12, 231-40	2.9	24
101	Patient-specific ultrasound liver phantom: materials and fabrication method. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1065-75	3.9	23
100	. <i>IEEE Access</i> , 2020 , 8, 706-720	3.5	23
99	An optimal design for patient-specific templates for pedicle spine screws placement. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2013 , 9, 298-304	2.9	22
98	Video see through AR head-mounted display for medical procedures 2014 ,		22
97	EndoCAS navigator platform: a common platform for computer and robotic assistance in minimally invasive surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2008 , 4, 242-51 ^{2.9}	2.9	20
96	Mixed reality for robotic treatment of a splenic artery aneurysm. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2010 , 24, 1204	5.2	19
95	. <i>IEEE Access</i> , 2020 , 8, 59015-59028	3.5	18
94	Distribution of innate psychomotor skills recognized as important for surgical specialization in unconditioned medical undergraduates. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2018 , 32, 4087-4095	5.2	18
93	Application of a New Wearable Augmented Reality Video See-Through Display to Aid Percutaneous Procedures in Spine Surgery. <i>Lecture Notes in Computer Science</i> , 2016 , 43-54	0.9	18
92	Autostereoscopic three-dimensional viewer evaluation through comparison with conventional interfaces in laparoscopic surgery. <i>Surgical Innovation</i> , 2011 , 18, 223-30	2	18
91	Wearable Augmented Reality Platform for Aiding Complex 3D Trajectory Tracing. <i>Sensors</i> , 2020 , 20,	3.8	17
90	Use of a new integrated table motion for the da Vinci Xi in colorectal surgery. <i>International Journal of Colorectal Disease</i> , 2016 , 31, 1671-3	3	17
89	Augmented Reality to Improve Surgical Simulation. Lessons Learned Towards the Design of a Hybrid Laparoscopic Simulator for Cholecystectomy. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 ,	5	17
88	Perspective Preserving Solution for Quasi-Orthoscopic Video See-Through HMDs. <i>Technologies</i> , 2018 , 6, 9	2.4	16
87	The Wearable VOSTARS System for Augmented Reality-Guided Surgery: Preclinical Phantom Evaluation for High-Precision Maxillofacial Tasks. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	16

86	Review of the Augmented Reality Systems for Shoulder Rehabilitation. <i>Information (Switzerland)</i> , 2019 , 10, 154	2.6	15
85	Influence of videogames and musical instruments on performances at a simulator for robotic surgery. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2017 , 26, 129-134	2.1	14
84	Hybrid simulation using mixed reality for interventional ultrasound imaging training. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1109-15	3.9	14
83	Assessment of DICOM Viewers Capable of Loading Patient-specific 3D Models Obtained by Different Segmentation Platforms in the Operating Room. <i>Journal of Digital Imaging</i> , 2015 , 28, 518-27	5.3	14
82	Toed-in vs Parallel Displays in Video See-Through Head-Mounted Displays for Close-Up View. <i>IEEE Access</i> , 2019 , 7, 159698-159711	3.5	14
81	Evaluation of a Wearable AR Platform for Guiding Complex Craniotomies in Neurosurgery. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 2590-2605	4.7	14
80	[POSTER] Hybrid Video/Optical See-Through HMD 2017 ,		13
79	Wearable Augmented Reality Application for Shoulder Rehabilitation. <i>Electronics (Switzerland)</i> , 2019 , 8, 1178	2.6	13
78	Comparative health technology assessment of robotic-assisted, direct manual laparoscopic and open surgery: a prospective study. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2017 , 31, 543-551	5.2	12
77	Full Robotic Colorectal Resections for Cancer Combined With Other Major Surgical Procedures: Early Experience With the da Vinci Xi. <i>Surgical Innovation</i> , 2017 , 24, 321-327	2	12
76	A Microsoft HoloLens Mixed Reality Surgical Simulator for Patient-Specific Hip Arthroplasty Training. <i>Lecture Notes in Computer Science</i> , 2018 , 201-210	0.9	11
