

Antonio Lanzotti

List of Publications by Year in descending order

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119
papers

1,949
citations

257357

24
h-index

302012

39
g-index

124
all docs

124
docs citations

124
times ranked

1814
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary Requirements of a Soft Upper-Limb Exoskeleton for Industrial Overhead Tasks Based on Biomechanical Analysis. Lecture Notes in Networks and Systems, 2022, , 317-324.	0.5	3
2	A Preliminary Analysis of the Effects of Process Parameters on the Impact Resistance of 3D Printed PETG and HIPS. Lecture Notes in Mechanical Engineering, 2022, , 524-534.	0.3	0
3	Towards the Upscaling of Biomanufacturing Process Enhanced by Human-Robot Collaboration. Lecture Notes in Mechanical Engineering, 2022, , 615-622.	0.3	2
4	Requirements Engineering in Complex Systems Design. Lecture Notes in Mechanical Engineering, 2022, , 658-667.	0.3	3
5	Design of Wearables for Biosignal Acquisition: A User Centered Approach for Concept Generation and Selection. Lecture Notes in Mechanical Engineering, 2022, , 818-826.	0.3	2
6	Influence of Framework Material and Posterior Implant Angulation in Full-Arch All-on-4 Implant-Supported Prosthesis Stress Concentration. Dentistry Journal, 2022, 10, 12.	0.9	23
7	Biomechanical analysis of the upper body during overhead industrial tasks using electromyography and motion capture integrated with digital human models. International Journal on Interactive Design and Manufacturing, 2022, 16, 733-752.	1.3	10
8	The use of different adhesive filling material and mass combinations to restore class II cavities under loading and shrinkage effects: a 3D-FEA. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 485-495.	0.9	27
9	A model-based approach for the analysis of aircraft seating comfort. Work, 2021, 68, S251-S255.	0.6	5
10	User-centered approach for design and development of industrial workplace. International Journal on Interactive Design and Manufacturing, 2021, 15, 121-123.	1.3	4
11	A graph-based approach and an interactive tool for preliminary digital prototyping. International Journal on Interactive Design and Manufacturing, 2021, 15, 125-127.	1.3	0
12	Towards innovative road cycle gloves for low vibration transmission. International Journal on Interactive Design and Manufacturing, 2021, 15, 155-158.	1.3	1
13	Effect of Shrinking and No Shrinking Dentine and Enamel Replacing Materials in Posterior Restoration: A 3D-FEA Study. Applied Sciences (Switzerland), 2021, 11, 2215.	1.3	31
14	The role of cortical zone level and prosthetic platform angle in dental implant mechanical response: A 3D finite element analysis. Dental Materials, 2021, 37, 1688-1697.	1.6	27
15	Functional or Nonfunctional Cusps Preservation for Molars Restored with Indirect Composite or Glass-Ceramic Onlays: 3D FEA Study. Polymers, 2021, 13, 3831.	2.0	2
16	Loading stress distribution in posterior teeth restored by different core materials under fixed zirconia partial denture: A 3D-FEA study. American Journal of Dentistry, 2021, 34, 157-162.	0.1	1
17	Collaborative Workplace Design: A Knowledge-Based Approach to Promote Human-Robot Collaboration and Multi-Objective Layout Optimization. Applied Sciences (Switzerland), 2021, 11, 12147.	1.3	11
18	Interactive tools for safety 4.0: virtual ergonomics and serious games in real working contexts. Ergonomics, 2020, 63, 324-333.	1.1	19

