

Monica Carfagni

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

706
citations

567281

15
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580821

25
g-index

61
all docs

61
docs citations

61
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Performance of the Intel SR300 Depth Camera: Metrological and Critical Characterization. IEEE Sensors Journal, 2017, 17, 4508-4519.	4.7	73
2	Metrological and Critical Characterization of the Intel D415 Stereo Depth Camera. Sensors, 2019, 19, 489.	3.8	72
3	Reverse engineering modeling methods and tools: a survey. Computer-Aided Design and Applications, 2018, 15, 443-464.	0.6	65
4	Reverse engineering of mechanical parts: A template-based approach. Journal of Computational Design and Engineering, 2018, 5, 145-159.	3.1	36
5	From 2D to 2.5D i.e. from painting to tactile model. Graphical Models, 2014, 76, 706-723.	2.4	34
6	Design and Assessment of a Machine Vision System for Automatic Vehicle Wheel Alignment. International Journal of Advanced Robotic Systems, 2013, 10, 242.	2.1	31
7	A real-time machine-vision system for monitoring the textile raising process. Computers in Industry, 2005, 56, 831-842.	9.9	30
8	Artificial neural network software for real-time estimation of olive oil qualitative parameters during continuous extraction. Computers and Electronics in Agriculture, 2007, 55, 115-131.	7.7	26
9	Surgery of complex craniofacial defects: A single-step AM-based methodology. Computer Methods and Programs in Biomedicine, 2018, 165, 225-233.	4.7	24
10	Fast and Low Cost Acquisition and Reconstruction System for Human Hand-wrist-arm Anatomy. Procedia Manufacturing, 2017, 11, 1600-1608.	1.9	23
11	A Novel Objective Approach to the External Measurement of Pectus Excavatum Severity by Means of an Optical Device. Annals of Thoracic Surgery, 2018, 106, 221-227.	1.3	21
12	Design impact of acceptability and dependability in assisted living robotic applications. International Journal on Interactive Design and Manufacturing, 2018, 12, 1167-1178.	2.2	18
13	3D printing of cardiac structures from medical images: an overview of methods and interactive tools. International Journal on Interactive Design and Manufacturing, 2018, 12, 597-609.	2.2	17
14	Digital Bas-Relief Design: a Novel Shape from Shading-Based Method. Computer-Aided Design and Applications, 2014, 11, 153-164.	0.6	16
15	Tactile Representation of Paintings: An Early Assessment of Possible Computer Based Strategies. Lecture Notes in Computer Science, 2012, , 261-270.	1.3	15
16	Hippin: a semiautomatic computer program for selecting hip prosthesis femoral components. Computer Methods and Programs in Biomedicine, 2000, 63, 105-115.	4.7	13
17	A CAD Program for the Automated Checkout and Design of Belleville Springs. Journal of Mechanical Design, Transactions of the ASME, 2002, 124, 393-398.	2.9	13
18	Are We Ready to Build a System for Assisting Blind People in Tactile Exploration of Bas-Reliefs?. Sensors, 2016, 16, 1361.	3.8	13

#	ARTICLE	IF	CITATIONS
19	Customized Cutting Template to Assist Sternotomy in Pectus Arcuatum. <i>Annals of Thoracic Surgery</i> , 2019, 107, 1253-1258.	1.3	12
20	Towards a CAD-based automatic procedure for patient specific cutting guides to assist sternal osteotomies in pectus arcuatum surgical correction. <i>Journal of Computational Design and Engineering</i> , 2019, 6, 118-127.	3.1	11
21	Towards Automated and Objective Assessment of Fabric Pilling. <i>International Journal of Advanced Robotic Systems</i> , 2014, 11, 171.	2.1	9
22	LIFE+2010 QUADMAP Project: a new methodology to select, analyze and manage Quiet Urban Areas defined by the European Directive 2002/49/EC. <i>Noise Mapping</i> , 2016, 3, .	1.8	9
23	Usefulness of prototypes in conceptual design: studentsâ€™ view. <i>International Journal on Interactive Design and Manufacturing</i> , 2020, 14, 1305-1319.	2.2	9
24	Colour Mixing Modelling and Simulation: Optimization of Colour Recipe for Carded Fibres. <i>Modelling and Simulation in Engineering</i> , 2010, 2010, 1-9.	0.7	8
25	Recent strategies for 3D reconstruction using Reverse Engineering: a birdâ€™s eye view. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 841-850.	0.4	8
26	Model-based extraction of femoral medulla ducts from radiographic images. <i>Image and Vision Computing</i> , 2004, 22, 173-182.	4.5	7
27	Towards the Development of a Novel CNTs-Based Flexible Mild Heater for Art Conservation. <i>Nanomaterials and Nanotechnology</i> , 2014, 4, 8.	3.0	7
28	A semi-automatic computer-aided method for personalized Vacuum Bell design. <i>Computer-Aided Design and Applications</i> , 2018, 15, 247-255.	0.6	7
29	Comfort assessment of motorcycle saddles: a methodology based on virtual prototypes. <i>International Journal on Interactive Design and Manufacturing</i> , 2007, 1, 155-167.	2.2	6
30	A vane-motor automatic design procedure. <i>International Journal on Interactive Design and Manufacturing</i> , 2013, 7, 147-157.	2.2	6
31	Reverse Engineering of Mechanical Parts: A Brief Overview of Existing Approaches and Possible New Strategies. , 2016, , .		5
32	A Fast and Reliable Optical 3D Scanning System for Human Arm. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 268-273.	0.4	5
33	Volumetric interpolation of tomographic sequences for accurate 3D reconstruction of anatomical parts. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 194, 105525.	4.7	5
34	Using force signals to monitor mechanical systems. <i>Mechanical Systems and Signal Processing</i> , 1989, 3, 111-122.	8.0	4
35	LIFE+2008 HUSH project results: a new methodology and a new platform for implementing an integrated and harmonized noise Action Plan and proposals for updating Italian legislation and Environmental Noise Directive. <i>Noise Mapping</i> , 2016, 3, .	1.8	4
36	Simulation and design of active control systems for acoustic pulse noise. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 573-584.	2.2	4

