

Eric Bideaux

List of Publications by Year in descending order

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54
papers

700
citations

932766

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h-index

642321

23
g-index

56
all docs

56
docs citations

56
times ranked

758
citing authors

#	ARTICLE	IF	CITATIONS
1	Trajectory optimization for eco-driving taking into account traffic constraints. Transportation Research, Part D: Transport and Environment, 2013, 18, 55-61.	3.2	106
2	Eco-driving: An economic or ecologic driving style?. Transportation Research Part C: Emerging Technologies, 2014, 38, 110-121.	3.9	96
3	Vehicle trajectory optimization for application in ECO-driving. , 2011, , .		80
4	Control of PEMFC system air group using differential flatness approach: Validation by a dynamic fuel cell system model. Applied Energy, 2014, 113, 219-229.	5.1	58
5	Thermal Network Model of Supercapacitors Stack. IEEE Transactions on Industrial Electronics, 2012, 59, 979-987.	5.2	56
6	Sliding mode observer for proton exchange membrane fuel cell: automotive application. Journal of Power Sources, 2018, 388, 71-77.	4.0	30
7	Influence of the process design on the control strategy: application in electropneumatic field. Control Engineering Practice, 2002, 10, 727-735.	3.2	27
8	Drag reduction by pulsed jets on strongly unstructured wake: towards the square back control. International Journal of Aerodynamics, 2011, 1, 282.	0.1	22
9	Control by state observer of PEMFC anodic purges in dead-end operating mode. IFAC-PapersOnLine, 2015, 48, 237-243.	0.5	18
10	Electropneumatic Cylinder Backstepping Position Controller Design With Real-Time Closed-Loop Stiffness and Damping Tuning. IEEE Transactions on Control Systems Technology, 2016, 24, 541-552.	3.2	18
11	Driving Style Modelling for Eco-driving Applications. IFAC-PapersOnLine, 2017, 50, 13866-13871.	0.5	18
12	Vehicle trajectory optimization for hybrid vehicles taking into account battery state-of-charge. , 2012, , .		15
13	Non-linear position control of a pneumatic actuator with closed-loop stiffness and damping tuning. , 2013, , .		13
14	Combinatorial approach for sizing and optimal energy management of HEV including durability constraints. , 2015, , .		12
15	Optimal control problem in bond graph formalism. Simulation Modelling Practice and Theory, 2009, 17, 240-256.	2.2	9
16	CHARACTERIZATION AND MODELING OF A PROPORTIONAL VALUE FOR CONTROL SYNTHESIS. Proceedings of the JFPS International Symposium on Fluid Power, 2005, 2005, 771-776.	0.1	8
17	Mechatronic bond graph modelling of an automotive vehicle. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 189-202.	1.4	8
18	A Smart Sensor to Evaluate Visual Comfort of Daylight into Buildings. International Journal of Optomechatronics, 2008, 2, 413-434.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Game theoretic approach for electrified auxiliary management in high voltage network of HEV/PHEV. , 2014, , .		7
20	Flatness-Based Control of a Two Degrees-of-Freedom Platform With Pneumatic Artificial Muscles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	7
21	Equilibrium set investigation using bicausality. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 127-140.	1.4	6
22	Model Predictive Control Dedicated to an Electrified Auxiliary in HEV/PHEV. Applied Mechanics and Materials, 2014, 532, 50-57.	0.2	6
23	Piston position estimation for an electro-pneumatic actuator at standstill. Control Engineering Practice, 2015, 41, 176-185.	3.2	6
24	Robustness Study on the Model-Free Control and the Control with Restricted Model of a High Performance Electro-Hydraulic System. , 2013, , .		6
25	Trajectory optimisation for eco-driving - an experimentally verified optimisation method. International Journal of Vehicle Systems Modelling and Testing, 2013, 8, 295.	0.1	5
26	Robust Estimator Design for Control of Electropneumatic System. IETE Journal of Research, 2018, 64, 689-701.	1.8	5
27	Control of visual conditions for open-plan offices. Mechatronics, 2011, 21, 581-593.	2.0	4
28	Impact of Supercapacitor Ageing Model on Optimal Sizing and Control of a HEV using Combinatorial Optimization. IFAC-PapersOnLine, 2015, 48, 403-410.	0.5	4
29	Improving performance specifications of internal combustion engine dedicated to plug-in hybrid electric vehicles based on coupled optimization methodology. Transactions of the Institute of Measurement and Control, 0, , 014233122110296.	1.1	4
30	USING INVERSE MODELS FOR DETERMINING ORIFICES MASS FLOW RATE CHARACTERISTICS. Proceedings of the JFPS International Symposium on Fluid Power, 2005, 2005, 380-385.	0.1	3
31	Experimental Analysis of Air Jets for Sorting Applications. , 2014, , .		3
32	Cost Optimization for Plug-In Integration in a Hybrid Electric Mini-Excavator with Mixed-Integer Linear Programming. , 2015, , .		3
33	Electro-thermal sizing of supercapacitor stack for an electrical bus: Bond graph approach. , 2015, , .		3
34	Eco-driving: potential fuel economy for post-manufactured hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2016, 8, 321.	0.2	3
35	Fuel Cell Management System: PEMFC Lifetime Optimization by Model Based Approach. ECS Transactions, 2018, 86, 25-35.	0.3	3
36	Consideration of glare from daylight in the control of the luminous atmosphere in buildings. , 2011, , .		2

