

Loucas S Louca

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

585
citations

11
h-index

23
g-index

50
ext. papers

667
ext. citations

1.5
avg, IF

3.11
L-index

#	Paper	IF	Citations
44	A Robotics Perspective on Architecture: Modelling and Control of Reconfigurable Buildings. <i>Mechanisms and Machine Science</i> , 2022 , 290-297	0.3	
43	Design of a Thermoelectric Device for Power Generation through Waste Heat Recovery from Marine Internal Combustion Engines. <i>Energies</i> , 2022 , 15, 4075	3.1	0
42	Analysis and Design of a Silicide-Tetrahedrite Thermoelectric Generator Concept Suitable for Large-Scale Industrial Waste Heat Recovery. <i>Energies</i> , 2021 , 14, 5655	3.1	2
41	Energy Harvesting Technologies for Structural Health Monitoring of Airplane Components-A Review. <i>Sensors</i> , 2020 , 20,	3.8	21
40	Planar conformity of movements in 3D reaching tasks for persons with Multiple Sclerosis. <i>Human Movement Science</i> , 2018 , 62, 221-234	2.4	1
39	Simulation Based Design of a Thermoelectric Energy Harvesting Device for Aircraft Applications 2017 ,		2
38	A Frequency-Based Interpretation of Energy-Based Model Reduction of Linear Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016 , 138,	1.6	3
37	Development and Assessment of a Physiotherapy System Based on Serious Games. <i>IFMBE Proceedings</i> , 2016 , 592-595	0.2	2
36	Analysis and Passive Control of a Four-Bar Linkage for the Rehabilitation of Upper-Limb Motion 2015 ,		3
35	Finite Segment Model Complexity of an Euler-Bernoulli Beam. <i>IFAC-PapersOnLine</i> , 2015 , 48, 334-340	0.7	2
34	Modal analysis reduction of multi-body systems with generic damping. <i>Journal of Computational Science</i> , 2014 , 5, 415-426	3.4	3
33	Power Conserving Bond Graph Based Modal Representations and Model Reduction of Lumped Parameter Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136,	1.6	4
32	Energy-Based Model Reduction Methodology for Automated Modeling. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132,	1.6	13
31	Extension and application of an algorithm for systematic identification of weak coupling and partitions in dynamic system models. <i>Simulation Modelling Practice and Theory</i> , 2009 , 17, 271-292	3.9	5
30	A Review of Proper Modeling Techniques. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2008 , 130,	1.6	44
29	2008 ,		1
28	Systematic Assessment of Rigid Internal Combustion Engine Dynamic Coupling. <i>Journal of Engineering for Gas Turbines and Power</i> , 2008 , 130,	1.7	8

27	Using the Milliken Moment Method and dynamic simulation to evaluate vehicle stability and controllability. <i>International Journal of Vehicle Design</i> , 2008 , 48, 132	2.4	14
26	Upper Limb Assessment of People With Multiple Sclerosis With the Use of a Haptic Nine-Hole Peg-Board Test 2008 ,		5
25	Design and Development of a Haptic Peg-Board Exercise for the Rehabilitation of People with Multiple Sclerosis 2007 ,		3
24	A Review of Proper Modeling Techniques 2007 , 1533		2
23	Systematic Identification of Decoupling in Dynamic System Models. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 503-513	1.6	11
22	Model Reduction of Modal Representations 2006 , 1065		1
21	Modelling and reduction techniques for studies of integrated hybrid vehicle systems. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2006 , 12, 203-218	1	8
20	Implementing the Milliken Moment Method using Controlled Dynamic Simulation 2005 ,		2
19	Design Under Uncertainty and Assessment of Performance Reliability of a Dual-Use Medium Truck with Hydraulic-Hybrid Powertrain and Fuel Cell Auxiliary Power Unit 2005 ,		5
18	A Modular Modeling Approach for the Design of Reconfigurable Machine Tools 2004 , 393		4
17	Fuel Cell APU for Silent Watch and Mild Electrification of a Medium Tactical Truck 2004 ,		10
16	Combined optimisation of design and power management of the hydraulic hybrid propulsion system for the 6 ? 6 medium truck. <i>International Journal of Heavy Vehicle Systems</i> , 2004 , 11, 372	0.5	100
15	Using the Milliken Moment Method and Dynamic Simulation to Evaluate Vehicle Stability and Controllability 2004 , 173		4
14	Simulation-based optimal design of heavy trucks by model-based decomposition: an extensive analytical target cascading case study. <i>International Journal of Heavy Vehicle Systems</i> , 2004 , 11, 403	0.5	31
13	Generating proper dynamic models for truck mobility and handling. <i>International Journal of Heavy Vehicle Systems</i> , 2004 , 11, 209	0.5	18
12	Modelling and control of a medium-duty hybrid electric truck. <i>International Journal of Heavy Vehicle Systems</i> , 2004 , 11, 349	0.5	37
11	Systematic Model Decoupling Through Assessment of Power-Conserving Constraints: An Engine Dynamics Case Study 2004 ,		2
10	An Algorithm for the Selection of Physical System Model Order Based on Desired State Accuracy and Computational Efficiency 2003 , 891		8

9	Analytical Target Cascading for the Design of an Advanced Technology Heavy Truck 2002 , 3		3
8	A Model Accuracy and Validation Algorithm 2002 , 573		10
7	Target cascading in vehicle redesign: a class VI truck study. <i>International Journal of Vehicle Design</i> , 2002 , 29, 199	2.4	85
6	Ideal physical element representation from reduced bond graphs. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2002 , 216, 73-83	1	7
5	Integrated, Feed-Forward Hybrid Electric Vehicle Simulation in SIMULINK and its Use for Power Management Studies 2001 ,		45
4	Design of an Advanced Heavy Tactical Truck: A Target Cascading Case Study 2001 ,		10
3	Validation and Use of SIMULINK Integrated, High Fidelity, Engine-In-Vehicle Simulation of the International Class VI Truck 2000 ,		29
2	Integration and Use of Diesel Engine, Driveline and Vehicle Dynamics Models for Heavy Duty Truck Simulation 1999 ,		11
1	A Physical-Based Model Reduction Metric with an Application to Vehicle Dynamics. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 585-590		5