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19	Development of site-specific biomechanical indices for estimating injury risk in cycling. , 2020, , .		1
20	Validation of a novel wearable solution for measuring L5/S1 load during manual material handling tasks. , 2020, , .		9
21	Understanding the Effect of Gloves on Hand-Arm Vibrations in Road Cycling. Proceedings (mdpi), 2020, 49, 70.	0.2	1
22	The IART System for Race Walking: Experience with World-Class Olympic Race Walkers. Proceedings (mdpi), 2020, 49, .	0.2	0
23	Comparison among different inertial-based algorithms for the automatic detection of temporal events in sprint tests: a preliminary study on elite athletes with intellectual impairment. , 2020, , .		1
24	Biomechanical indices represented on radar chart for assessment of performance and infringements in elite race-walkers. Sports Engineering, 2020, 23, 1.	0.5	15
25	Understanding the Human Motor Control for User-Centered Design of Custom Wearable Systems: Case Studies in Sports, Industry, Rehabilitation. Lecture Notes in Mechanical Engineering, 2020, , 753-764.	0.3	12
26	Iterative and Participative Axiomatic Design Process to Improve Conceptual Design of Large-Scale Engineering Systems. Lecture Notes in Mechanical Engineering, 2020, , 492-505.	0.3	1
27	Mechanics-Based Virtual Prototyping of Robots with Deformable Bodies and Flexible Joints. Lecture Notes in Mechanical Engineering, 2020, , 444-457.	0.3	0
28	Optimization Design Strategy for Additive Manufacturing Process to Develop 3D Magnetic Nanocomposite Scaffolds. Lecture Notes in Mechanical Engineering, 2020, , 948-958.	0.3	0
29	A new approach to the anthropocentric design of human-robot collaborative environments. Acta IMEKO (2012), 2020, 9, 80.	0.4	9
30	A wearable inertial device based on biomechanical parameters for sports performance analysis in race-walking: preliminary results. , 2019, , .		8
31	Evaluation of human joint angles in industrial tasks using OpenSim. , 2019, , .		10
32	An autonomous and self-locating handling device for reverse engineering systems. , 2019, , .		1
33	Biomechanical-based torque reconstruction of the human shoulder joint in industrial tasks. , 2019, , .		3
34	â€Federicaâ€™s MOOCâ€™ (Massive Open Online Course): a blended course in engineering drawing at Federico II. International Journal on Interactive Design and Manufacturing, 2019, 13, 1115-1128.	1.3	4
35	Adhesive class I restorations in sound molar teeth incorporating combined resin-composite and glass ionomer materials: CAD-FE modeling and analysis. Dental Materials, 2019, 35, 1514-1522.	1.6	41
36	The anthropometric basis for the designing of collaborative workplaces. , 2019, , .		8

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37	Assessment of upper limb muscle synergies for industrial overhead tasks: a preliminary study. , 2019, , .		15
38	Towards Adaptive Switches through implementation of visual feedback in assistive devices. , 2019, , .		0
39	A comparison between mechanical properties of specimens 3D printed with virgin and recycled PLA. Procedia CIRP, 2019, 79, 143-146.	1.0	94
40	Robust interactive design for ergonomics and safety: R-IDEaS procedure and applications. International Journal on Interactive Design and Manufacturing, 2019, 13, 1259-1268.	1.3	5
41	Using the KUKA LBR iiwa Robot as Haptic Device for Virtual Reality Training of Hip Replacement Surgery. , 2019, , .		10
42	Functional analyses to assess the effect of the curing process on the properties of light activated composites. Production Engineering, 2019, 13, 239-246.	1.1	1
43	Design and analysis of comparative experiments to assess the (dis-)comfort of aircraft seating. Applied Ergonomics, 2019, 76, 155-163.	1.7	11
44	Interactive Tools for Safety 4.0: Virtual Ergonomics and Serious Games in Tower Automotive. Advances in Intelligent Systems and Computing, 2019, , 270-280.	0.5	5
45	Multi-wave light technology enabling closed-loop in-process quality control for automotive battery assembly with remote laser welding. , 2019, , .		5
46	Mechanical behavior of Class I cavities restored by different material combinations under loading and polymerization shrinkage stress. A 3D-FEA study. American Journal of Dentistry, 2019, 32, 55-60.	0.1	10
47	FE analysis of conceptual hybrid composite endodontic post designs in anterior teeth. Dental Materials, 2018, 34, 1063-1071.	1.6	33
48	Experimental study on hydrodynamic performances of naval propellers to adopt new additive manufacturing processes. International Journal on Interactive Design and Manufacturing, 2018, 12, 1-14.	1.3	26
49	Combining ESPI with laser scanning for 3D characterization of racing tyres sections. Optics and Lasers in Engineering, 2018, 104, 71-77.	2.0	26
50	Controlling form errors in 3D printed models associated to size and position on the working plane. International Journal on Interactive Design and Manufacturing, 2018, 12, 969-977.	1.3	12
51	A graph-based method and a software tool for interactive tolerance specification. Procedia CIRP, 2018, 75, 173-178.	1.0	7
52	Design of Additively Manufactured Lattice Structures for Tissue Regeneration. Materials Science Forum, 2018, 941, 2154-2159.	0.3	3
53	Low-Velocity Impacts on a Polymeric Foam for the Passive Safety Improvement of Sports Fields: Meshless Approach and Experimental Validation. Applied Sciences (Switzerland), 2018, 8, 1174.	1.3	9
54	User-centered design of an innovative foot stretcher for ergometers to enhance the indoor rowing training. International Journal on Interactive Design and Manufacturing, 2018, 12, 1211-1221.	1.3	14

