

Stanislao Patalano

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

565
citations

758635

12
h-index

642321

23
g-index

44
all docs

44
docs citations

44
times ranked

549
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale approach from mechatronic to Cyber-Physical Systems for the design of manufacturing systems. <i>Computers in Industry</i> , 2017, 86, 52-69.	5.7	89
2	Experimental investigation into the effectiveness of a super-capacitor based hybrid energy storage system for urban commercial vehicles. <i>Applied Energy</i> , 2018, 227, 312-323.	5.1	77
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.	1.5	71
4	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.	1.5	38
5	Experimental study on the performance of a ZEBRA battery based propulsion system for urban commercial vehicles. <i>Applied Energy</i> , 2017, 185, 2005-2018.	5.1	36
6	Re-design of a railway locomotive in virtual environment for ergonomic requirements. <i>International Journal on Interactive Design and Manufacturing</i> , 2008, 2, 47-57.	1.3	21
7	Statistical variation analysis of multi-station compliant assemblies based on sensitivity matrix. <i>International Journal of Computer Applications in Technology</i> , 2008, 33, 12.	0.3	20
8	Virtual concepts and experiments to improve quality of train interiors. <i>International Journal on Interactive Design and Manufacturing</i> , 2009, 3, 65-79.	1.3	19
9	Innovative assembly process for modular train and feasibility analysis in virtual environment. <i>International Journal on Interactive Design and Manufacturing</i> , 2009, 3, 93-101.	1.3	17
10	3D tolerance specification: an approach for the analysis of the global consistency based on graphs. <i>International Journal on Interactive Design and Manufacturing</i> , 2010, 4, 1-10.	1.3	17
11	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.	1.3	14
12	Mobile Robots and Cobots Integration: A Preliminary Design of a Mechatronic Interface by Using MBSE Approach. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 419.	1.3	13
13	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.	1.3	12
14	A computer-aided tool to quickly analyse variabilities in flexible assemblies in different design scenarios. <i>International Journal of Product Development</i> , 2013, 18, 112.	0.2	11
15	Collaborative Workplace Design: A Knowledge-Based Approach to Promote Human-Robot Collaboration and Multi-Objective Layout Optimization. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12147.	1.3	11
16	A new approach to the anthropocentric design of human-robot collaborative environments. <i>Acta IMEKO (2012)</i> , 2020, 9, 80.	0.4	9
17	Flatness, circularity and cylindricity errors in 3D printed models associated to size and position on the working plane. <i>Lecture Notes in Mechanical Engineering</i> , 2017, , 201-212.	0.3	8
18	The anthropometric basis for the designing of collaborative workplaces. , 2019, , .		8

#	ARTICLE	IF	CITATIONS
19	Heterogeneous Models Integration for Safety Critical Mechatronic Systems and Related Digital Twin Definition: Application to a Collaborative Workplace for Aircraft Assembly. Applied Sciences (Switzerland), 2022, 12, 2787.	1.3	8
20	Automotive power window system design: object-oriented modelling and design of experiments integration within a digital pattern approach. Mechanics and Industry, 2016, 17, 505.	0.5	7
21	A multi-domain modelling and verification procedure within MBSE approach to design propulsion systems for road electric vehicles. Mechanics and Industry, 2017, 18, 107.	0.5	7
22	A graph-based method and a software tool for interactive tolerance specification. Procedia CIRP, 2018, 75, 173-178.	1.0	7
23	A Sequential Constraint Solver to Simulate Assembling Operations for Tolerance Analysis. Procedia CIRP, 2013, 10, 169-177.	1.0	4
24	Parametric Variational Analysis of Compliant Sheet Metal Assemblies with Shell Elements. Procedia CIRP, 2015, 33, 339-344.	1.0	4
25	“Federica”™s MOOC™ (Massive Open Online Course): a blended course in engineering drawing at Federico II. International Journal on Interactive Design and Manufacturing, 2019, 13, 1115-1128.	1.3	4
26	System approach to the pre-design of electric propulsion systems for road vehicles. , 2015, , .		3
27	A Critical Exposition of Model Order Reduction Techniques: Application to a Slewing Flexible Beam. Archives of Computational Methods in Engineering, 2021, 28, 31-52.	6.0	3
28	RFLP Approach in the Designing of Power-Trains for Road Electric Vehicles. Applied Condition Monitoring, 2015, , 249-258.	0.4	3
29	Systems engineering approach for eco-comparison among power-train configurations of hybrid bus. , 2016, , .		2
30	Window shape effect in a single bowden power window system. , 2017, , .		2
31	A Sensor Data Fusion-Based Locating Method for Reverse Engineering Scanning Systems. , 2019, , .		2
32	Improving the Robustness of Mechatronic Systems. , 2016, , 113-128.		2
33	A Graph-Based Multi-level Framework to Support the Designing of Collaborative Workplaces. Lecture Notes in Mechanical Engineering, 2022, , 641-649.	0.3	2
34	A Functional Approach to Optimal Dimensioning of Automotive Transmission Shafts. , 2012, , .		1
35	Object-oriented model validation for single bowden power window system development. , 2015, , .		1
36	PLACIS: Systems engineering through a project-based learning approach general framework, debates and achievements through an overview and a concrete example. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	A sensor data fusion-based locating method for large-scale metrology. Acta IMEKO (2012), 2020, 9, 136.	0.4	1
38	An approach and an illustrative case study for a hybrid development process in mechatronic system design. International Journal of Product Lifecycle Management, 2021, 13, 265.	0.1	1
39	Modeling and Simulation of Assembly Constraints in Tolerance Analysis of Rigid Part Assemblies. , 0, , 209-229.		1
40	Work-in-progress: European platform for innovation and collaboration between engineer students (EPICES). , 2015, , .		0
41	Automatic generation of simulation workflows for system verification using XDSM representation. , 2017, , .		0
42	A graph-based approach and an interactive tool for preliminary digital prototyping. International Journal on Interactive Design and Manufacturing, 2021, 15, 125-127.	1.3	0