

Fulvio Lavecchia

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,127
citations

516710

16
h-index

395702

33
g-index

40
all docs

40
docs citations

40
times ranked

981
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	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
6	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
7	Additive Manufacturing: New Trends in the 4th Industrial Revolution. Lecture Notes in Mechanical Engineering, 2019, , 153-169.	0.4	33
8	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
9	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
10	New method to calibrate and validate a high-resolution 3D scanner, based on photogrammetry. Precision Engineering, 2014, 38, 279-291.	3.4	24
11	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
12	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
13	Non-contact Reverse Engineering Modeling for Additive Manufacturing of Down Scaled Cultural Artefacts. Procedia CIRP, 2017, 62, 481-486.	1.9	20
14	A Low-cost Multi Camera 3D Scanning System for Quality Measurement of Non-static Subjects. Procedia CIRP, 2015, 28, 88-93.	1.9	19
15	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
16	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
17	Preliminary Study on the 3D Digitization of Millimeter Scale Products by Means of Photogrammetry. Procedia CIRP, 2015, 33, 257-262.	1.9	17
18	The influence of software algorithms on photogrammetric micro-feature measurementâ€™s uncertainty. International Journal of Advanced Manufacturing Technology, 2017, 93, 3991-4005.	3.0	14

#	ARTICLE	IF	CITATIONS
19	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
20	Multistack Close Range Photogrammetry for Low Cost Submillimeter Metrology. <i>Journal of Computing and Information Science in Engineering</i> , 2013, 13, .	2.7	13
21	Semi-automatic Low Cost 3D Laser Scanning Systems for Reverse Engineering. <i>Procedia CIRP</i> , 2015, 28, 94-99.	1.9	13
22	Photogrammetry Applied to Small and Micro Scaled Objects: A Review. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 57-77.	0.4	13
23	Three-Dimensional Anthropometric Database of Attractive Caucasian Women. <i>Journal of Craniofacial Surgery</i> , 2016, 27, 1884-1895.	0.7	12
24	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
25	A 12-camera body scanning system based on close-range photogrammetry for precise applications. <i>Virtual and Physical Prototyping</i> , 2016, 11, 49-56.	10.4	10
26	Photogrammetric 3D skull/photo superimposition: A pilot study. <i>Forensic Science International</i> , 2017, 273, 168-174.	2.2	9
27	Measurement of polymers with 3D optical scanners: evaluation of the subsurface scattering effect through five miniature step gauges. <i>Measurement Science and Technology</i> , 2020, 31, 015010.	2.6	9
28	Direct Digital Manufacturing of ABS parts: an Experimental Study on Effectiveness of Proprietary Software for Shrinkage Compensation. <i>International Journal of Digital Content Technology and Its Applications</i> , 2012, 6, 546-555.	0.1	9
29	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
30	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
31	Analysis of Shape Geometry and Roughness of Ti6Al4V Parts Fabricated by Nanosecond Laser Ablation. <i>Micromachines</i> , 2018, 9, 324.	2.9	6
32	A New Three-Dimensional Photogrammetric Face Scanner for the Morpho-Biometric 3D Feature Extraction Applied to a Massive Field Analysis of Italian Attractive Women. <i>Procedia CIRP</i> , 2013, 5, 259-264.	1.9	5
33	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
34	Characterization of PLA parts made with AM process. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
35	Internal structure optimization for fused deposition modeling ABS parts. , 2009, , .		2
36	Validation of a High-Resolution 3D Face Scanner Based on Stereophotogrammetry. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
37	3D Face Measurement and Scanning Using Digital Close Range Photogrammetry: Evaluation of Different Solutions and Experimental Approaches. , 2010, , .		2
38	A simple photogrammetric system for automatic capture and measurement of facial soft tissues during movement. , 2009, , .		1
39	Artefacts Used for Testing 3D Optical-Based Scanners. Lecture Notes in Mechanical Engineering, 2020, , 173-189.	0.4	1
40	A comprehensive study of PLA material relationships for fused filament fabricated part performances. AIP Conference Proceedings, 2019, , .	0.4	0