

Michele Fiorentino

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,049
citations

304743

22
h-index

254184

43
g-index

81
all docs

81
docs citations

81
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	What, How, and Why are Visual Assets Used in Industrial Augmented Reality? A Systematic Review and Classification in Maintenance, Assembly, and Training (From 1997 to 2019). IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1443-1456.	4.4	50
2	Minimal AR: visual asset optimization for the authoring of augmented reality work instructions in manufacturing. International Journal of Advanced Manufacturing Technology, 2022, 119, 1769-1784.	3.0	22
3	Mixed Reality in STEM Didactics: Case Study of Assembly Drawings of Complex Machines. Lecture Notes in Mechanical Engineering, 2022, , 157-164.	0.4	0
4	Cinematic Virtual Reality as a Rehabilitative Tool in Subjects Affected by Schizophrenia. Lecture Notes in Mechanical Engineering, 2022, , 149-156.	0.4	0
5	CompassbAR: A Technique for Visualizing Out-of-View Objects in a Mixed Reality Environment. Lecture Notes in Mechanical Engineering, 2022, , 141-148.	0.4	3
6	A Coarse-Grained Lattice Spring Model to Characterize Nanoindented Stem Cells. Lecture Notes in Mechanical Engineering, 2022, , 623-629.	0.4	1
7	Design of a Mixed Reality Application for STEM Distance Education Laboratories. Computers, 2022, 11, 50.	3.3	10
8	Geometry optimization of scaffolds for bone tissue engineering. , 2021, , 277-301.		0
9	ErgoTakt: A novel approach of human-centered balancing of manual assembly lines. Procedia CIRP, 2021, 97, 354-360.	1.9	12
10	Nanoindentation of mesenchymal stem cells using atomic force microscopy: effect of adhesive cell-substrate structures. Nanotechnology, 2021, 32, 215706.	2.6	5
11	Sailing Data Visualization in Augmented Reality: Systematic Review, Issues, and Perspectives. Marine Technology Society Journal, 2021, 55, 64-80.	0.4	4
12	Augmented reality for maritime navigation data visualisation: a systematic review, issues and perspectives. Journal of Navigation, 2021, 74, 1073-1090.	1.7	22
13	Positive Computing in Virtual Reality Industrial Training. , 2021, , .		1
14	Augmented Reality Interface for Sailing Navigation: a User Study for Wind Representation. , 2021, , .		4
15	An Algorithm to Optimize the Micro-Geometrical Dimensions of Scaffolds with Spherical Pores. Materials, 2020, 13, 4062.	2.9	8
16	A Body Tracking-Based Low-Cost Solution for Monitoring Workers's™ Hygiene Best Practices during Pandemics. Sensors, 2020, 20, 6149.	3.8	8
17	Unveiling the technological trends of augmented reality: A patent analysis. Computers in Industry, 2020, 118, 103221.	9.9	54
18	Towards Next Generation Technical Documentation in Augmented Reality Using a Context-Aware Information Manager. Applied Sciences (Switzerland), 2020, 10, 780.	2.5	7

