

# 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	On the Geometrical Complexity Index as a Driver for Selecting the Production Technology. Lecture Notes in Mechanical Engineering, 2022, , 3-12.	0.4	1
2	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
3	Assessing Risks Awareness in Operating Rooms among Post-Graduate Students: A Pilot Study. Sustainability, 2021, 13, 3860.	3.2	2
4	Investigation on Geometrical Complexity Techniques for Assessing AM Feasibility. Macromolecular Symposia, 2021, 396, 2000309.	0.7	3
5	Combining Integrated Informative System and Historical Digital Twin for Maintenance and Preservation of Artistic Assets. Sensors, 2021, 21, 5956.	3.8	27
6	On BIM Interoperability via the IFC Standard: An Assessment from the Structural Engineering and Design Viewpoint. Applied Sciences (Switzerland), 2021, 11, 11430.	2.5	14
7	Towards Digital Twin Implementation for Assessing Production Line Performance and Balancing. Sensors, 2020, 20, 97.	3.8	49
8	Digital Twin for Monitoring Ergonomics during Manufacturing Production. Applied Sciences (Switzerland), 2020, 10, 7758.	2.5	47
9	Physics-based modelling and optimisation of shimming operations in the assembly process of aircraft skin panels. , 2020, , .		1
10	A sensor data fusion-based locating method for large-scale metrology. Acta IMEKO (2012), 2020, 9, 136.	0.7	1
11	Integrated wearable devices for evaluating the biomechanical overload in manufacturing. , 2019, , .		5
12	A Sensor Data Fusion-Based Locating Method for Reverse Engineering Scanning Systems. , 2019, , .		2
13	Line Balancing Assessment Enhanced by IoT and Simulation Tools. , 2019, , .		4
14	A comparison between mechanical properties of specimens 3D printed with virgin and recycled PLA. Procedia CIRP, 2019, 79, 143-146.	1.9	94
15	A novel hybrid shell element formulation (QUAD+ and TRIA+): A benchmarking and comparative study. Finite Elements in Analysis and Design, 2019, 166, 103319.	3.2	16
16	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
17	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
18	Multi-wave light technology enabling closed-loop in-process quality control for automotive battery assembly with remote laser welding. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	BEM in Biomechanics. , 2018, , 145-167.		0
20	Controlling form errors in 3D printed models associated to size and position on the working plane. International Journal on Interactive Design and Manufacturing, 2018, 12, 969-977.	2.2	12
21	A graph-based method and a software tool for interactive tolerance specification. Procedia CIRP, 2018, 75, 173-178.	1.9	7
22	On the usability assessment of the graphical user interface related to a digital pattern software tool. International Journal on Interactive Design and Manufacturing, 2017, 11, 457-469.	2.2	17
23	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
24	A hierarchical set of SysML Model-based objects for tolerance specification. , 2016, , .		0
25	Fixture Capability Optimisation for Early-stage Design of Assembly System with Compliant Parts Using Nested Polynomial Chaos Expansion. Procedia CIRP, 2016, 41, 87-92.	1.9	19
26	On the influence of scanning factors on the laser scanner-based 3D inspection process. International Journal of Advanced Manufacturing Technology, 2016, 84, 1787-1799.	3.0	68
27	Towards the integration of thermal physics and geometrical constraints for a 3D-multiphysical sketcher. , 2015, , .		5
28	Parametric Variational Analysis of Compliant Sheet Metal Assemblies with Shell Elements. Procedia CIRP, 2015, 33, 339-344.	1.9	4
29	FEM and BEM Stress Analysis of Mandibular Bone Surrounding a Dental Implant. The Open Mechanical Engineering Journal, 2015, 9, 282-292.	0.3	3
30	Automatic evaluation of variational parameters for tolerance analysis of rigid parts based on graphs. International Journal on Interactive Design and Manufacturing, 2013, 7, 239-248.	2.2	14
31	A comparison between customized clear and removable orthodontic appliances manufactured using RP and CNC techniques. Dental Materials, 2013, 29, e1-e10.	3.5	105
32	A Sequential Constraint Solver to Simulate Assembling Operations for Tolerance Analysis. Procedia CIRP, 2013, 10, 169-177.	1.9	4
33	Improving comfort of shoe sole through experiments based on CAD-FEM modeling. Medical Engineering and Physics, 2013, 35, 36-46.	1.7	26
34	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
35	Simulation of variational compliant assemblies with shape errors based on morphing mesh approach. International Journal of Advanced Manufacturing Technology, 2011, 53, 47-61.	3.0	71
36	Variational modeling and assembly constraints in tolerance analysis of rigid part assemblies: planar and cylindrical features. International Journal of Advanced Manufacturing Technology, 2010, 49, 239-251.	3.0	38

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37	A RE-CAE methodology for re-designing free shape objects interactively. International Journal on Interactive Design and Manufacturing, 2009, 3, 273-283.	2.2	17
38	A CAD-Based Methodology for Motion and Constraint Analysis According to Screw Theory. , 2009, , .		5
39	Statistical variation analysis of multi-station compliant assemblies based on sensitivity matrix. International Journal of Computer Applications in Technology, 2008, 33, 12.	0.5	20
40	Stereolithography in Oral Implantology A Comparison of Surgical Guides. Implant Dentistry, 2004, 13, 133-139.	1.3	34
41	BE analysis of shaft-hub couplings with polygonal profiles. Journal of Materials Processing Technology, 2001, 109, 30-37.	6.3	5
42	Modeling and Simulation of Assembly Constraints in Tolerance Analysis of Rigid Part Assemblies. , 0, , 209-229.		1