Luigi Galantucci

List of Publications by Year
in descending order

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	Experimental study aiming to enhance the surface finish of fused deposition modeled parts. CIRP Annals - Manufacturing Technology, 2009, 58, 189-192.	3.6	314
2	Quantitative analysis of a chemical treatment to reduce roughness of parts fabricated using fused deposition modeling. CIRP Annals - Manufacturing Technology, 2010, 59, 247-250.	3.6	172
3	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
4	Study of compression properties of topologically optimized FDM made structured parts. CIRP Annals - Manufacturing Technology, 2008, 57, 243-246.	3.6	77
5	Thermo-mechanical simulation of a rolling process with an FEM approach. Journal of Materials Processing Technology, 1999, 92-93, 494-501.	6.3	68
6	Reliability of a Virtual Prosthodontic Project Realized through a 2D and 3D Photographic Acquisition: An Experimental Study on the Accuracy of Different Digital Systems. International Journal of Environmental Research and Public Health, 2019, 16, 5139.	2.6	56
7	An experimental study on laser drilling and cutting of composite materials for the aerospace industry using excimer and CO_2 sources. Composites Manufacturing, 1992, 3, 14-19.	0.2	41
8	Surface treatment for adhesive-bonded joints by excimer laser. Composites Part A: Applied Science and Manufacturing, 1996, 27, 1041-1049.	7.6	35
9	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
10	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
11	Additive Manufacturing: New Trends in the 4th Industrial Revolution. Lecture Notes in Mechanical Engineering, 2019, , 153-169.	0.4	33
12	Reverse engineering techniques applied to a human skull, for CAD 3D reconstruction and physical replication by rapid prototyping. Journal of Medical Engineering and Technology, 2006, 30, 102-111.	1.4	32
13	Automated Landmark Extraction for Orthodontic Measurement of Faces Using the 3-Camera Photogrammetry Methodology. Journal of Craniofacial Surgery, 2010, 21, 87-93.	0.7	29
14	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
15	Chemical vapor treatment to improve surface finish of 3D printed polylactic acid (PLA) parts realized by fused filament fabrication. Progress in Additive Manufacturing, 2022, 7, 65-75.	4.8	29
16	Excimer Laser Cutting: Experimental Characterization and 3D Numerical Modelling for Polyester Resins. CIRP Annals - Manufacturing Technology, 1998, 47, 141-144.	3.6	28
17	Evaluation of filling conditions of injection moulding by integrating numerical simulations and experimental tests. Journal of Materials Processing Technology, 2003, 141, 266-275.	6.3	26
18	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

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19	Digital Photogrammetry for Facial Recognition. Journal of Computing and Information Science in Engineering, 2006, 6, 390-396.	2.7	24
20	New method to calibrate and validate a high-resolution 3D scanner, based on photogrammetry. Precision Engineering, 2014, 38, 279-291.	3.4	24
21	Coded targets and hybrid grids for photogrammetric 3D digitisation of human faces. Virtual and Physical Prototyping, 2008, 3, 167-176.	10.4	21
22	Performance verification of a photogrammetric scanning system for micro-parts using a three-dimensional artifact: adjustment and calibration. International Journal of Advanced Manufacturing Technology, 2018, 96, 4267-4279.	3.0	21
23	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
24	Non-contact Reverse Engineering Modeling for Additive Manufacturing of Down Scaled Cultural Artefacts. Procedia CIRP, 2017, 62, 481-486.	1.9	20
25	Photogrammetric measurements of 3D printed microfluidic devices. Additive Manufacturing, 2018, 21, 53-62.	3.0	20
26	A Low-cost Multi Camera 3D Scanning System for Quality Measurement of Non-static Subjects. Procedia CIRP, 2015, 28, 88-93.	1.9	19
27	An artificial intelligence approach to registration of free-form shapes. CIRP Annals - Manufacturing Technology, 2004, 53, 139-142.	3.6	18
28	Accurate Facial Morphologic Measurements Using a 3-Camera Photogrammetric Method. Journal of Craniofacial Surgery, 2011, 22, 54-59.	0.7	18
29	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
30	Measuring techniques suitable for verification and repairing of industrial components: A comparison among optical systems. CIRP Journal of Manufacturing Science and Technology, 2019, 27, 114-123.	4.5	18
31	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
32	A Quality Evaluation Method for Laser Welding of Al Alloys Through Neural Networks. CIRP Annals - Manufacturing Technology, 2000, 49, 131-134.	3.6	16
33	Experimental investigation on camera calibration for 3D photogrammetric scanning of micro-features for micrometric resolution. International Journal of Advanced Manufacturing Technology, 2017, 91, 2935-2947.	3.0	16
34	Pseudo-fuzzy discrete-event simulation for on-line production control. Computers and Industrial Engineering, 2005, 49, 266-286.	6.3	14
35	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
36	Computer Numerical Controlled Grinding and Physical Vapor Deposition for Fused Deposition Modelled Workpieces. Advances in Materials Science and Engineering, 2018, 2018, 1-7.	1.8	14