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55	A new interactive design approach for concept selection based on expert opinion. International Journal on Interactive Design and Manufacturing, 2018, 12, 1189-1199.	1.3	26
56	On the usability of augmented reality devices for interactive risk assessment. International Journal of Safety and Security Engineering, 2018, 8, 132-138.	0.5	6
57	A NEW INTERACTIVE RAILWAY VIRTUAL SIMULATOR FOR TESTING PREVENTIVE SAFETY. WIT Transactions on the Built Environment, 2018, , .	0.0	3
58	On the usability assessment of the graphical user interface related to a digital pattern software tool. International Journal on Interactive Design and Manufacturing, 2017, 11, 457-469.	1.3	17
59	Mechanical behavior of bulk direct composite versus block composite and lithium disilicate indirect Class II restorations by CAD-FEM modeling. Dental Materials, 2017, 33, 690-701.	1.6	63
60	The effects of cavity-margin-angles and bolus stiffness on the mechanical behavior of indirect resin composite class II restorations. Dental Materials, 2017, 33, e39-e47.	1.6	43
61	Task-based Motion Control of Digital Humans for Industrial Applications. Procedia CIRP, 2017, 62, 535-540.	1.0	8
62	Mechanical behavior of endodontically restored canine teeth: Effects of ferrule, post material and shape. Dental Materials, 2017, 33, 1466-1472.	1.6	46
63	CAD-FE modeling and analysis of class II restorations incorporating resin-composite, glass ionomer and glass ceramic materials. Dental Materials, 2017, 33, 1456-1465.	1.6	56
64	Towards a new monitoring system to detect illegal steps in race-walking. International Journal on Interactive Design and Manufacturing, 2017, 11, 317-329.	1.3	17
65	Flatness, circularity and cylindricity errors in 3D printed models associated to size and position on the working plane. Lecture Notes in Mechanical Engineering, 2017, , 201-212.	0.3	8
66	Window shape effect in a single bowden power window system. , 2017, , .		2
67	Tensile Properties Characterization of AlSi10Mg Parts Produced by Direct Metal Laser Sintering via Nested Effects Modeling. Materials, 2017, 10, 144.	1.3	26
68	A Digital Pattern Approach to 3D CAD Modelling of Automotive Car Door Assembly by Using Directed Graphs. Mechanisms and Machine Science, 2017, , 175-185.	0.3	4
69	Robust Ergonomic Optimization of Car Packaging in Virtual Environment. Lecture Notes in Mechanical Engineering, 2017, , 1177-1186.	0.3	4
70	Outdoor Tests for the Validation of an Inertial System Able to Detect Illegal Steps in Race-walking. Procedia Engineering, 2016, 147, 544-549.	1.2	12
71	Video-Analysis of Player's Kinematics in Running out of Boundaries in Association Football Fields. Procedia Engineering, 2016, 147, 234-239.	1.2	1
72	Development of a New Experimental Protocol for Analysing the Race-walking Technique Based on Kinematic and Dynamic Parameters. Procedia Engineering, 2016, 147, 741-746.	1.2	15

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73	Design and Analysis of 3D Customized Models of a Human Mandible. <i>Procedia CIRP</i> , 2016, 49, 199-202.	1.0	24
74	Automotive power window system design: object-oriented modelling and design of experiments integration within a digital pattern approach. <i>Mechanics and Industry</i> , 2016, 17, 505.	0.5	7
75	Contribution to risk assessment in football by video analysis of overstepping boundary line events. <i>Sports Engineering</i> , 2016, 19, 129-137.	0.5	5
76	On the influence of scanning factors on the laser scanner-based 3D inspection process. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 1787-1799.	1.5	68
77	Improving the Robustness of Mechatronic Systems. , 2016, , 113-128.		2
78	Object-oriented model validation for single bowden power window system development. , 2015, , .		1
79	Collaborative Environments, Knowledge Creation and Knowledge Reuse for Railway Industries. , 2015, , .		0
80	Concept Design, Virtual Prototyping and Ergonomic Analysis of an Innovative Skidding Winch Using a DES-TRIZ Approach. , 2015, , .		0
81	Simulation of forest harvesting alternative processes and concept design of an innovative skidding winch focused on productivity improvement. <i>Türk Tarım Ve Ormancılık Dergisi/Turkish Journal of Agriculture and Forestry</i> , 2015, 39, 350-359.	0.8	4
82	Towards the integration of thermal physics and geometrical constraints for a 3D-multiphysical sketcher. , 2015, , .		5
83	On the Geometric Accuracy of RepRap Open-Source Three-Dimensional Printer. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015, 137, .	1.7	23
84	The impact of process parameters on mechanical properties of parts fabricated in PLA with an open-source 3-D printer. <i>Rapid Prototyping Journal</i> , 2015, 21, 604-617.	1.6	419
85	Understanding Process Parameter Effects of RepRap Open-Source Three-Dimensional Printers Through a Design of Experiments Approach. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	1.3	48
86	Concept design of the DEMO divertor cassette-to-vacuum vessel locking system adopting a systems engineering approach. <i>Fusion Engineering and Design</i> , 2015, 94, 72-81.	1.0	17
87	Iterative and Participative Axiomatic Design Process in complex mechanical assemblies: case study on fusion engineering. <i>International Journal on Interactive Design and Manufacturing</i> , 2015, 9, 325-338.	1.3	18
88	Innovative design for FAST divertor compatible with remote handling, electromagnetic and mechanical analyses. <i>Fusion Engineering and Design</i> , 2015, 98-99, 1465-1469.	1.0	3
89	Design Progress of the DEMO Divertor Locking System According to IPADeP Methodology. <i>Procedia CIRP</i> , 2015, 34, 56-63.	1.0	16
90	Virtual production planning of a high-speed train using a discrete event simulation based approach. <i>International Journal on Interactive Design and Manufacturing</i> , 2015, 9, 65-75.	1.3	7