75	Anthropomorphic ultrasound elastography phantoms - characterization of silicone materials to build breast elastography phantoms. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 100-4	0.9	11
74	Human-PnP: Ergonomic AR Interaction Paradigm for Manual Placement of Rigid Bodies. <i>Lecture Notes in Computer Science</i> , 2015 , 50-60	0.9	11
73	Augmented Reality, Mixed Reality, and Hybrid Approach in Healthcare Simulation: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2338	2.6	11
72	Augmented Reality-Assisted Craniotomy for Parasagittal and Convexity En Plaque Meningiomas and Custom-Made Cranio-Plasty: A Preliminary Laboratory Report. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	11
71	Bioreactor With Electrically Deformable Curved Membranes for Mechanical Stimulation of Cell Cultures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 22	5.8	10
70	Proficiency-based training of medical students using virtual simulators for laparoscopy and robot-assisted surgery: results of a pilot study. <i>Updates in Surgery</i> , 2018 , 70, 401-405	2.9	10
69	3D ultrasound centerline tracking of abdominal vessels for endovascular navigation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2014 , 9, 127-35	3.9	10

68	[Poster] HMD Video see through AR with unfixed cameras vergence 2014 ,		10
67	Ambiguity-Free Optical-Inertial Tracking for Augmented Reality Headsets. <i>Sensors</i> , 2020 , 20,	3.8	9
66	Tactile Augmented Reality for Arteries Palpation in Open Surgery Training. <i>Lecture Notes in Computer Science</i> , 2016 , 186-197	0.9	9
65	Anatomical localization of deep infiltrating endometriosis: 3D MRI reconstructions. <i>Abdominal Imaging</i> , 2012 , 37, 1110-21		9
64	A semiautomatic method for in vivo three-dimensional quantitative analysis of fascial layers mobility based on 3D ultrasound scans. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1721-35	3.9	8
63	Patient-specific surgical simulator for the pre-operative planning of single-incision laparoscopic surgery with bimanual robots. <i>Computer Aided Surgery</i> , 2012 , 17, 103-12		8
62	Augmented Reality Simulator for Laparoscopic Cholecystectomy Training. <i>Lecture Notes in Computer Science</i> , 2014 , 428-433	0.9	8
61	A tele-ultrasonographic platform to collect specialist second opinion in less specialized hospitals. <i>Updates in Surgery</i> , 2018 , 70, 407-413	2.9	7
60	Computed-tomography image segmentation and 3D-reconstruction of the female pelvis for the preoperative planning of sacrocolpopexy: preliminary data. <i>International Urogynecology Journal</i> , 2019 , 30, 725-731	2	7
59	Low-Computational Cost Stitching Method in a Three-Eyed Endoscope. <i>Journal of Healthcare Engineering</i> , 2019 , 2019, 5613931	3.7	7
58	Ultrasound guided robotic biopsy using augmented reality and human-robot cooperative control. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5110-3	0.9	7
57	Projected Augmented Reality to Drive Osteotomy Surgery: Implementation and Comparison With Video See-Through Technology. <i>IEEE Access</i> , 2020 , 8, 169024-169035	3.5	7
56	Letter to the Editor: Augmented reality-guided neurosurgery. <i>Journal of Neurosurgery</i> , 2016 , 125, 235-7	3.2	7
55	Closed Loop Calibration for Optical See-Through Near Eye Display with Infinity Focus 2018 ,		7
54	Monitoring Wound Healing With Contactless Measurements and Augmented Reality. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2020 , 8, 2700412	3	6
53	Face, content, and construct validity of a simulator for training in endovascular procedures. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2018 , 27, 315-320	2.1	6
52	Electromagnetic Guided In-Situ Laser Fenestration of Endovascular Stent-Graft: Endovascular Tools Sensorization Strategy and Preliminary Laser Testing. <i>Lecture Notes in Computer Science</i> , 2016 , 72-83	0.9	6
51	Augmented reality system for freehand guide of magnetic endovascular devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 490-3	0.9	6