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37	IMAT Project: From Innovative Nanotechnology to Best Practices in Art Conservation. Lecture Notes in Computer Science, 2012, , 784-792.	1.3	4
38	A computer-aided strategy for preoperative simulation of autologous ear reconstruction procedure. International Journal on Interactive Design and Manufacturing, 2021, 15, 77-80.	2.2	3
39	A Preliminary 3D Depth Camera-Based System to Assist Home Physiotherapy Rehabilitation. Lecture Notes in Mechanical Engineering, 2020, , 696-706.	0.4	3
40	3D-Printed Patient-Specific Casts for the Distal Radius in Children: Outcome and Pre-Market Survey. Materials, 2022, 15, 2863.	2.9	3
41	A New Methodology for Computer Aided Design of Fine Porcelain Whiteware. , 2008, , .		2
42	Different Strategies for Rapid Prototyping of Digital Bas-Reliefs. Applied Mechanics and Materials, 2014, 510, 163-167.	0.2	2
43	Reverse engineering by CAD template fitting: study of a fast and robust template-fitting strategy. Engineering With Computers, 2021, 37, 2803-2821.	6.1	2
44	Home physiotherapy rehabilitation based on RGB-D sensors: a hybrid approach to the joints angular range of motion estimation. International Journal on Interactive Design and Manufacturing, 2021, 15, 99-102.	2.2	2
45	Automatic CAD Modeling of Ventilation Holes for 3D Printed Wrist Orthoses. Computer-Aided Design and Applications, 2019, 17, 325-336.	0.6	2
46	Preliminary Study of a High-Fidelity Simulator for the Management of Paediatric Tracheal Pathologies. Lecture Notes in Mechanical Engineering, 2022, , 773-784.	0.4	2
47	Application of wave field synthesis to active control of highly non-stationary noise. Applied Acoustics, 2018, 131, 220-229.	3.3	1
48	Design of Active Noise Control Systems for Pulse Noise. Lecture Notes in Mechanical Engineering, 2017, , 621-630.	0.4	1
49	Analysis of Possible Algorithms for Active Noise Control of Siren Noise into an Ambulance. Lecture Notes in Mechanical Engineering, 2022, , 630-640.	0.4	1
50	Case Report: Three-Dimensional Printing Model for Surgical Planning of Left Ventricular Aneurysm: Evolution Toward Tailoring Surgery. Frontiers in Cardiovascular Medicine, 2022, 9, 852682.	2.4	1
51	Carded Tow Real-Time Color Assessment: A Spectral Camera-Based System. Sensors, 2016, 16, 1404.	3.8	0
52	Active noise control for pulse signals by wave field synthesis. , 2016, , .		0
53	Original strategy for avoiding over-smoothing in SFS problem resolution. International Journal of Computational Vision and Robotics, 2018, 8, 58.	0.3	0
54	CAD-based automatic modelling of customized cutting templates for Pectus Arcuatum surgical correction. , 2020, 2020, 6044-6048.		0

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55	Application of carbon nanotubesâ€‘based coating in the field of art conservation: the IMAT project and the development of new mild heat transfer technology. , 2021, , 81-133.		0
56	Shift-Compensated Volumetric Interpolation of Tomographic Sequences for Accurate 3D Reconstruction. IFMBE Proceedings, 2020, , 312-321.	0.3	0
57	CAD Reconstruction: A Study on Reverse Modelling Strategies. Lecture Notes in Mechanical Engineering, 2020, , 165-176.	0.4	0
58	Recent Findings About the Novelty Metric of Shah. Lecture Notes in Mechanical Engineering, 2022, , 705-711.	0.4	0
59	A Rapid Prototyping Strategy for Manufacturing of Personalized Bolus. Lecture Notes in Mechanical Engineering, 2022, , 209-219.	0.4	0