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19	Mechanobiological Approach to Design and Optimize Bone Tissue Scaffolds 3D Printed with Fused Deposition Modeling: A Feasibility Study. <i>Materials</i> , 2020, 13, 648.	2.9	27
20	AUTOMATIC ERGONOMIC POSTURAL RISK MONITORING ON THE FACTORY SHOPFLOOR –THE ERGOSENTINEL TOOL. <i>Procedia Manufacturing</i> , 2020, 42, 97-103.	1.9	27
21	Informing the Use of Visual Assets in Industrial Augmented Reality. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 106-117.	0.4	14
22	Effect of Cell Shape on Nanoindentation Measurements. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 37-44.	0.4	1
23	Design preferences on Industrial Augmented Reality: a survey with potential technical writers. , 2020, , .		18
24	Towards Sailing supported by Augmented Reality: Motivation, Methodology and Perspectives. , 2020, , .		8
25	User Study on Virtual Reality for Design Reviews in Architecture. , 2020, , .		3
26	A neural network-based software to recognise blepharospasm symptoms and to measure eye closure time. <i>Computers in Biology and Medicine</i> , 2019, 112, 103376.	7.0	7
27	A User-Centered Framework for Designing Midair Gesture Interfaces. <i>IEEE Transactions on Human-Machine Systems</i> , 2019, 49, 421-429.	3.5	16
28	A Context-Aware Technical Information Manager for Presentation in Augmented Reality. , 2019, , .		4
29	Irregular Load Adapted Scaffold Optimization: A Computational Framework Based on Mechanobiological Criteria. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5392-5411.	5.2	19
30	Towards augmented reality manuals for industry 4.0: A methodology. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019, 56, 276-286.	9.9	174
31	Exploiting Augmented Reality to Enhance Piping and Instrumentation Diagrams for Information Retrieval Tasks in Industry 4.0 Maintenance. <i>Lecture Notes in Computer Science</i> , 2019, , 170-180.	1.3	9
32	Converting maintenance actions into standard symbols for Augmented Reality applications in Industry 4.0. <i>Computers in Industry</i> , 2018, 98, 68-79.	9.9	92
33	Comparison of the mechanobiological performance of bone tissue scaffolds based on different unit cell geometries. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 83, 28-45.	3.1	49
34	Enhancing user engagement through the user centric design of a mid-air gesture-based interface for the navigation of virtual-tours in cultural heritage expositions. <i>Journal of Cultural Heritage</i> , 2018, 32, 186-197.	3.3	26
35	Rhombicuboctahedron unit cell based scaffolds for bone regeneration: geometry optimization with a mechanobiology –driven algorithm. <i>Materials Science and Engineering C</i> , 2018, 83, 51-66.	7.3	35
36	Evaluating the effectiveness of spatial augmented reality in smart manufacturing: a solution for manual working stations. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 509-521.	3.0	165

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37	Optimal Load for Bone Tissue Scaffolds with an Assigned Geometry. International Journal of Medical Sciences, 2018, 15, 16-22.	2.5	21
38	A Computational Approach to the Design of Scaffolds for Bone Tissue Engineering. Lecture Notes in Bioengineering, 2018, , 111-117.	0.4	4
39	Recent Advances in Endocrine, Metabolic and Immune Disorders: Mesenchymal Stem Cells (MSCs) and Engineered Scaffolds. Endocrine, Metabolic and Immune Disorders - Drug Targets, 2018, 18, 466-469.	1.2	41
40	Real time RULA assessment using Kinect v2 sensor. Applied Ergonomics, 2017, 65, 481-491.	3.1	140
41	Nanoindentation characterisation of human colorectal cancer cells considering cell geometry, surface roughness and hyperelastic constitutive behaviour. Nanotechnology, 2017, 28, 045703.	2.6	18
42	Experiencing the Sights, Smells, Sounds, and Climate of Southern Italy in VR. IEEE Computer Graphics and Applications, 2017, 37, 19-25.	1.2	21
43	Predicting Text Legibility over Textured Digital Backgrounds for a Monocular Optical See-Through Display. Presence: Teleoperators and Virtual Environments, 2017, 26, 1-15.	0.6	3
44	Supporting Remote Maintenance in Industry 4.0 through Augmented Reality. Procedia Manufacturing, 2017, 11, 1296-1302.	1.9	164
45	From Paper Manual to AR Manual: Do We Still Need Text?. Procedia Manufacturing, 2017, 11, 1303-1310.	1.9	13
46	A Comprehensive Method for Assessing the Blepharospasm Cases Severity. Communications in Computer and Information Science, 2017, , 369-381.	0.5	5
47	Geometry Design Optimization of Functionally Graded Scaffolds for Bone Tissue Engineering: A Mechanobiological Approach. PLoS ONE, 2016, 11, e0146935.	2.5	96
48	A Mechanobiology-based Algorithm to Optimize the Microstructure Geometry of Bone Tissue Scaffolds. International Journal of Biological Sciences, 2016, 12, 1-17.	6.4	91
49	Facial Landmarks for Forensic Skull-Based 3D Face Reconstruction: A Literature Review. Lecture Notes in Computer Science, 2016, , 172-180.	1.3	3
50	Design and Development of a Forearm Rehabilitation System Based on an Augmented Reality Serious Game. Communications in Computer and Information Science, 2016, , 127-136.	0.5	8
51	Magic Mirror Interface for Augmented Reality Maintenance. , 2016, , .		2
52	Natural interaction for online documentation in industrial maintenance. International Journal of Computer Aided Engineering and Technology, 2016, 8, 56.	0.2	10
53	A System to Exploit Thermographic Data Using Projected Augmented Reality. Lecture Notes in Computer Science, 2016, , 489-499.	1.3	2
54	An Optical System to Monitor the Displacement Field of Glass-fibre Posts Subjected to Thermal Loading. Open Dentistry Journal, 2016, 10, 610-618.	0.5	2

