Moncef Hammadi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4813660/publications.pdf

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75	639	933264	713332
papers	citations	10 h-index	21 g-index

82	82	82	388
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A SysML-based methodology for mechatronic systems architectural design. Advanced Engineering Informatics, 2014, 28, 218-231.	4.0	101
2	Multi-scale approach from mechatronic to Cyber-Physical Systems for the design of manufacturing systems. Computers in Industry, 2017, 86, 52-69.	5.7	89
3	Layout optimization of power modules using a sequentially coupled approach. International Journal of Simulation Modelling, 2011, 10, 122-132.	0.6	35
4	Collaborative design process and product knowledge methodology for mechatronic systems. Computers in Industry, 2019, 105, 213-228.	5.7	26
5	A new multi-criteria indicator for mechatronic system performance evaluation in preliminary design level. , 2012, , .		22
6	Multidisciplinary approach for modelling and optimization of Road Electric Vehicles in conceptual design level. , 2012, , .		20
7	An interoperability process between CAD system and CAE applications based on CAD data. International Journal on Interactive Design and Manufacturing, 2018, 12, 1039-1058.	1.3	19
8	Multidisciplinary approach for optimizing mechatronic systems: Application to the optimal design of an electric vehicle. , 2014, , .		18
9	A multi-agent methodology for multi-level modeling of mechatronic systems. Advanced Engineering Informatics, 2014, 28, 208-217.	4.0	16
10	Assembly sequence plan generation of heavy machines based on the stability criterion. International Journal of Advanced Manufacturing Technology, 2019, 102, 2745-2755.	1.5	15
11	Knowledge sharing for mechatronic systems design and optimization. IFAC-PapersOnLine, 2018, 51, 1365-1370.	0.5	14
12	Evolution from mechatronics to cyber physical systems: An educational point of view. , 2016, , .		10
13	Narrowing the set of complex systemsâ€™ possible design solutions derived from the set-based concurrent engineering approach. Concurrent Engineering Research and Applications, 2019, 27, 233-248.	2.0	10
14	Parallel disassembly approach with recycling rate calculation of industrial products. International Journal of Advanced Manufacturing Technology, 2021, 113, 2969-2984.	1.5	10
15	Integrated Design Methodology of Automated Guided Vehicles Based on Swarm Robotics. Applied Sciences (Switzerland), 2021, 11, 6187.	1.3	10
16	Tool workspace consideration for assembly plan generation. Assembly Automation, 2021, 41, 612-625.	1.0	10
17	A Coupled Method for Disassembly Plans Evaluation Based on Operating Time and Quality Indexes Computing. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 1493-1510.	2.7	10
18	A mathematical formulation for processing time computing in disassembly lines and its optimization. Computers and Industrial Engineering, 2022, 165, 107933.	3.4	10

#	Article	IF	Citations
19	Integrating model-based system engineering with set-based concurrent engineering principles for reliability and manufacturability analysis of mechatronic products. Concurrent Engineering Research and Applications, 2019, 27, 80-94.	2.0	9
20	Pre-designing of a mechatronic system using an analytical approach with Dymola. Journal of Theoretical and Applied Mechanics, 0, , 697.	0.2	9
21	Architectural design of complex systems using set-based concurrent engineering. , 2017, , .		8
22	Conceptual design methodology for the preliminary study of a mechatronic system: application to wind turbine system. Mechanics and Industry, 2017, 18, 413.	0.5	8
23	Generic Framework for Holonic Modelling and Multi-Agent Based Verification of Reconfigurable Manufacturing Systems. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1793-1809.	1.1	8
24	Interoperability of CAD models and SysML specifications for the automated checking of design requirements. Procedia CIRP, 2021, 100, 259-264.	1.0	8
25	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
26	Mechatronic System Design using Model-Based Systems Engineering and Set-Based Concurrent Engineering Principles. , 2018, , .		7
27	Multiphysical Design Approach for Automotive Electronic Throttle Body. IEEE Transactions on Industrial Electronics, 2020, 67, 6752-6761.	5.2	7
28	Electric vehicle design, modelling and optimization. Mechanics and Industry, 2016, 17, 405.	0.5	6
29	Modeling and multi-objective optimization of an Electronic Throttle in open-loop. , 2016, , .		6
30	Multi-agent approach based on a design process for the optimization of mechatronic systems. Mechanics and Industry, 2017, 18, 507.	0.5	6
31	Analytical approach for the integrated preliminary analysis of mechatronic systems subjected to vibration. , 2014, , .		5
32	Agent-based approach for collaborative distributed mechatronic design. , 2014, , .		5
33	Conceptual design decision support of a mechatronic system using analytical approach with Modelica. Mechanics and Industry, 2018, 19, 103.	0.5	5
34	Mechatronic system design with manufacturing constraints using set-based concurrent engineering. , 2018, , .		5
35	Development of Biomimetic Soft Underwater Robot. Transactions of the Society of Instrument and Control Engineers, 2019, 55, 252-259.	0.1	5
36	Multidisciplinary Optimization of Mechatronic Systems: Application to an Electric Vehicle. Lecture Notes in Mechanical Engineering, 2014, , 1-14.	0.3	5

