Eric Bideaux

List of Publications by Year
in descending order

54 papers	700 citations	932766	642321
		10 h-index	23 g-index

| 56 all docs | 56 docs citations | 56 times ranked | 758 citing authors |

#	Article	IF	Citations
1	Interest and method to evaluate the evolution of the DC bus voltage in a hybrid system during the preliminary design by optimization. , 2021, , .		2
2	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
3	Sliding mode observer for proton exchange membrane fuel cell: automotive application. Journal of Power Sources, 2018, 388, 71-77.	4.0	30
4	Robust Estimator Design for Control of Electropneumatic System. IETE Journal of Research, 2018, 64, 689-701.	1.8	5
5	Fuel Cell Management System: PEMFC Lifetime Optimization by Model Based Approach. ECS Transactions, 2018, 86, 25-35.	0.3	3
6	Driving Style Modelling for Eco-driving Applications. IFAC-PapersOnLine, 2017, 50, 13866-13871.	0.5	18
7	Eco-driving: potential fuel economy for post-manufactured hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2016, 8, 321.	0.2	3
8	A Complete Model of a Two Degree of Freedom Platform Actuated by Three Pneumatic Muscles Elaborated for Control Synthesis. , 2016, , .		1
9	Combined Kinetic and Potential Energy Recovery Solution Applied to a Reach Stacker. , 2016, , .		0
10	On Nonlinear Robust Adaptative Control: Application on Electro-Hydraulic Valve System. Studies in Computational Intelligence, 2016, , 575-594.	0.7	1
11	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
12	Eco-driving: potential fuel economy for post-manufactured hybrid vehicles. International Journal of Electric and Hybrid Vehicles, 2016, 8, 321.	0.2	2
13	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
14	Control by state observer of PEMFC anodic purges in dead-end operating mode. IFAC-PapersOnLine, 2015, 48, 237-243.	0.5	18
15	Cost Optimization for Plug-In Integration in a Hybrid Electric Mini-Excavator with Mixed-Integer Linear Programming. , 2015, , .		3
16	Electro-thermal sizing of supercapacitor stack for an electrical bus: Bond graph approach. , 2015, , .		3
17	Combinatorial approach for sizing and optimal energy management of HEV including durability constraints. , 2015, , .		12
18	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

#	Article	IF	Citations
19	Piston position estimation for an electro-pneumatic actuator at standstill. Control Engineering Practice, 2015, 41, 176-185.	3.2	6
20	Heavy Duty Vehicle Cooling System Auxiliary Load Management Control: Evaluating the Maximum Gain of Implementing an Advanced Control Strategy. , 2014, , .		1
21	Heavy Duty Vehicle Cooling System Auxiliary Load Management Control: An Application of Linear Control Strategy (MIMO and SISO). , 2014, , .		0
22	Bond Graph Modelling and Energy Flow Analysis of a Reach Stacker. , 2014, , .		0
23	Model Predictive Control Dedicated to an Electrified Auxiliary in HEV/PHEV. Applied Mechanics and Materials, 2014, 532, 50-57.	0.2	6
24	Game theoretic approach for electrified auxiliary management in high voltage network of HEV/PHEV. , 2014, , .		7
25	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
26	Eco-driving: An economic or ecologic driving style?. Transportation Research Part C: Emerging Technologies, 2014, 38, 110-121.	3.9	96
27	Experimental Analysis of Air Jets for Sorting Applications. , 2014, , .		3
28	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
29	Trajectory optimization for eco-driving taking into account traffic constraints. Transportation Research, Part D: Transport and Environment, 2013, 18, 55-61.	3.2	106
30	Flatness control strategy for the air subsystem of a hydrogen fuel cell system. , 2013, , .		1
31	Trajectory optimisation for eco-driving - an experimentally verified optimisation method. International Journal of Vehicle Systems Modelling and Testing, 2013, 8, 295.	0.1	5
32	Non-linear position control of a pneumatic actuator with closed-loop stiffness and damping tuning. , 2013, , .		13
33	Robustness Study on the Model-Free Control and the Control with Restricted Model of a High Performance Electro-Hydraulic System. , 2013, , .		6
34	Fast switching pneumatic valves: experimental bench for flow and pulsed air jet characterizations. , 2013, , .		2
35	Vehicle trajectory optimization for hybrid vehicles taking into account battery state-of-charge. , 2012, , .		15
36	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

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37	Thermal Network Model of Supercapacitors Stack. IEEE Transactions on Industrial Electronics, 2012, 59, 979-987.	5.2	56
38	Dynamic Effect of the Intermediate Block in a Hydraulic Control System. Journal of Mechanical Engineering and Automation, 2012, 2, 184-193.	0.5	1
39	Bond Graph model of the intermediate block in a hydraulic control system. , 2011, , .		1
40	Vehicle trajectory optimization for application in ECO-driving. , 2011, , .		80
41	Consideration of glare from daylight in the control of the luminous atmosphere in buildings. , 2011, , .		2
42	Drag reduction by pulsed jets on strongly unstructured wake: towards the square back control. International Journal of Aerodynamics, 2011, 1, 282.	0.1	22
43	Control of visual conditions for open-plan offices. Mechatronics, 2011, 21, 581-593.	2.0	4
44	Optimal control problem in bond graph formalism. Simulation Modelling Practice and Theory, 2009, 17, 240-256.	2.2	9
45	A Smart Sensor to Evaluate Visual Comfort of Daylight into Buildings. International Journal of Optomechatronics, 2008, 2, 413-434.	3.3	8
46	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
47	Mechatronic bond graph modelling of an automotive vehicle. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 189-202.	1.4	8
48	Equilibrium set investigation using bicausality. Mathematical and Computer Modelling of Dynamical Systems, 2006, 12, 127-140.	1.4	6
49	System design using an inverse approach Application to the hybrid vehicle powertrain. Journal Europeen Des Systemes Automatises, 2006, 40, 269-290.	0.3	2
50	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
51	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
52	Influence of the process design on the control strategy: application in electropneumatic field. Control Engineering Practice, 2002, 10, 727-735.	3.2	27
53	Hybrid Electric System for an Hydrogen Fuel Cell Vehicle and its Energy Management. , 0, , .		2
54	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