Fulvio Lavecchia

List of Publications by Year
in descending order

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	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
2	High resolution-optical tomography for in-process layerwise monitoring of a laser-powder bed fusion technology. Additive Manufacturing, 2022, 55, 102850.	3.0	7
3	Measurement of polymers with 3D optical scanners: evaluation of the subsurface scattering effect through five miniature step gauges. Measurement Science and Technology, 2020, 31, 015010.	2.6	9
4	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
5	Artefacts Used for Testing 3D Optical-Based Scanners. Lecture Notes in Mechanical Engineering, 2020, , 173-189.	0.4	1
6	Additive Manufacturing: New Trends in the 4th Industrial Revolution. Lecture Notes in Mechanical Engineering, 2019, , 153-169.	0.4	33
7	A comprehensive study of PLA material relationships for fused filament fabricated part performances. AIP Conference Proceedings, 2019, , .	0.4	0
8	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
9	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
10	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
11	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
12	Photogrammetry Applied to Small and Micro Scaled Objects: A Review. Lecture Notes in Mechanical Engineering, 2018, , 57-77.	0.4	13
13	Analysis of Shape Geometry and Roughness of Ti6Al4V Parts Fabricated by Nanosecond Laser Ablation. Micromachines, 2018, 9, 324.	2.9	6
14	Characterization of PLA parts made with AM process. AIP Conference Proceedings, 2018, , .	0.4	2
15	Photogrammetric 3D skull/photo superimposition: A pilot study. Forensic Science International, 2017, 273, 168-174.	2.2	9
16	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
17	Non-contact Reverse Engineering Modeling for Additive Manufacturing of Down Scaled Cultural Artefacts. Procedia CIRP, 2017, 62, 481-486.	1.9	20
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	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
20	Three-Dimensional Anthropometric Database of Attractive Caucasian Women. Journal of Craniofacial Surgery, 2016, 27, 1884-1895.	0.7	12
21	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
22	A Low-cost Multi Camera 3D Scanning System for Quality Measurement of Non-static Subjects. Procedia CIRP, 2015, 28, 88-93.	1.9	19
23	Preliminary Study on the 3D Digitization of Millimeter Scale Products by Means of Photogrammetry. Procedia CIRP, 2015, 33, 257-262.	1.9	17
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	Validation of a High-Resolution 3D Face Scanner Based on Stereophotogrammetry. , 2011, , .		2
35	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
36	3D Face Measurement and Scanning Using Digital Close Range Photogrammetry: Evaluation of Different Solutions and Experimental Approaches. , 2010, , .		2

#	Article	IF	Citations
37	Experimental study aiming to enhance the surface finish of fused deposition modeled parts. CIRP Annals - Manufacturing Technology, 2009, 58, 189-192.	3.6	314
38	A simple photogrammetric system for automatic capture and measurement of facial soft tissues during movement. , 2009, , .		1
39	Internal structure optimization for fused deposition modeling ABS parts. , 2009, , .		2
40	Study of compression properties of topologically optimized FDM made structured parts. CIRP Annals - Manufacturing Technology, 2008, 57, 243-246.	3.6	77