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37	System approach to the pre-design of electric propulsion systems for road vehicles. , 2015, , .		3
38	Systems engineering analysis approach based on interoperability for reconfigurable manufacturing systems. , 2016, , .		3
39	The usage of a system engineering approach for integrating machining constraints in the upstream design stage. , 2017, , .		3
40	Systems engineering approach for the conjoint design of mechatronic products and their manufacturing systems. , 2018, , .		3
41	A SysML profile for mechanical assembly. , 2020, , .		3
42	A CAD - System engineering interoperability by Enriching CAD database with functional information. , 2021, , .		3
43	A Top Down Approach to Ensure the Continuity of the Different Design Levels of Swarm Robots. , 2021, , .		3
44	A CADDEX tool for CAD and CAE integration. , 2021, , .		3
45	RFLP Approach in the Designing of Power-Trains for Road Electric Vehicles. Applied Condition Monitoring, 2015, , 249-258.	0.4	3
46	CAD-MBSE Interoperability for the Checking of Design Requirements Based on Assemblability Indicators. Applied Sciences (Switzerland), 2022, 12, 566.	1.3	3
47	Parametric compact modelling of dynamical systems using meshfree method with multi-port technique. International Journal of Dynamical Systems and Differential Equations, 2015, 5, 206.	0.2	2
48	Needs for a 3D enriched ontology for mechatronic systems design. , 2015, , .		2
49	Systems engineering approach for eco-comparison among power-train configurations of hybrid bus. , 2016, , .		2
50	Involving Mechatronic Students in Business Innovation using Project-Based Learning: a case-study. , 2019, , .		2
51	Collaboration and multidisciplinary design optimization for mechatronic systems. , 2019, , .		2
52	Virtual Design Office: Proposition of Problem- and Project-Based Learning Solution in the COVID-19 Era and Beyond. , 2021, , .		2
53	Soft Underwater Robots Imitating Manta Actuated by Dielectric-Elastomer Minimum-Energy Structures. Lecture Notes in Mechanical Engineering, 2020, , 882-891.	0.3	2
54	Agent-Based Approach for the Optimal Design of Mechatronic Systems. Applied Condition Monitoring, 2015, , 189-198.	0.4	2

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55	Development of Knee Joint Mechanism with Variable Transmission and Joint Stop for Bipedal Robot Inspired by Human Structure. , 2020, , .		2
56	Consideration of the uncertainty in the dimensioning of a gearbox of a wind turbine. Journal of Theoretical and Applied Mechanics, 0, , 67-79.	0.2	2
57	PLACIS: Systems engineering through a project-based learning approach general framework, debates and achievements through an overview and a concrete example. , 2015, , .		1
58	Process integration and design optimization technologies for modelling improvement. , 2016, , .		1
59	An agent-supported approach for the collaborative design of complex systems. International Journal of Modeling, Simulation, and Scientific Computing, 2016, 07, 1642001.	0.9	1
60	Validation approach of a mechatronic system controller in upstream phase. , 2018, , .		1
61	Mathematic formulation for the generation of combined paths for mounting parts in assembly. International Journal of Advanced Manufacturing Technology, 2019, 104, 4475-4484.	1.5	1
62	Multidisciplinary design optimization using knowledge management applied to an electronic throttle. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 353-362.	0.5	1
63	Analytical Based Approach for Vibration Analysis in Modelica: Application to the Bridge Crane System. Applied Condition Monitoring, 2019, , 83-91.	0.4	1
64	Consideration of uncertainties in the preliminary design case of an electromagnetic spindle. Journal of Theoretical and Applied Mechanics, 2019, 57, 821-832.	0.2	1
65	Predesign of a flexible multibody system excited by moving load using a mechatronic system approach. Mechanics and Industry, 2020, 21, 604.	0.5	1
66	Multidisciplinary optimization of a quad-rotor by integrating multi-level models. , 2014, , .		0
67	Development of Biomimetic Soft Underwater Robot using PFC. Journal of the Robotics Society of Japan, 2015, 33, 524-530.	0.0	0
68	A holonic-based method for design process of cyber-physical reconfigurable systems. , 2016, , .		0
69	A SysML based-methodology for modelling disturbances in manufacturing systems using ADACOR holonic control architecture. , 2016, , .		0
70	Automatic generation of simulation workflows for system verification using XDSM representation. , 2017, , .		0
71	System of Systems Architectural Design of On-Demand Electric Aviation Based on Mission Analysis. , 2018, , .		0
72	CAD-MBSE interoperability for the checking of design requirements. , 2021, , .		0

#	Article	IF	Citations
73	Integrating Radial Basis Functions with Modelica for Mechatronic Design. Lecture Notes in Mechanical Engineering, 2013, , 19-25.	0.3	0
74	1A1-S03 Performance enhancement of bipedal robots : Development of the knee joint with the combination of the joint stop and the cross link with variable reduction ratio(Walking Robot). The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2014, 2014, _1A1-S03_1-_1A1-S03_4.	0.0	0
75	An Analytical Approach to Model-Based Parametric Design of Mechatronic Systems with Modelica: A Case Study. Lecture Notes in Mechanical Engineering, 2020, , 11-18.	0.3	0