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55	Legibility in Industrial AR: Text Style, Color Coding, and Illuminance. IEEE Computer Graphics and Applications, 2015, 35, 52-61.	1.2	39
56	Text legibility for projected Augmented Reality on industrial workbenches. Computers in Industry, 2015, 70, 70-78.	9.9	37
57	A Multimodal System for Nonverbal Human Feature Recognition in Emotional Framework. , 2015, , .		0
58	Can Interactive Finite Element Analysis Improve the Learning of Mechanical Behavior of Materials? A Case Study. Computer-Aided Design and Applications, 2015, 12, 45-51.	0.6	3
59	Rigid Object Tracking Algorithms for Low-Cost AR Devices. , 2014, , .		2
60	Effect of Text Outline and Contrast Polarity on AR Text Readability in Industrial Lighting. IEEE Transactions on Visualization and Computer Graphics, 2014, 21, 1-1.	4.4	17
61	Text Readability in Head-Worn Displays: Color and Style Optimization in Video versus Optical See-Through Devices. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 125-139.	4.4	62
62	Augmented reality on large screen for interactive maintenance instructions. Computers in Industry, 2014, 65, 270-278.	9.9	158
63	Design review of CAD assemblies using bimanual natural interface. International Journal on Interactive Design and Manufacturing, 2013, 7, 249-260.	2.2	19
64	Augmented Reality Text Style Readability with See-Through Head-Mounted Displays in Industrial Context. Presence: Teleoperators and Virtual Environments, 2013, 22, 171-190.	0.6	31
65	Integration of Realtime Finite Element Analysis and Haptic Feedback for Hands-On Learning of the Mechanical Behavior of Materials. , 2013, , .		2
66	Asymmetry measurement for vibroactive correction in lower limbs mobility. Computer Science and Information Systems, 2013, 10, 1387-1406.	1.0	2
67	Early diagnosis of lung tumors by genetically optimized 3D-metaball malignancy metric. , 2012, , .		2
68	Augmented Technical Drawings: A Novel Technique for Natural Interactive Visualization of Computer-Aided Design Models. Journal of Computing and Information Science in Engineering, 2012, 12, .	2.7	17
69	A 3D virtual colonoscopy computer aided measurements: A new framework. , 2011, , .		3
70	Wearable rumble device for active asymmetry measurement and correction in lower limb mobility. , 2011, , .		4
71	Product Manufacturing Information Management in Interactive Augmented Technical Drawings. , 2011, , .		3
72	Distributed design review using tangible augmented technical drawings. CAD Computer Aided Design, 2010, 42, 364-372.	2.7	34

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73	Improving bi-manual 3D input in CAD modelling by part rotation optimisation. CAD Computer Aided Design, 2010, 42, 462-470.	2.7	9
74	Tangible Interfaces for Augmented Engineering Data Management. , 2010, , .		7
75	UNIFIED INTERACTIVE WAVELET APPROACH FOR 2D SKETCH SEGMENTATION AND EDITING. International Journal of Shape Modeling, 2010, 16, 39-56.	0.2	4
76	Tangible digital master for product lifecycle management in augmented reality. International Journal on Interactive Design and Manufacturing, 2009, 3, 121-129.	2.2	26
77	Enhanced 3D object snap for CAD modelling on large stereo displays. International Journal of Computer Applications in Technology, 2008, 33, 54.	0.5	5
78	VR Interaction for CAD Basic Tasks Using Rumble Feedback Input: Experimental Study. , 2008, , 337-352.		1
79	Tangible interfaces in virtual environments for industrial design. , 2004, , .		1