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37	Multistack Close Range Photogrammetry for Low Cost Submillimeter Metrology. Journal of Computing and Information Science in Engineering, 2013, 13, .	2.7	13
38	Semi-automatic Low Cost 3D Laser Scanning Systems for Reverse Engineering. Procedia CIRP, 2015, 28, 94-99.	1.9	13
39	Photogrammetry Applied to Small and Micro Scaled Objects: A Review. Lecture Notes in Mechanical Engineering, 2018, , 57-77.	0.4	13
40	Localâ€genetic slicing of point clouds for rapid prototyping. Rapid Prototyping Journal, 2008, 14, 161-166.	3.2	12
41	Three-Dimensional Anthropometric Database of Attractive Caucasian Women. Journal of Craniofacial Surgery, 2016, 27, 1884-1895.	0.7	12
42	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. International Journal on Interactive Design and Manufacturing, 2018, 12, 979-993.	2.2	12
43	A hybrid approach to the single line scheduling problem with multiple products and sequence-dependent time. Computers and Industrial Engineering, 2003, 45, 573-583.	6.3	11
44	New challenges for reverse engineering in facial treatments: How can the new 3D non-invasive surface measures support diagnoses and cures?. Virtual and Physical Prototyping, 2010, 5, 3-12.	10.4	11
45	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
46	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
47	Use of Miniature Step Gauges to Assess the Performance of 3D Optical Scanners and to Evaluate the Accuracy of a Novel Additive Manufacture Process. Sensors, 2020, 20, 738.	3.8	8
48	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
49	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
50	High resolution-optical tomography for in-process layerwise monitoring of a laser-powder bed fusion technology. Additive Manufacturing, 2022, 55, 102850.	3.0	7
51	A volumetric approach for STL generation from 3D scanned products. Journal of Materials Processing Technology, 2008, 204, 403-411.	6.3	6
52	An Expert System for Reliable Tool-Replacement Policies in Metal Cutting. Journal of Engineering for Industry, 1994, 116, 405-407.	0.8	5
53	Predicting The Wear Resistance Of Wc-Co Coatings Using Neural Networks. International Journal of Modelling and Simulation, 1999, 19, 410-417.	3.3	5
54	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

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55	A Multilevel Approach to Edge Detection in Tessellated Point Clouds. CIRP Annals - Manufacturing Technology, 2005, 54, 127-130.	3.6	5
56	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
57	A parametric FEM analysis of extrusion using a personal computer. Journal of Materials Processing Technology, 1992, 31, 335-345.	6.3	3
58	Application of off-the-shelf stereo-cameras for the 3D assessment of morphometric variations caused by rhinoplasty. Journal of Medical Engineering and Technology, 2017, 41, 186-199.	1.4	3
59	Technological scouting of bi-material face masks: simulation of adherence using 3D Facial Norms. Procedia CIRP, 2022, 110, 259-264.	1.9	3
60	Low Cost 3D Face Scanning Based on Landmarks and Photogrammetry. Lecture Notes in Electrical Engineering, 2009, , 93-106.	0.4	2
61	Validation of a High-Resolution 3D Face Scanner Based on Stereophotogrammetry. , 2011, , .		2
62	3D Face Measurement and Scanning Using Digital Close Range Photogrammetry: Evaluation of Different Solutions and Experimental Approaches. , 2010, , .		2
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	Telemanufacturing of reverse engineered parts: A case study. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, 217, 727-731.	2.4	1
65	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
66	Artefacts Used for Testing 3D Optical-Based Scanners. Lecture Notes in Mechanical Engineering, 2020, , 173-189.	0.4	1
67	Technological scouting of bi-material face masks: experimental analysis on real faces. Procedia CIRP, 2022, 110, 354-359.	1.9	1
68	Computer‐aided design for flash welds. Welding International, 1994, 8, 195-204.	0.7	0
69	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
70	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
71	A comprehensive study of PLA material relationships for fused filament fabricated part performances. AIP Conference Proceedings, 2019, , .	0.4	0