

Luigi Galantucci

List of Publications by Year in descending order

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71
papers

1,672
citations

331670

21
h-index

315739

38
g-index

72
all docs

72
docs citations

72
times ranked

1415
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical vapor treatment to improve surface finish of 3D printed polylactic acid (PLA) parts realized by fused filament fabrication. <i>Progress in Additive Manufacturing</i> , 2022, 7, 65-75.	4.8	29
2	High resolution-optical tomography for in-process layerwise monitoring of a laser-powder bed fusion technology. <i>Additive Manufacturing</i> , 2022, 55, 102850.	3.0	7
3	Technological scouting of bi-material face masks: experimental analysis on real faces. <i>Procedia CIRP</i> , 2022, 110, 354-359.	1.9	1
4	Technological scouting of bi-material face masks: simulation of adherence using 3D Facial Norms. <i>Procedia CIRP</i> , 2022, 110, 259-264.	1.9	3
5	Use of Miniature Step Gauges to Assess the Performance of 3D Optical Scanners and to Evaluate the Accuracy of a Novel Additive Manufacture Process. <i>Sensors</i> , 2020, 20, 738.	3.8	8
6	Artefacts Used for Testing 3D Optical-Based Scanners. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 173-189.	0.4	1
7	Additive Manufacturing: New Trends in the 4th Industrial Revolution. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 153-169.	0.4	33
8	A comprehensive study of PLA material relationships for fused filament fabricated part performances. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
9	Measuring techniques suitable for verification and repairing of industrial components: A comparison among optical systems. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2019, 27, 114-123.	4.5	18
10	Reliability of a Virtual Prosthodontic Project Realized through a 2D and 3D Photographic Acquisition: An Experimental Study on the Accuracy of Different Digital Systems. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 5139.	2.6	56
11	Photogrammetric measurements of 3D printed microfluidic devices. <i>Additive Manufacturing</i> , 2018, 21, 53-62.	3.0	20
12	Performance verification of a photogrammetric scanning system for micro-parts using a three-dimensional artifact: adjustment and calibration. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 4267-4279.	3.0	21
13	Preliminary study for a full colour low cost open source 3D printer, based on the combination of fused deposition modelling (FDM) or fused filament fabrication (FFF) and inkjet printing. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 979-993.	2.2	12
14	Computer Numerical Controlled Grinding and Physical Vapor Deposition for Fused Deposition Modelled Workpieces. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-7.	1.8	14
15	Photogrammetry Applied to Small and Micro Scaled Objects: A Review. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 57-77.	0.4	13
16	Experimental investigation on camera calibration for 3D photogrammetric scanning of micro-features for micrometric resolution. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2935-2947.	3.0	16
17	Application of off-the-shelf stereo-cameras for the 3D assessment of morphometric variations caused by rhinoplasty. <i>Journal of Medical Engineering and Technology</i> , 2017, 41, 186-199.	1.4	3
18	Non-contact Reverse Engineering Modeling for Additive Manufacturing of Down Scaled Cultural Artefacts. <i>Procedia CIRP</i> , 2017, 62, 481-486.	1.9	20