50	Computer guidance system for single-incision bimanual robotic surgery. <i>Computer Aided Surgery</i> , 2012 , 17, 161-71		6
49	AR Visualization of "Synthetic Calot's Triangle" for Training in Cholecystectomy 2016 ,		6
48	Optical See-Through Head-Mounted Displays With Short Focal Distance: Conditions for Mitigating Parallax-Related Registration Error. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 572001	2.8	6
47	Off-Line Camera-Based Calibration for Optical See-Through Head-Mounted Displays. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 193	2.6	5
46	Design of a sensorized guiding catheter for in situ laser fenestration of endovascular stent. <i>Computer Assisted Surgery</i> , 2017 , 22, 27-38	1.8	5
45	The Role of Camera Convergence in Stereoscopic Video See-through Augmented Reality Displays. <i>International Journal of Advanced Computer Science and Applications</i> , 2018 , 9,	1.7	5
44	Robust Laparoscopic Instruments Tracking Using Colored Strips. <i>Lecture Notes in Computer Science</i> , 2017 , 129-143	0.9	5
43	A computer-assisted robotic platform for vascular procedures exploiting 3D US-based tracking. <i>Computer Assisted Surgery</i> , 2016 , 21, 63-79	1.8	5
42	Performances on simulator and da Vinci robot on subjects with and without surgical background. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2018 , 27, 309-314	2.1	5
41	In Situ Visualization for 3D Ultrasound-Guided Interventions with Augmented Reality Headset. <i>Bioengineering</i> , 2021 , 8,	5.3	5
40	Patient specific surgical simulator for the evaluation of the movability of bimanual robotic arms. <i>Studies in Health Technology and Informatics</i> , 2011 , 163, 379-85	0.5	5
39	Improving Endovascular Intraoperative Navigation with Real-Time Skeleton-Based Deformation of Virtual Vascular Structures. <i>Lecture Notes in Computer Science</i> , 2016 , 82-91	0.9	4
38	A Wearable Augmented Reality Platform for Telemedicine. <i>Lecture Notes in Computer Science</i> , 2016 , 92-100	0.9	4
37	Hybrid Simulation and Planning Platform for Cryosurgery with Microsoft HoloLens. <i>Sensors</i> , 2021 , 21,	3.8	4
36	The vostars project: a new wearable hybrid video and optical see-through augmented reality surgical system for maxillofacial surgery. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2019 , 48, 153	2.9	4
35	Hybrid Spine Simulator Prototype for X-ray Free Pedicle Screws Fixation Training. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1038	2.6	4
34	Basic Endovascular Skills Trainer: A surgical simulator for the training of novice practitioners of endovascular procedures. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 5102-5	0.9	3
33	Ultrasound-based tracking strategy for endoluminal devices in cardiovascular surgery. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2015 , 11, 319-330	2.9	3

32	New training methods based on mixed reality for interventional ultrasound: Design and validation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 5098-101</i>	0.9	3
31	Automatic carotid centerline extraction from three-dimensional ultrasound Doppler images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 5089-92</i>	0.9	3
30	Virtual Reality Surgical Navigation System for Holmium Laser Enucleation of the Prostate. <i>Lecture Notes in Computer Science, 2014, 79-89</i>	0.9	3
29	Parallax Free Registration for Augmented Reality Optical See-through Displays in the Peripersonal Space. <i>IEEE Transactions on Visualization and Computer Graphics, 2020, PP,</i>	4	3
28	Wearable Augmented Reality Optical See Through Displays Based on Integral Imaging. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, 345-356</i>	0.2	3
27	Using of 3D Virtual Reality Electromagnetic Navigation for Challenging Cannulation in FEVAR Procedure. <i>Lecture Notes in Computer Science, 2017, 221-229</i>	0.9	3
26	Definition of Proficiency Level by a Virtual Simulator as a First Step Toward a Curriculum on Fundamental Skills for Endovascular Aneurysm Repair (EVAR). <i>Journal of Surgical Education, 2020, 77, 1592-1597</i>	3.4	3
