

Fabrizio Cutolo

List of Publications by Year in descending order

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63
papers

1,384
citations

393982

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63
all docs

63
docs citations

63
times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	Head-Mounted Augmented Reality Platform for Markerless Orthopaedic Navigation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 910-921.	3.9	18
2	Parallax Free Registration for Augmented Reality Optical See-Through Displays in the Peripersonal Space. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1608-1618.	2.9	12
3	Projected Augmented Reality to Guide Manual Precision Tasks: An Alternative to Head Mounted Displays. IEEE Transactions on Human-Machine Systems, 2022, 52, 567-577.	2.5	2
4	Key Ergonomics Requirements and Possible Mechanical Solutions for Augmented Reality Head-Mounted Displays in Surgery. Multimodal Technologies and Interaction, 2022, 6, 15.	1.7	3
5	Architecture of a Hybrid Video/Optical See-through Head-Mounted Display-Based Augmented Reality Surgical Navigation Platform. Information (Switzerland), 2022, 13, 81.	1.7	15
6	Brain Tumor and Augmented Reality: New Technologies for the Future. International Journal of Environmental Research and Public Health, 2022, 19, 6347.	1.2	20
7	Errata to "Parallax Free Registration for Augmented Reality Optical See-Through Displays in the Peripersonal Space" [1] (DOI: 10.1109/TVCG.2020.3021534). IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 3069-3069.	2.9	0
8	Hybrid Simulation and Planning Platform for Cryosurgery with Microsoft HoloLens. Sensors, 2021, 21, 4450.	2.1	14
9	Evaluation of a Wearable AR Platform for Guiding Complex Craniotomies in Neurosurgery. Annals of Biomedical Engineering, 2021, 49, 2590-2605.	1.3	34
10	Can Liquid Lenses Increase Depth of Field in Head Mounted Video See-Through Devices?. Journal of Imaging, 2021, 7, 138.	1.7	2
11	In Situ Visualization for 3D Ultrasound-Guided Interventions with Augmented Reality Headset. Bioengineering, 2021, 8, 131.	1.6	12
12	Augmented Reality-Assisted Craniotomy for Parasagittal and Convexity En Plaque Meningiomas and Custom-Made Cranio-Plasty: A Preliminary Laboratory Report. International Journal of Environmental Research and Public Health, 2021, 18, 9955.	1.2	28
13	Rotation-constrained optical see-through headset calibration with bare-hand alignment. , 2021, , .		4
14	Device-Agnostic Augmented Reality Rendering Pipeline for AR in Medicine. , 2021, , .		3
15	Wearable AR and 3D Ultrasound: Towards a Novel Way to Guide Surgical Dissections. IEEE Access, 2021, 9, 156746-156757.	2.6	5
16	Software Framework for Customized Augmented Reality Headsets in Medicine. IEEE Access, 2020, 8, 706-720.	2.6	37
17	Towards a Wearable Augmented Reality Visor for High-Precision Manual Tasks. , 2020, , .		1
18	The Wearable VOSTARS System for Augmented Reality-Guided Surgery: Preclinical Phantom Evaluation for High-Precision Maxillofacial Tasks. Journal of Clinical Medicine, 2020, 9, 3562.	1.0	31

#	ARTICLE	IF	CITATIONS
19	Projected Augmented Reality to Drive Osteotomy Surgery: Implementation and Comparison With Video See-Through Technology. IEEE Access, 2020, 8, 169024-169035.	2.6	17
20	Alignment-Free Offline Calibration of Commercial Optical See-Through Head-Mounted Displays With Simplified Procedures. IEEE Access, 2020, 8, 223661-223674.	2.6	15
21	Optical See-Through Head-Mounted Displays With Short Focal Distance: Conditions for Mitigating Parallax-Related Registration Error. Frontiers in Robotics and AI, 2020, 7, 572001.	2.0	11
22	Automatic Calibration of Commercial Optical See-Through Head-Mounted Displays for Medical Applications. , 2020, , .		2
23	Wearable Augmented Reality Platform for Aiding Complex 3D Trajectory Tracing. Sensors, 2020, 20, 1612.	2.1	34
24	Ambiguity-Free Opticalâ€œInertial Tracking for Augmented Reality Headsets. Sensors, 2020, 20, 1444.	2.1	12
25	Off-Line Camera-Based Calibration for Optical See-Through Head-Mounted Displays. Applied Sciences (Switzerland), 2020, 10, 193.	1.3	10
26	Review on Augmented Reality in Oral and Cranio-Maxillofacial Surgery: Toward â€œSurgery-Specificâ€œ Head-Up Displays. IEEE Access, 2020, 8, 59015-59028.	2.6	36
27	Low-Computational Cost Stitching Method in a Three-Eyed Endoscope. Journal of Healthcare Engineering, 2019, 2019, 1-12.	1.1	9
28	Augmented Reality in Healthcare. Journal of Healthcare Engineering, 2019, 2019, 1-2.	1.1	26
29	Letter to the Editor on â€œAugmented Reality Based Navigation for Computer Assisted Hip Resurfacing: A Proof of Concept Studyâ€œ. Annals of Biomedical Engineering, 2019, 47, 2151-2153.	1.3	12
30	Upbeat: Augmented Reality-Guided Dancing for Prosthetic Rehabilitation of Upper Limb Amputees. Journal of Healthcare Engineering, 2019, 2019, 1-9.	1.1	25
31	The vostars project: a new wearable hybrid video and optical see-through augmented reality surgical system for maxillofacial surgery. International Journal of Oral and Maxillofacial Surgery, 2019, 48, 153.	0.7	5
32	Toed-in vs Parallel Displays in Video See-Through Head-Mounted Displays for Close-Up View. IEEE Access, 2019, 7, 159698-159711.	2.6	23
33	Are augmented reality headsets in surgery a dead end?. Expert Review of Medical Devices, 2019, 16, 999-1001.	1.4	24
34	Augmented Reality to Improve Surgical Simulation: Lessons Learned Towards the Design of a Hybrid Laparoscopic Simulator for Cholecystectomy. IEEE Transactions on Biomedical Engineering, 2019, 66, 2091-2104.	2.5	32
35	Towards the Development of a Quasi-Orthoscopic Hybrid Video/Optical See-Through HMD for Manual Tasks. Lecture Notes in Computer Science, 2019, , 170-178.	1.0	0
36	Closed â€œ Loop Calibration for Optical See-Through Near Eye Display with Infinity Focus. , 2018, , .		9