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19	The influence of software algorithms on photogrammetric micro-feature measurement's uncertainty. International Journal of Advanced Manufacturing Technology, 2017, 93, 3991-4005.	3.0	14
20	A 12-camera body scanning system based on close-range photogrammetry for precise applications. Virtual and Physical Prototyping, 2016, 11, 49-56.	10.4	10
21	Three-Dimensional Anthropometric Database of Attractive Caucasian Women. Journal of Craniofacial Surgery, 2016, 27, 1884-1895.	0.7	12
22	A powerful scanning methodology for 3D measurements of small parts with complex surfaces and sub millimeter-sized features, based on close range photogrammetry. Precision Engineering, 2016, 43, 211-219.	3.4	35
23	A Low-cost Multi Camera 3D Scanning System for Quality Measurement of Non-static Subjects. Procedia CIRP, 2015, 28, 88-93.	1.9	19
24	Semi-automatic Low Cost 3D Laser Scanning Systems for Reverse Engineering. Procedia CIRP, 2015, 28, 94-99.	1.9	13
25	A stereo photogrammetry scanning methodology, for precise and accurate 3D digitization of small parts with sub-millimeter sized features. CIRP Annals - Manufacturing Technology, 2015, 64, 507-510.	3.6	29
26	Analysis of Dimensional Performance for a 3D Open-source Printer Based on Fused Deposition Modeling Technique. Procedia CIRP, 2015, 28, 82-87.	1.9	79
27	Is principal component analysis an effective tool to predict face attractiveness? A contribution based on real 3D faces of highly selected attractive women, scanned with stereophotogrammetry. Medical and Biological Engineering and Computing, 2014, 52, 475-489.	2.8	20
28	New method to calibrate and validate a high-resolution 3D scanner, based on photogrammetry. Precision Engineering, 2014, 38, 279-291.	3.4	24
29	Three-dimensional methodology for photogrammetric acquisition of the soft tissues of the face: a new clinical-instrumental protocol. Progress in Orthodontics, 2013, 14, 32.	3.5	35
30	A New Three-Dimensional Photogrammetric Face Scanner for the Morpho-Biometric 3D Feature Extraction Applied to a Massive Field Analysis of Italian Attractive Women. Procedia CIRP, 2013, 5, 259-264.	1.9	5
31	Multistack Close Range Photogrammetry for Low Cost Submillimeter Metrology. Journal of Computing and Information Science in Engineering, 2013, 13, .	2.7	13
32	Noninvasive Computerized Scanning Method for the Correlation Between the Facial Soft and Hard Tissues for an Integrated Three-Dimensional Anthropometry and Cephalometry. Journal of Craniofacial Surgery, 2013, 24, 797-804.	0.7	18
33	Direct Digital Manufacturing of ABS parts: an Experimental Study on Effectiveness of Proprietary Software for Shrinkage Compensation. International Journal of Digital Content Technology and Its Applications, 2012, 6, 546-555.	0.1	9
34	New 3D Digitizer for Human Faces Based on Digital Close Range Photogrammetry: Application to Face Symmetry Analysis. International Journal of Digital Content Technology and Its Applications, 2012, 6, 703-713.	0.1	1
35	Accurate Facial Morphologic Measurements Using a 3-Camera Photogrammetric Method. Journal of Craniofacial Surgery, 2011, 22, 54-59.	0.7	18
36	Validation of a High-Resolution 3D Face Scanner Based on Stereophotogrammetry. , 2011, , .		2

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37	Automated Landmark Extraction for Orthodontic Measurement of Faces Using the 3-Camera Photogrammetry Methodology. <i>Journal of Craniofacial Surgery</i> , 2010, 21, 87-93.	0.7	29
38	Quantitative analysis of a chemical treatment to reduce roughness of parts fabricated using fused deposition modeling. <i>CIRP Annals - Manufacturing Technology</i> , 2010, 59, 247-250.	3.6	172
39	New challenges for reverse engineering in facial treatments: How can the new 3D non-invasive surface measures support diagnoses and cures?. <i>Virtual and Physical Prototyping</i> , 2010, 5, 3-12.	10.4	11
40	3D Face Measurement and Scanning Using Digital Close Range Photogrammetry: Evaluation of Different Solutions and Experimental Approaches. , 2010, , .		2
41	Experimental study aiming to enhance the surface finish of fused deposition modeled parts. <i>CIRP Annals - Manufacturing Technology</i> , 2009, 58, 189-192.	3.6	314
42	Low Cost 3D Face Scanning Based on Landmarks and Photogrammetry. <i>Lecture Notes in Electrical Engineering</i> , 2009, , 93-106.	0.4	2
43	Study of compression properties of topologically optimized FDM made structured parts. <i>CIRP Annals - Manufacturing Technology</i> , 2008, 57, 243-246.	3.6	77
44	A volumetric approach for STL generation from 3D scanned products. <i>Journal of Materials Processing Technology</i> , 2008, 204, 403-411.	6.3	6
45	Coded targets and hybrid grids for photogrammetric 3D digitisation of human faces. <i>Virtual and Physical Prototyping</i> , 2008, 3, 167-176.	10.4	21
46	Local genetic slicing of point clouds for rapid prototyping. <i>Rapid Prototyping Journal</i> , 2008, 14, 161-166.	3.2	12
47	Reverse engineering techniques applied to a human skull, for CAD 3D reconstruction and physical replication by rapid prototyping. <i>Journal of Medical Engineering and Technology</i> , 2006, 30, 102-111.	1.4	32
48	Digital Photogrammetry for Facial Recognition. <i>Journal of Computing and Information Science in Engineering</i> , 2006, 6, 390-396.	2.7	24
49	A Multilevel Approach to Edge Detection in Tessellated Point Clouds. <i>CIRP Annals - Manufacturing Technology</i> , 2005, 54, 127-130.	3.6	5
50	Pseudo-fuzzy discrete-event simulation for on-line production control. <i>Computers and Industrial Engineering</i> , 2005, 49, 266-286.	6.3	14
51	An artificial intelligence approach to registration of free-form shapes. <i>CIRP Annals - Manufacturing Technology</i> , 2004, 53, 139-142.	3.6	18
52	A hybrid approach to the single line scheduling problem with multiple products and sequence-dependent time. <i>Computers and Industrial Engineering</i> , 2003, 45, 573-583.	6.3	11
53	Evaluation of filling conditions of injection moulding by integrating numerical simulations and experimental tests. <i>Journal of Materials Processing Technology</i> , 2003, 141, 266-275.	6.3	26
54	Telemanufacturing of reverse engineered parts: A case study. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2003, 217, 727-731.	2.4	1