25	AR interaction paradigm for closed reduction of long-bone fractures via external fixation 2016,		2
24	Configurable Software Framework for 2D/3D Video See-Through Displays in Medical Applications. <i>Lecture Notes in Computer Science, 2016, 30-42</i>	0.9	2
23	Patient-Specific Template for Spine Surgery 2016, 199-215		2
22	Proof of Concept: VR Rehabilitation Game for People with Shoulder Disorders. <i>Lecture Notes in Computer Science, 2019, 344-350</i>	0.9	2
21	Magnetic Resonance Imaging Based Three Dimensional Patient-Specific Reconstruction of Uterine Fibromatosis: Impact on Surgery. <i>Journal of Gynecologic Surgery, 2017, 33, 138-144</i>	0.4	2
20	Integration of biomechanical parameters in tetrahedral mass-spring models for virtual surgery simulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 4550-4</i>	0.9	2
19	Interactive serious game for shoulder rehabilitation based on real-time hand tracking. <i>Technology and Health Care, 2020, 28, 403-414</i>	1.1	2
18	Software Framework for VR-Enabled Transcatheter Valve Implantation in Unity. <i>Lecture Notes in Computer Science, 2019, 376-384</i>	0.9	2
17	A preliminary quantitative EEG study on Augmented Reality Guidance of Manual Tasks 2020,		2
16	In situ diode laser fenestration: An ex-vivo evaluation of irradiation effects on human aortic tissue. <i>Journal of Biophotonics, 2019, 12, e201900032</i>	3.1	1
15	Novel EM Guided Endovascular Instrumentation for In Situ Endograft Fenestration. <i>IEEE Journal of Translational Engineering in Health and Medicine, 2020, 8, 1900208</i>	3	1

14	Proof of Concept: Wearable Augmented Reality Video See-Through Display for Neuro-Endoscopy. <i>Lecture Notes in Computer Science</i> , 2018 , 95-104	0.9	1
13	A 3D sparse motion field filtering for quantitative analysis of fascial layers mobility based on 3D ultrasound scans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 775-80	0.9	1
12	Letter to the editor on "designing a wearable navigation system for image-guided cancer resection surgery". <i>Annals of Biomedical Engineering</i> , 2014 , 42, 2600-1	4.7	1
11	Architecture of a Hybrid Video/Optical See-through Head-Mounted Display-Based Augmented Reality Surgical Navigation Platform. <i>Information (Switzerland)</i> , 2022 , 13, 81	2.6	1
10	Wearable AR and 3D Ultrasound: Towards a Novel Way to Guide Surgical Dissections. <i>IEEE Access</i> , 2021 , 9, 156746-156757	3.5	1
9	Patient Specific Virtual and Physical Simulation Platform for Surgical Robot Movability Evaluation in Single-Access Robot-Assisted Minimally-Invasive Cardiothoracic Surgery. <i>Lecture Notes in Computer Science</i> , 2017 , 211-220	0.9	1
8	Wearable light field optical see-through display to avoid user dependent calibrations: A feasibility study 2016 ,		1
7	Can Liquid Lenses Increase Depth of Field in Head Mounted Video See-Through Devices?. <i>Journal of Imaging</i> , 2021 , 7,	3.1	1
6	Key Ergonomics Requirements and Possible Mechanical Solutions for Augmented Reality Head-Mounted Displays in Surgery. <i>Multimodal Technologies and Interaction</i> , 2022 , 6, 15	1.7	0
5	Projected Augmented Reality to Guide Manual Precision Tasks: An Alternative to Head Mounted Displays. <i>IEEE Transactions on Human-Machine Systems</i> , 2021 , 1-11	4.1	0
4	SK-MOEFS: A Library in Python for Designing Accurate and Explainable Fuzzy Models. <i>Communications in Computer and Information Science</i> , 2020 , 68-81	0.3	0
3	ValveTech: A Novel Robotic Approach for Minimally Invasive Aortic Valve Replacement. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1238-1249	5	0
2	Analytic description of the image to patient torso registration problem in image guided interventions. <i>Journal of Biomedical Engineering and Informatics</i> , 2015 , 1, 35		
1	Towards the Development of a Quasi-Orthoscopic Hybrid Video/Optical See-Through HMD for Manual Tasks. <i>Lecture Notes in Computer Science</i> , 2019 , 170-178	0.9	