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91	An interactive design approach for nuclear fusion purposes: remote handling system for FAST divertor. International Journal on Interactive Design and Manufacturing, 2014, 8, 55-65.	1.3	9
92	Modelling Head Impact Safety Performance of Polymer-based Foam Protective Devices. Procedia Engineering, 2014, 72, 581-586.	1.2	6
93	Design and development of an automotive magnetorheological semi-active differential. Mechatronics, 2014, 24, 426-435.	2.0	10
94	Automatic evaluation of variational parameters for tolerance analysis of rigid parts based on graphs. International Journal on Interactive Design and Manufacturing, 2013, 7, 239-248.	1.3	14
95	Improving design validation of playground equipment in virtual reality. International Journal on Interactive Design and Manufacturing, 2013, 7, 191-201.	1.3	2
96	A virtual reality approach for usability assessment: case study on a wheelchair-mounted robot manipulator. Engineering With Computers, 2013, 29, 359-373.	3.5	39
97	Improving concept design of divertor support system for FAST tokamak using TRIZ theory and AHP approach. Fusion Engineering and Design, 2013, 88, 3014-3020.	1.0	26
98	Concept design of divertor remote handling system for the FAST machine. Fusion Engineering and Design, 2013, 88, 2052-2056.	1.0	12
99	Improving comfort of shoe sole through experiments based on CAD-FEM modeling. Medical Engineering and Physics, 2013, 35, 36-46.	0.8	26
100	Concept design in virtual reality of a forestry trailer using a QFD-TRIZ based approach. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2013, 37, 789-801.	0.8	16
101	A Functional Approach to Optimal Dimensioning of Automotive Transmission Shafts. , 2012, , .		1
102	Improving Quality of Train Interiors Through a VR-Based Participative Design Approach. , 2012, , .		0
103	A Top-Down Approach for Virtual Redesign and Ergonomic Optimization of an Agricultural Tractor's Driver Cab. , 2012, , .		4
104	Improving MTM-UAS to predetermine automotive maintenance times. International Journal on Interactive Design and Manufacturing, 2012, 6, 265-273.	1.3	28
105	Virtual environments and prototyping for human health and safety. , 2011, , 103-112.		0
106	Wind speed parameter estimation from one-month sample via Bayesian approach. Quality and Reliability Engineering International, 2010, 26, 853-862.	1.4	5
107	Virtual concepts and experiments to improve quality of train interiors. International Journal on Interactive Design and Manufacturing, 2009, 3, 65-79.	1.3	19
108	Designing in VR. International Journal on Interactive Design and Manufacturing, 2009, 3, 51-53.	1.3	25

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109	Statistical Design for Innovation in Virtual Reality. , 2009, , 27-41.		1
110	Robust Ergonomic Virtual Design. , 2009, , 43-64.		3
111	Robust design of car packaging in virtual environment. International Journal on Interactive Design and Manufacturing, 2008, 2, 39-46.	1.3	13
112	Kanseiengineering approach for total quality design and continuous innovation. TQM Journal, 2008, 20, 324-337.	2.1	38
113	An Efficient and Easy Discretizing Method for the Treatment of Noise Factors in Robust Design. Asian Journal on Quality, 2007, 8, 188-197.	0.5	5
114	Concept design for quality in virtual environment. Computers and Graphics, 2006, 30, 1011-1019.	1.4	29
115	Beyond robust design: an example of synergy between statistics and advanced engineering design. Asian Journal on Quality, 2002, 3, 13-28.	0.5	0
116	Developing a Graphical Interface for Pre-Posterior Bayesian Analysis. Contributions To Statistics, 1997, , 135-147.	0.2	0
117	Some tools to control the technological innovation process. , 1995, , 412-415.		2
118	A Statistical Approach to Simulate Instances of Archeological Findings Fragments. Journal of Automation, Mobile Robotics and Intelligent Systems, 0, , 46-64.	0.4	0
119	A Digital Pattern Methodology supporting Railway Industries in Portfolio Management. , 0, , .		0