

# Francesco Leali

## List of Publications by Year in descending order

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75  
papers

1,968  
citations

471509

17  
h-index

265206

42  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1670  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Warpage and Tolerances in Injection Moulding Components Based on Simulation and Experimental Validation. Lecture Notes in Mechanical Engineering, 2022, , 342-353.	0.4	1
2	Model-Based Approach for Optimal Allocation of GD&T. Lecture Notes in Mechanical Engineering, 2022, , 277-284.	0.4	2
3	Optimization of an Engine Piston Through CAD Platforms and Additive Manufacturing Based Systematic Product Redesign. Lecture Notes in Mechanical Engineering, 2022, , 486-493.	0.4	3
4	An Integrated Modular Design and Group Decision-Making Method in Complex Design Environments. Lecture Notes in Mechanical Engineering, 2022, , 581-592.	0.4	1
5	Assessment of close-range photogrammetry for the low cost development of 3D models of car bodywork components. International Journal on Interactive Design and Manufacturing, 2022, 16, 703-713.	2.2	6
6	A method for yield and cycle time improvements in Al alloy casting with enhanced conductivity steel for die construction. Manufacturing Review, 2022, 9, 18.	1.5	0
7	Development of a Computer-Aided integrated method for the tolerance-cost multi-disciplinary optimization of an automotive engine. International Journal on Interactive Design and Manufacturing, 2022, 16, 1457-1469.	2.2	2
8	Computer-Aided Tolerancing Analysis of a High-Performance Car Engine Assembly. Lecture Notes in Mechanical Engineering, 2021, , 121-127.	0.4	1
9	Design for Additive Manufacturing of a Topology Optimized Brake Caliper Through CAD-Platform-Based Systematic Approach. Lecture Notes in Mechanical Engineering, 2021, , 92-97.	0.4	2
10	Simulation and Experimental Validation of Secondary Dendrite Arm Spacing for AlSi7Mg0.3 Chassis Parts in Low Pressure Die Casting. Lecture Notes in Mechanical Engineering, 2021, , 28-33.	0.4	2
11	Assessment of Computer-Aided Design Tools for Topology Optimization of Additively Manufactured Automotive Components. Applied Sciences (Switzerland), 2021, 11, 10980.	2.5	8
12	Sensor Matrix Robustness for Monitoring the Interface Pressure Between Car Driver and Seat. Advances in Intelligent Systems and Computing, 2020, , 229-235.	0.6	1
13	Human-robot coexistence and interaction in open industrial cells. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101846.	9.9	93
14	Integration of Topology Optimisation and Design Variants Selection for Additive Manufacturing-Based Systematic Product Redesign. Applied Sciences (Switzerland), 2020, 10, 7841.	2.5	15
15	Integrated CAD platform approach for Design for Additive Manufacturing of high performance automotive components. International Journal on Interactive Design and Manufacturing, 2020, 14, 899-909.	2.2	23
16	Implementation of a quality framework on the launch phase of an automated assembly line for top class automotive chassis. IOP Conference Series: Materials Science and Engineering, 2020, 836, 012003.	0.6	0
17	Effective integration of Cobots and additive manufacturing for reconfigurable assembly solutions of biomedical products. International Journal on Interactive Design and Manufacturing, 2020, 14, 1085-1089.	2.2	12
18	A methodology for out of position occupant identification from pressure sensors embedded in a vehicle seat. Human-Intelligent Systems Integration, 2020, 2, 35-44.	2.5	6