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37	Proof of Concept: Wearable Augmented Reality Video See-Through Display for Neuro-Endoscopy. Lecture Notes in Computer Science, 2018, , 95-104.	1.0	3
38	Augmented reality in open surgery. Updates in Surgery, 2018, 70, 389-400.	0.9	78
39	Perspective Preserving Solution for Quasi-Orthoscopic Video See-Through HMDs. Technologies, 2018, 6, 9.	3.0	26
40	Augmented Reality in Image-Guided Surgery. , 2018, , 1-11.		3
41	The Role of Camera Convergence in Stereoscopic Video See-through Augmented Reality Displays. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.5	6
42	Augmented Reality in Image-Guided Surgery. , 2018, , 1-11.		1
43	Augmented reality in neurosurgery: a systematic review. Neurosurgical Review, 2017, 40, 537-548.	1.2	233
44	Simulation-guided navigation for vector control in pediatric mandibular distraction osteogenesis. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 969-980.	0.7	12
45	A new head-mounted display-based augmented reality system in neurosurgical oncology: a study on phantom. Computer Assisted Surgery, 2017, 22, 39-53.	0.6	69
46	[POSTER] Hybrid Video/Optical See-Through HMD. , 2017, , .		17
47	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.	0.2	3
48	Robust Laparoscopic Instruments Tracking Using Colored Strips. Lecture Notes in Computer Science, 2017, , 129-143.	1.0	6
49	Robust and Accurate Algorithm for Wearable Stereoscopic Augmented Reality with Three Indistinguishable Markers. Electronics (Switzerland), 2016, 5, 59.	1.8	37
50	Letter to the Editor: Augmented realityâ€“guided neurosurgery. Journal of Neurosurgery, 2016, 125, 235-237.	0.9	11
51	Augmented reality visualization of deformable tubular structures for surgical simulation. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 231-240.	1.2	28
52	AR interaction paradigm for closed reduction of long-bone fractures via external fixation. , 2016, , .		4
53	Configurable Software Framework for 2D/3D Video See-Through Displays in Medical Applications. Lecture Notes in Computer Science, 2016, , 30-42.	1.0	2
54	Application of a New Wearable Augmented Reality Video See-Through Display to Aid Percutaneous Procedures in Spine Surgery. Lecture Notes in Computer Science, 2016, , 43-54.	1.0	22

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55	AR Visualization of "Synthetic Calot's Triangle" for Training in Cholecystectomy. , 2016, , .		6
56	Human-PnP: Ergonomic AR Interaction Paradigm for Manual Placement of Rigid Bodies. Lecture Notes in Computer Science, 2015, , 50-60.	1.0	18
57	[Poster] HMD Video see through AR with unfixed cameras vergence. , 2014, , .		11
58	Video see through AR head-mounted display for medical procedures. , 2014, , .		31
59	Augmented reality system for freehand guide of magnetic endovascular devices. , 2014, 2014, 490-3.		10
60	Augmented reality as an aid in maxillofacial surgery: Validation of a wearable system allowing maxillary repositioning. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 1970-1976.	0.7	155
61	Neural correlates of human-robot handshaking. , 2010, , .		5
62	A sensorized glove for hand rehabilitation. , 2009, , .		2
63	Development of a novel algorithm for human fall detection using wearable sensors. , 2008, , .		42