

Marina Carbone

List of Publications by Year in descending order

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48
papers

1,031
citations

471509

17
h-index

454955

30
g-index

49
all docs

49
docs citations

49
times ranked

1078
citing authors

#	ARTICLE	IF	CITATIONS
1	Augmented reality in neurosurgery: a systematic review. <i>Neurosurgical Review</i> , 2017, 40, 537-548.	2.4	233
2	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.	4.2	96
3	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.	1.3	69
4	Augmented Reality, Mixed Reality, and Hybrid Approach in Healthcare Simulation: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2338.	2.5	50
5	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, 202-213.	2.3	41
6	Value of multidetector computed tomography image segmentation for preoperative planning in general surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2012, 26, 616-626.	2.4	40
7	Patient-specific ultrasound liver phantom: materials and fabrication method. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1065-1075.	2.8	39
8	Wearable Augmented Reality Platform for Aiding Complex 3D Trajectory Tracing. <i>Sensors</i> , 2020, 20, 1612.	3.8	34
9	Review of the Augmented Reality Systems for Shoulder Rehabilitation. <i>Information (Switzerland)</i> , 2019, 10, 154.	2.9	33
10	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, 3562.	2.4	31
11	Speed of sound in rubber-based materials for ultrasonic phantoms. <i>Journal of Ultrasound</i> , 2016, 19, 251-256.	1.3	30
12	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.	2.3	28
13	Augmented reality visualization of deformable tubular structures for surgical simulation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2016, 12, 231-240.	2.3	28
14	Are augmented reality headsets in surgery a dead end?. <i>Expert Review of Medical Devices</i> , 2019, 16, 999-1001.	2.8	24
15	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.	1.3	22
16	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, 518-527.	2.9	21
17	Brain Tumor and Augmented Reality: New Technologies for the Future. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6347.	2.6	20
18	[POSTER] Hybrid Video/Optical See-Through HMD. , 2017, , .		17

#	ARTICLE	IF	CITATIONS
19	A tele-ultrasonographic platform to collect specialist second opinion in less specialized hospitals. <i>Updates in Surgery</i> , 2018, 70, 407-413.	2.0	17
20	Architecture of a Hybrid Video/Optical See-through Head-Mounted Display-Based Augmented Reality Surgical Navigation Platform. <i>Information (Switzerland)</i> , 2022, 13, 81.	2.9	15
21	High frequency poroelastic waves in hydrogels. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 1197-1207.	1.1	14
22	Commercially Available Head-Mounted Displays Are Unsuitable for Augmented Reality Surgical Guidance: A Call for Focused Research for Surgical Applications. <i>Surgical Innovation</i> , 2020, 27, 254-255.	0.9	14
23	Acoustic waves in hydrogels: A bi-phasic model for ultrasound tissue-mimicking phantom. <i>Materials Science and Engineering C</i> , 2009, 29, 899-907.	7.3	13
24	Anthropomorphic ultrasound elastography phantoms — Characterization of silicone materials to build breast elastography phantoms. , 2012, 2012, 492-4.		13
25	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.	1.4	10
26	A Wearable Augmented Reality Platform for Telemedicine. <i>Lecture Notes in Computer Science</i> , 2016, , 92-100.	1.3	8
27	Interactive serious game for shoulder rehabilitation based on real-time hand tracking. <i>Technology and Health Care</i> , 2020, 28, 403-414.	1.2	8
28	Computer guidance system for single-incision bimanual robotic surgery. <i>Computer Aided Surgery</i> , 2012, 17, 161-171.	1.8	6
29	New training methods based on mixed reality for interventional ultrasound: Design and validation. , 2015, 2015, 5098-101.		6
30	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.	1.2	6
31	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.	1.5	5
32	A preliminary quantitative EEG study on Augmented Reality Guidance of Manual Tasks. , 2020, , .		5
33	Total Hip Replacement Simulators with Virtual Planning and Physical Replica for Surgical Training and Rehearsal. , 2016, , .		5
34	LHF Connect: a DIY telepresence robot against COVID-19. <i>Strategic Design Research Journal</i> , 2020, 13, 418-431.	0.4	5
35	Basic Endovascular Skills Trainer: A surgical simulator for the training of novice practitioners of endovascular procedures. , 2015, 2015, 5102-5.		3
36	Proof of Concept: Wearable Augmented Reality Video See-Through Display for Neuro-Endoscopy. <i>Lecture Notes in Computer Science</i> , 2018, , 95-104.	1.3	3

#	ARTICLE	IF	CITATIONS
37	Wearable Augmented Reality Optical See Through Displays Based on Integral Imaging. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 345-356.	0.3	3
38	Device-Agnostic Augmented Reality Rendering Pipeline for AR in Medicine. , 2021, , .		3
39	Key Ergonomics Requirements and Possible Mechanical Solutions for Augmented Reality Head-Mounted Displays in Surgery. Multimodal Technologies and Interaction, 2022, 6, 15.	2.5	3
40	Recognizing AR-guided manual tasks through autonomic nervous system correlates: a preliminary study. , 2020, , .		2
41	Can Liquid Lenses Increase Depth of Field in Head Mounted Video See-Through Devices?. Journal of Imaging, 2021, 7, 138.	3.0	2
42	Simulation in spinal surgery: state of the art and future perspectives of simulation systems for surgical training. Minerva Orthopedics, 2021, 72, .	1.0	2
43	Towards a Wearable Augmented Reality Visor for High-Precision Manual Tasks. , 2020, , .		1
44	Tips on Ultrasound Phantoms Development for Structured Training. Simulation in Healthcare, 2020, 15, 133-134.	1.2	1
45	A Systematic Review on Methods and Tools for the In Situ Fenestration of Aortic Stent-Graft. IEEE Reviews in Biomedical Engineering, 2023, 16, 348-356.	18.0	0
46	Serious Games and Mixed Reality Applications for Healthcare. Applied Sciences (Switzerland), 2022, 12, 3644.	2.5	0
47	Use of Knee Fractures Physical Replicas for Surgical Training and Rehearsal: Proof of Concept Study. , 0, , .		0
48	Patients Specific Spine Simulators for Surgical Training and Rehearsal in Pedicle Screws Placement: A New Way for Surgical Education. , 0, , .		0