#	ARTICLE	IF	CITATIONS
19	The Systematic Design of Industrial Products through Design Archetypes: An Application on Mechanical Transmissions. Applied Sciences (Switzerland), 2020, 10, 2277.	2.5	2
20	Robust Parameter Analysis of Compliant Part Models for Computer Aided Tolerancing. Lecture Notes in Mechanical Engineering, 2020, , 241-254.	0.4	2
21	Vibration-Assisted Face Grinding of Mould Steel. Lecture Notes in Mechanical Engineering, 2020, , 291-303.	0.4	5
22	A Methodological Approach for the Design of Inclusive Assistive Devices by Integrating Co-design and Additive Manufacturing Technologies. Advances in Intelligent Systems and Computing, 2020, , 816-822.	0.6	3
23	Automotive Design Engineering: Material and Processes Selection Problems. Lecture Notes in Mechanical Engineering, 2020, , 373-384.	0.4	1
24	A Design Methodology for an Innovative Racing Mini Motorcycle Frame. Computer-Aided Design and Applications, 2020, 17, 1116-1129.	0.6	0
25	Computer-Aided Assessment of Safety Countermeasures for Industrial Human-Robot Collaborative Applications. Springer Proceedings in Advanced Robotics, 2020, , 186-198.	1.3	0
26	CAD-platform-based Process optimization Design Method by Selective Laser Melting Simulation. , 2020, , .		0
27	Systematic Integration of Topology Optimization Techniques in Design for Additive Manufacturing Methodologies Applied to Automotive Settings. , 2020, , .		4
28	Out of Position Driver Monitoring from Seat Pressure in Dynamic Maneuvers. Advances in Intelligent Systems and Computing, 2019, , 76-81.	0.6	6
29	Augmented reality based approach for on-line quality assessment of polished surfaces. Robotics and Computer-Integrated Manufacturing, 2019, 59, 158-167.	9.9	43
30	Correlation of Driver Head Posture and Trapezius Muscle Activity as Comfort Assessment of Car Seat. Advances in Intelligent Systems and Computing, 2019, , 241-247.	0.6	2
31	A Co-Design Method for the Additive Manufacturing of Customised Assistive Devices for Hand Pathologies. Journal of Integrated Design and Process Science, 2019, 22, 21-37.	0.5	22
32	Human-robot collaborative reconfigurable platform for surface finishing processes. Procedia Manufacturing, 2019, 38, 76-83.	1.9	5
33	Monitoring Driver Posture Through Sensorized Seat. Advances in Intelligent Systems and Computing, 2019, , 744-749.	0.6	4
34	Enhancing heritage fruition through 3D virtual models and augmented reality: an application to Roman artefacts. Virtual Archaeology Review, 2019, 10, 67.	1.9	17
35	MÃTODO INTEGRADO ASISTIDO POR ORDENADOR PARA EL DESARROLLO EFECTIVO DE PROCESOS DE SOLDADURA ROBÃTICA EN EL MONTAJE DE CHASIS DE AUTOMÃVILES. Dyna (Spain), 2019, 94, 150-154.	0.2	3
36	Survey on human-robot collaboration in industrial settings: Safety, intuitive interfaces and applications. Mechatronics, 2018, 55, 248-266.	3.3	660

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37	Integrated geometrical and dimensional tolerances stack-up analysis for the design of mechanical assemblies: an application on marine engineering. <i>Computer-Aided Design and Applications</i> , 2018, 15, 631-642.	0.6	5
38	Predicting tolerance on the welding distortion in a thin aluminum welded T-joint. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 2479-2494.	3.0	4
39	3D Virtual Reconstruction and Augmented Reality Visualization of Damaged Stone Sculptures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 364, 012018.	0.6	16
40	Survey on Human-Robot Interaction for Robot Programming in Industrial Applications. <i>IFAC-PapersOnLine</i> , 2018, 51, 66-71.	0.9	48
41	An Augmented Reality Application for the Visualization and the Pattern Analysis of a Roman Mosaic. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 364, 012094.	0.6	15
42	Reconfigurable Robotic Solution for Effective Finishing of Complex Surfaces. , 2018, , .		10
43	A review on decision-making methods in engineering design for the automotive industry. <i>Journal of Engineering Design</i> , 2017, 28, 118-143.	2.3	47
44	A systematic user-centred framework for engineering product design in small- and medium-sized enterprises (SMEs). <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 1723-1746.	3.0	29
45	Numerical Simulation and Experimental Validation of MIG Welding of T-Joints of Thin Aluminum Plates for Top Class Vehicles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 379-388.	2.2	16
46	Reciprocal Frames in Temporary Structures: An Aesthetical and Parametric Investigation. <i>Nexus Network Journal</i> , 2017, 19, 741-762.	0.7	11
47	Design Archetype of Gears for Knowledge Based Engineering. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 1131-1140.	0.4	2
48	Integrated design method for optimal tolerance stack evaluation for top class automotive chassis. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 1013-1022.	0.4	8
49	Improving robotic machining accuracy through experimental error investigation and modular compensation. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 3-15.	3.0	85
50	A workcell calibration method for enhancing accuracy in robot machining of aerospace parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 47-55.	3.0	48
51	Evaluation of operator relief for an effective design of HRC workcells. , 2016, , .		13
52	A Framework for 3D Pattern Analysis and Reconstruction of Persian Architectural Elements. <i>Nexus Network Journal</i> , 2016, 18, 133-167.	0.7	17
53	A parametric CAD-based method for modelling and simulation of positive displacement machines. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 3253-3263.	1.5	13
54	A Multicriteria Decision-Making Application to the Conceptual Design of Mechanical Components. <i>Journal of Multi-Criteria Decision Analysis</i> , 2016, 23, 87-111.	1.9	14

