Loucas S Louca

List of Publications by Year
in descending order

| 50 papers | 825 citations | 840119 11 h-index | 642321 23 g-index |

| 50 all docs | 50 docs citations | 50 times ranked | 475 citing authors |

#	ARTICLE	IF	CITATIONS
1	Combined optimisation of design and power management of the hydraulic hybrid propulsion system for the 6 ? 6 medium truck. International Journal of Heavy Vehicle Systems, 2004, 11, 372.	0.1	121
2	Target cascading in vehicle redesign: a class VI truck study. International Journal of Vehicle Design, 2002, 29, 199.	0.1	108
3	Integrated, Feed-Forward Hybrid Electric Vehicle Simulation in SIMULINK and its Use for Power Management Studies. , 0, , .		86
4	A Review of Proper Modeling Techniques. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2008, 130, .	0.9	50
5	Modelling and control of a medium-duty hybrid electric truck. International Journal of Heavy Vehicle Systems, 2004, 11, 349.	0.1	48
6	Validation and Use of SIMULINK Integrated, High Fidelity, Engine-In-Vehicle Simulation of the International Class VI Truck. , 2000, , .		47
7	Energy Harvesting Technologies for Structural Health Monitoring of Airplane Componentsâ€"A Review. Sensors, 2020, 20, 6685.	2.1	45
8	Simulation-based optimal design of heavy trucks by model-based decomposition: an extensive analytical target cascading case study. International Journal of Heavy Vehicle Systems, 2004, 11, 403.	0.1	41
9	Generating proper dynamic models for truck mobility and handling. International Journal of Heavy Vehicle Systems, 2004, 11, 209.	0.1	22
10	Using the Milliken Moment Method and dynamic simulation to evaluate vehicle stability and controllability. International Journal of Vehicle Design, 2008, 48, 132.	0.1	19
11	Design of an Advanced Heavy Tactical Truck: A Target Cascading Case Study. , 2001, , .		18
12	Energy-Based Model Reduction Methodology for Automated Modeling. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	18
13	Integration and Use of Diesel Engine, Driveline and Vehicle Dynamics Models for Heavy Duty Truck Simulation. , 1999, , .		16
14	Systematic Identification of Decoupling in Dynamic System Models. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 503-513.	0.9	16
15	A Model Accuracy and Validation Algorithm. , 2002, , 573.		15
16	Fuel Cell APU for Silent Watch and Mild Electrification of a Medium Tactical Truck. , 0, , .		15
17	A Physical-Based Model Reduction Metric with an Application to Vehicle Dynamics. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 585-590.	0.4	14
18	Ideal physical element representation from reduced bond graphs. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2002, 216, 73-83.	0.7	11

#	Article	IF	Citations
19	An Algorithm for the Selection of Physical System Model Order Based on Desired State Accuracy and Computational Efficiency. , 2003, , 891.		10
20	Modelling and reduction techniques for studies of integrated hybrid vehicle systems. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 203-218.	1.4	9
21	Systematic Assessment of Rigid Internal Combustion Engine Dynamic Coupling. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	0.5	9
22	Analysis and Design of a Silicide-Tetrahedrite Thermoelectric Generator Concept Suitable for Large-Scale Industrial Waste Heat Recovery. Energies, 2021, 14, 5655.	1.6	8
23	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, , .		7
24	Analytical Target Cascading for the Design of an Advanced Technology Heavy Truck. , 2002, , 3.		6
25	Extension and application of an algorithm for systematic identification of weak coupling and partitions in dynamic system models. Simulation Modelling Practice and Theory, 2009, 17, 271-292.	2.2	6
26	A Modular Modeling Approach for the Design of Reconfigurable Machine Tools. , 2004, , 393.		5
27	Design and Development of a Haptic Peg-Board Exercise for the Rehabilitation of People with Multiple Sclerosis. , 2007, , .		5
28	Upper Limb Assessment of People With Multiple Sclerosis With the Use of a Haptic Nine-Hole Peg-Board Test. , 2008, , .		5
29	Using the Milliken Moment Method and Dynamic Simulation to Evaluate Vehicle Stability and Controllability. , 2004, , 173.		4
30	Power Conserving Bond Graph Based Modal Representations and Model Reduction of Lumped Parameter Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	4
31	Analysis and Passive Control of a Four-Bar Linkage for the Rehabilitation of Upper-Limb Motion. , 2015, , .		4
32	Development and Assessment of a Physiotherapy System Based on Serious Games. IFMBE Proceedings, 2016, , 592-595.	0.2	4
33	A Review of Proper Modeling Techniques. , 2007, , 1533.		3
34	Modal analysis reduction of multi-body systems with generic damping. Journal of Computational Science, 2014, 5, 415-426.	1.5	3
35	A Frequency-Based Interpretation of Energy-Based Model Reduction of Linear Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	3
36	Simulation Based Design of a Thermoelectric Energy Harvesting Device for Aircraft Applications. , 2017, , .		3

#	Article	IF	Citations
37	Design of a Thermoelectric Device for Power Generation through Waste Heat Recovery from Marine Internal Combustion Engines. Energies, 2022, 15, 4075.	1.6	3
38	Implementing the Milliken Moment Method using Controlled Dynamic Simulation. , 2005, , .		2
39	Model Reduction of Modal Representations. , 2006, , 1065.		2
40	Identification of kinematic traits in 3d reaching tasks with the use of a haptic nine-hole peg-board test: Comparison between healthy people and people with Multiple Sclerosis. , 2008, , .		2
41	Finite Segment Model Complexity of an Euler-Bernoulli Beam. IFAC-PapersOnLine, 2015, 48, 334-340.	0.5	2
42	Systematic Model Decoupling Through Assessment of Power-Conserving Constraints: An Engine Dynamics Case Study. , 2004, , .		2
43	Planar conformity of movements in 3D reaching tasks for persons with Multiple Sclerosis. Human Movement Science, 2018, 62, 221-234.	0.6	1
44	Determining Model Accuracy as a Function of Inputs and System Parameters. , 2004, , .		1
45	Upper Limb Motion Profile During Small to Medium Time-Limited Reaching Tasks in a VR Based Robotic Training Environment. , 2007, , .		1
46	A Robotics Perspective on Architecture: Modelling and Control of Reconfigurable Buildings. Mechanisms and Machine Science, 2022, , 290-297.	0.3	1
47	Vehicle Model Robustness: A Case Study of the FMTV Military Truck Model. , 0, , .		0
48	Physical System Modeling. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, .	0.9	0
49	Robotic Rehabilitation of People With Multiple Sclerosis With the Use of a Haptic Nine-Hole Pegboard Test. , 2012, , .		0
50	Evaluation Metrics of Upper Extremities for People With Neurological Disorders: An Energy Based Approach. , 2017, , .		0