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55	Evaluation of rapid prototypes obtained from reverse engineering. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, 217, 1543-1552.	2.4	7
56	A Quality Evaluation Method for Laser Welding of Al Alloys Through Neural Networks. CIRP Annals - Manufacturing Technology, 2000, 49, 131-134.	3.6	16
57	Predicting The Wear Resistance Of Wc-Co Coatings Using Neural Networks. International Journal of Modelling and Simulation, 1999, 19, 410-417.	3.3	5
58	Design of process parameters for dual phase steel production with strip rolling using the finite-element method. Journal of Materials Processing Technology, 1999, 92-93, 486-493.	6.3	24
59	Thermo-mechanical simulation of a rolling process with an FEM approach. Journal of Materials Processing Technology, 1999, 92-93, 494-501.	6.3	68
60	An Experimental and Numerical Study on the Influence of Not Uniform Beam Energy Distribution in Laser Steel Hardening. CIRP Annals - Manufacturing Technology, 1999, 48, 155-158.	3.6	5
61	Excimer Laser Cutting: Experimental Characterization and 3D Numerical Modelling for Polyester Resins. CIRP Annals - Manufacturing Technology, 1998, 47, 141-144.	3.6	28
62	A computer-aided approach for the simulation of the directional-solidification process for gas turbine blades. Journal of Materials Processing Technology, 1998, 77, 160-165.	6.3	17
63	A progress report on the development of the CsI-RICH detector for the ALICE experiment at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 385-389.	1.6	1
64	Design of object-oriented database for the definition of machining operation sequences of 3D workpieces. Computers and Industrial Engineering, 1998, 34, 257-279.	6.3	7
65	Surface treatment for adhesive-bonded joints by excimer laser. Composites Part A: Applied Science and Manufacturing, 1996, 27, 1041-1049.	7.6	35
66	Evaluation of the deflections in the radiator vessel of the ALICE RICH array using numerical methods. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 371, 271-274.	1.6	0
67	Design of a large area fast RICH detector with CsI photocathode for particle identification at ALICE-LHC. Nuclear Physics, Section B, Proceedings Supplements, 1995, 44, 261-267.	0.4	0
68	An Expert System for Reliable Tool-Replacement Policies in Metal Cutting. Journal of Engineering for Industry, 1994, 116, 405-407.	0.8	5
69	Computer-aided design for flash welds. Welding International, 1994, 8, 195-204.	0.7	0
70	An experimental study on laser drilling and cutting of composite materials for the aerospace industry using excimer and CO2 sources. Composites Manufacturing, 1992, 3, 14-19.	0.2	41
71	A parametric FEM analysis of extrusion using a personal computer. Journal of Materials Processing Technology, 1992, 31, 335-345.	6.3	3