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37	Hybrid Electric System for an Hydrogen Fuel Cell Vehicle and its Energy Management. , 0, , .		2
38	Reynolds numberâ€“dependent mass flow rate calculation for pneumatic pipes. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 419-428.	0.7	2
39	System design using an inverse approach Application to the hybrid vehicle powertrain. Journal European Des Systemes Automatises, 2006, 40, 269-290.	0.3	2
40	Fast switching pneumatic valves: experimental bench for flow and pulsed air jet characterizations. , 2013, , .		2
41	Eco-driving: potential fuel economy for post-manufactured hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2016, 8, 321.	0.2	2
42	Interest and method to evaluate the evolution of the DC bus voltage in a hybrid system during the preliminary design by optimization. , 2021, , .		2
43	Bond Graph model of the intermediate block in a hydraulic control system. , 2011, , .		1
44	Flatness control strategy for the air subsystem of a hydrogen fuel cell system. , 2013, , .		1
45	Heavy Duty Vehicle Cooling System Auxiliary Load Management Control: Evaluating the Maximum Gain of Implementing an Advanced Control Strategy. , 2014, , .		1
46	A Complete Model of a Two Degree of Freedom Platform Actuated by Three Pneumatic Muscles Elaborated for Control Synthesis. , 2016, , .		1
47	On Nonlinear Robust Adaptative Control: Application on Electro-Hydraulic Valve System. Studies in Computational Intelligence, 2016, , 575-594.	0.7	1
48	Dynamic Effect of the Intermediate Block in a Hydraulic Control System. Journal of Mechanical Engineering and Automation, 2012, 2, 184-193.	0.5	1
49	Design of an actuating system using Inverse bond graph methodology: Application of FEM to a tow-links flexible manipulator. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
50	Determination of Essential Orders From a Bond Graph Model. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	0
51	Heavy Duty Vehicle Cooling System Auxiliary Load Management Control: An Application of Linear Control Strategy (MIMO and SISO). , 2014, , .		0
52	Bond Graph Modelling and Energy Flow Analysis of a Reach Stacker. , 2014, , .		0
53	Combined Kinetic and Potential Energy Recovery Solution Applied to a Reach Stacker. , 2016, , .		0
54	Ecodriving. From processing the ideal speed profile to its use during driving activity. European Journal of Electrical Engineering, 2014, 17, 397-418.	1.1	0