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55	Robotic implementation of the slide method for measurement of the thermal emissivity of building elements. <i>Energy and Buildings</i> , 2016, 114, 241-246.	6.7	5
56	A systematic approach to the engineering design of a HRC workcell for bio-medical product assembly. , 2015, , .		15
57	Selecting alternatives in the conceptual design phase: an application of Fuzzy-AHP and Pugh's Controlled Convergence. <i>International Journal on Interactive Design and Manufacturing</i> , 2015, 9, 1-17.	2.2	32
58	Offline workpiece calibration method for robotic reconfigurable machining platform. , 2014, , .		3
59	A review on artificial intelligence applications to the optimal design of dedicated and reconfigurable manufacturing systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 403-418.	3.0	118
60	A method for reducing the energy consumption of pick-and-place industrial robots. <i>Mechatronics</i> , 2013, 23, 326-334.	3.3	120
61	Milling strategies optimized for industrial robots to machine hard materials. , 2013, , .		7
62	Integration of CAM off-line programming in robot high-accuracy machining. , 2013, , .		12
63	The Role of Co-Simulation in the Integrated Design of High-Dynamics Servomechanisms: An Experimental Evaluation. <i>Applied Mechanics and Materials</i> , 2013, 278-280, 1758-1764.	0.2	4
64	On designing optimal trajectories for servo-actuated mechanisms through highly detailed virtual prototypes. , 2013, , .		1
65	Experimental Investigation of Sources of Error in Robot Machining. <i>Communications in Computer and Information Science</i> , 2013, , 14-26.	0.5	25
66	Modeling and Optimization of Energy Consumption in Cooperative Multi-Robot Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2012, 9, 423-428.	5.2	90
67	Enhancing changeability of automotive Hybrid Reconfigurable Systems in digital environments. <i>International Journal on Interactive Design and Manufacturing</i> , 2012, 6, 251-263.	2.2	18
68	Hybrid Reconfigurable System design and optimization through virtual prototyping and digital manufacturing tools. <i>International Journal on Interactive Design and Manufacturing</i> , 2012, 6, 17-27.	2.2	39
69	A minimal touch approach for optimizing energy efficiency in pick-and-place manipulators. , 2011, , .		20
70	Object-Oriented Modeling of Industrial Manipulators With Application to Energy Optimal Trajectory Scaling. , 2011, , .		5
71	Real-time 3D features reconstruction through monocular vision. <i>International Journal on Interactive Design and Manufacturing</i> , 2010, 4, 103-112.	2.2	16
72	Embedding detailed robot energy optimization into high-level scheduling. , 2010, , .		20

#	ARTICLE	IF	CITATIONS
73	Engineering method for adaptive manufacturing systems design. International Journal on Interactive Design and Manufacturing, 2009, 3, 81-91.	2.2	29
74	Design of Fixture Systems in Automotive Manufacturing and Assembly. Advanced Materials Research, 0, 712-715, 2913-2916.	0.3	6
75	Synergic Product and Process Design for Additive Fabrication of Lightweight Vehicles. SAE International Journal of Advances and Current Practices in Mobility, 0, 5, 1024-1033.	2.0	2