

Melih Cakmakci

List of Publications by Year in descending order

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41
papers

316
citations

1478280

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h-index

1281743

11
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43
all docs

43
docs citations

43
times ranked

239
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the dimensional accuracy of micro parts 3D printed with projection-based continuous vat photopolymerization using a model-based grayscale optimization method. Additive Manufacturing, 2022, 57, 102954.	1.7	7
2	Smart composites with tunable stress-strain curves. Computational Mechanics, 2020, 65, 375-394.	2.2	3
3	An Extremum Seeking Estimator Design and Its Application to Monitoring Unbalanced Mass Dynamics. , 2020, , .		0
4	Planar motion controller design for a modular mechatronic device with heading compensation. Mechatronics, 2019, 62, 102257.	2.0	3
5	Adaptive Control Allocation with Communication Delay for In-Wheel Propulsion Electric Vehicles. IFAC-PapersOnLine, 2019, 52, 157-162.	0.5	3
6	A Fault Tolerant Vehicle Stability Control Using Adaptive Control Allocation. , 2018, , .		5
7	Development of a Cross-Coupled Robust Controller for a Multi-Axis Micromachining System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	2
8	Modeling and cross coupling controller development for a 6DOF laser micro-machining system. , 2017, , .		0
9	Design and analysis of a modular learning based cross-coupled control algorithm for multi-axis precision positioning systems. International Journal of Control, Automation and Systems, 2016, 14, 272-281.	1.6	12
10	Development of an iterative learning controller for polymer based micro-stereolithography prototyping systems. , 2016, , .		6
11	Fabrication of Polymer Micro Needles for Transdermal Drug Delivery System Using DLP Based Projection Stereo-lithography. Procedia CIRP, 2016, 42, 87-90.	1.0	29
12	Concurrent Design of Energy Management and Vehicle Traction Supervisory Control Algorithms for Parallel Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2016, 65, 555-565.	3.9	15
13	Mechanical design and position control of a modular mechatronic device (MechaCell). , 2015, , .		5
14	Mathematical Model for Coordinated Motion of Modular Mechatronic Devices (MechaCells). , 2015, , .		2
15	Development and Validation of an Adaptive Method to Generate High-Resolution Quadrature Encoder Signals. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	0.9	13
16	Concurrent design of energy management and vehicle stability algorithms for a parallel hybrid vehicle using Dynamic Programming. , 2012, , .		2
17	Development of a supervisory controller for residential energy management problems. , 2012, , .		1
18	Adaptive Correction and Look-Up Table Based Interpolation of Quadrature Encoder Signals. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	Learning Based Cross-Coupled Control for Multi-Axis High Precision Positioning Systems. , 2012, , .		6
20	Swappable Distributed MIMO Controller for a VCT Engine. IEEE Transactions on Control Systems Technology, 2011, 19, 1168-1177.	3.2	12
21	Model-in-the-loop development for fuel cell vehicle. , 2011, , .		5
22	Modular discrete optimal MIMO controller for a VCT Engine. , 2009, , .		7
23	Throttle actuator swapping modularity design for idle speed control. , 2009, , .		6
24	Improving Component-Swapping Modularity Using Bidirectional Communication in Networked Control Systems. IEEE/ASME Transactions on Mechatronics, 2009, 14, 307-316.	3.7	20
25	Combined Component Swapping Modularity for a VCT Engine Controller. , 2009, , .		1
26	Vehicle Stability Control. , 0, , 257-271.		1
27	Review of Engine Modeling. , 0, , 33-53.		0
28	Review of Vehicle Dynamics. , 0, , 54-92.		0
29	Human Factors and Driver Modeling. , 0, , 93-116.		0
30	Control of Spark Timing. , 0, , 124-125.		0
31	Idle-Speed Control. , 0, , 126-130.		0
32	Modeling and Control of Fuel Cells for Vehicles. , 0, , 187-210.		0
33	Cruise and Headway Control. , 0, , 213-231.		0
34	Antilock Brake and Traction-Control Systems. , 0, , 232-256.		0
35	Four-Wheel Steering. , 0, , 272-286.		0
36	Active Suspensions. , 0, , 287-306.		1

#	ARTICLE	IF	CITATIONS
37	Overview of Intelligent Transportation Systems. , 0, , 309-321.		2
38	Preventing Collisions. , 0, , 322-331.		0
39	Longitudinal Motion Control and Platoons. , 0, , 332-347.		0
40	Automated Steering and Lateral Control. , 0, , 348-360.		0
41	Automotive Control-System Design Process. , 0, , 21-32.		0