

Salvatore Gerbino

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

777
citations

567281

15
h-index

526287

27
g-index

44
all docs

44
docs citations

44
times ranked

794
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison between customized clear and removable orthodontic appliances manufactured using RP and CNC techniques. <i>Dental Materials</i> , 2013, 29, e1-e10.	3.5	105
2	A comparison between mechanical properties of specimens 3D printed with virgin and recycled PLA. <i>Procedia CIRP</i> , 2019, 79, 143-146.	1.9	94
3	Simulation of variational compliant assemblies with shape errors based on morphing mesh approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 53, 47-61.	3.0	71
4	On the influence of scanning factors on the laser scanner-based 3D inspection process. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 1787-1799.	3.0	68
5	Towards Digital Twin Implementation for Assessing Production Line Performance and Balancing. <i>Sensors</i> , 2020, 20, 97.	3.8	49
6	Digital Twin for Monitoring Ergonomics during Manufacturing Production. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7758.	2.5	47
7	Variational modeling and assembly constraints in tolerance analysis of rigid part assemblies: planar and cylindrical features. <i>International Journal of Advanced Manufacturing Technology</i> , 2010, 49, 239-251.	3.0	38
8	Stereolithography in Oral Implantology A Comparison of Surgical Guides. <i>Implant Dentistry</i> , 2004, 13, 133-139.	1.3	34
9	Combining Integrated Informative System and Historical Digital Twin for Maintenance and Preservation of Artistic Assets. <i>Sensors</i> , 2021, 21, 5956.	3.8	27
10	Improving comfort of shoe sole through experiments based on CAD-FEM modeling. <i>Medical Engineering and Physics</i> , 2013, 35, 36-46.	1.7	26
11	Statistical variation analysis of multi-station compliant assemblies based on sensitivity matrix. <i>International Journal of Computer Applications in Technology</i> , 2008, 33, 12.	0.5	20
12	Fixture Capability Optimisation for Early-stage Design of Assembly System with Compliant Parts Using Nested Polynomial Chaos Expansion. <i>Procedia CIRP</i> , 2016, 41, 87-92.	1.9	19
13	A RE-CAE methodology for re-designing free shape objects interactively. <i>International Journal on Interactive Design and Manufacturing</i> , 2009, 3, 273-283.	2.2	17
14	On the usability assessment of the graphical user interface related to a digital pattern software tool. <i>International Journal on Interactive Design and Manufacturing</i> , 2017, 11, 457-469.	2.2	17
15	A novel hybrid shell element formulation (QUAD+ and TRIA+): A benchmarking and comparative study. <i>Finite Elements in Analysis and Design</i> , 2019, 166, 103319.	3.2	16
16	Automatic evaluation of variational parameters for tolerance analysis of rigid parts based on graphs. <i>International Journal on Interactive Design and Manufacturing</i> , 2013, 7, 239-248.	2.2	14
17	On BIM Interoperability via the IFC Standard: An Assessment from the Structural Engineering and Design Viewpoint. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11430.	2.5	14
18	Controlling form errors in 3D printed models associated to size and position on the working plane. <i>International Journal on Interactive Design and Manufacturing</i> , 2018, 12, 969-977.	2.2	12

#	ARTICLE	IF	CITATIONS
19	A computer-aided tool to quickly analyse variabilities in flexible assemblies in different design scenarios. International Journal of Product Development, 2013, 18, 112.	0.2	11
20	Flatness, circularity and cylindricity errors in 3D printed models associated to size and position on the working plane. Lecture Notes in Mechanical Engineering, 2017, , 201-212.	0.4	8
21	A graph-based method and a software tool for interactive tolerance specification. Procedia CIRP, 2018, 75, 173-178.	1.9	7
22	BE analysis of shaft-hub couplings with polygonal profiles. Journal of Materials Processing Technology, 2001, 109, 30-37.	6.3	5
23	A CAD-Based Methodology for Motion and Constraint Analysis According to Screw Theory. , 2009, , .		5
24	Towards the integration of thermal physics and geometrical constraints for a 3D-multiphysical sketcher. , 2015, , .		5
25	Integrated wearable devices for evaluating the biomechanical overload in manufacturing. , 2019, , .		5
26	Robust interactive design for ergonomics and safety: R-IDEaS procedure and applications. International Journal on Interactive Design and Manufacturing, 2019, 13, 1259-1268.	2.2	5
27	Multi-wave light technology enabling closed-loop in-process quality control for automotive battery assembly with remote laser welding. , 2019, , .		5
28	A Sequential Constraint Solver to Simulate Assembling Operations for Tolerance Analysis. Procedia CIRP, 2013, 10, 169-177.	1.9	4
29	Parametric Variational Analysis of Compliant Sheet Metal Assemblies with Shell Elements. Procedia CIRP, 2015, 33, 339-344.	1.9	4
30	Line Balancing Assessment Enhanced by IoT and Simulation Tools. , 2019, , .		4
31	Investigation on Geometrical Complexity Techniques for Assessing AM Feasibility. Macromolecular Symposia, 2021, 396, 2000309.	0.7	3
32	FEM and BEM Stress Analysis of Mandibular Bone Surrounding a Dental Implant. The Open Mechanical Engineering Journal, 2015, 9, 282-292.	0.3	3
33	A Sensor Data Fusion-Based Locating Method for Reverse Engineering Scanning Systems. , 2019, , .		2
34	Assessing Risks Awareness in Operating Rooms among Post-Graduate Students: A Pilot Study. Sustainability, 2021, 13, 3860.	3.2	2
35	Virtual shimming simulation for smart assembly of aircraft skin panels based on a physics-driven digital twin. International Journal on Interactive Design and Manufacturing, 2022, 16, 753-763.	2.2	2
36	Functional analyses to assess the effect of the curing process on the properties of light activated composites. Production Engineering, 2019, 13, 239-246.	2.3	1

#	ARTICLE	IF	CITATIONS
37	Physics-based modelling and optimisation of shimming operations in the assembly process of aircraft skin panels. , 2020, , .		1
38	A sensor data fusion-based locating method for large-scale metrology. Acta IMEKO (2012), 2020, 9, 136.	0.7	1
39	Modeling and Simulation of Assembly Constraints in Tolerance Analysis of Rigid Part Assemblies. , 0, , 209-229.		1
40	On the Geometrical Complexity Index as a Driver for Selecting the Production Technology. Lecture Notes in Mechanical Engineering, 2022, , 3-12.	0.4	1
41	A hierarchical set of SysML Model-based objects for tolerance specification. , 2016, , .		0
42	BEM in Biomechanics. , 2018, , 145-167.		0