

Changsun Ahn

List of Publications by Year in descending order

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48
papers

1,004
citations

566801

15
h-index

476904

29
g-index

48
all docs

48
docs citations

48
times ranked

1041
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal decentralized charging control algorithm for electrified vehicles connected to smart grid. Journal of Power Sources, 2011, 196, 10369-10379.	4.0	181
2	Robust Estimation of Road Frictional Coefficient. IEEE Transactions on Control Systems Technology, 2013, 21, 1-13.	3.2	108
3	Robust estimation of road friction coefficient using lateral and longitudinal vehicle dynamics. Vehicle System Dynamics, 2012, 50, 961-985.	2.2	73
4	Decentralized Voltage Control to Minimize Distribution Power Loss of Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1297-1304.	6.2	70
5	Coupling Between Component Sizing and Regulation Capability in Microgrids. IEEE Transactions on Smart Grid, 2013, 4, 1576-1585.	6.2	62
6	Estimation of vehicle sideslip angle and tire-road friction coefficient based on magnetometer with GPS. International Journal of Automotive Technology, 2016, 17, 427-435.	0.7	55
7	Terminal sliding mode control of automated car-following system without reliance on longitudinal acceleration information. Mechatronics, 2015, 30, 327-337.	2.0	41
8	Model Predictive Control for Evasive Steering of an Autonomous Vehicle. International Journal of Automotive Technology, 2019, 20, 1033-1042.	0.7	33
9	Computationally Efficient Stochastic Model Predictive Controller for Battery Thermal Management of Electric Vehicle. IEEE Transactions on Vehicular Technology, 2020, 69, 8407-8419.	3.9	32
10	Impact of controlled plug-in EVs on microgrids: A military microgrid example. , 2011, , .		31
11	Mechanism of vehicular periodic operation for optimal fuel economy in free-driving scenarios. IET Intelligent Transport Systems, 2015, 9, 306-313.	1.7	29
12	Decentralized and Real-Time Power Dispatch Control for an Islanded Microgrid Supported by Distributed Power Sources. Energies, 2013, 6, 6439-6454.	1.6	26
13	Power Management Controller for a Hybrid Electric Vehicle With Predicted Future Acceleration. IEEE Transactions on Vehicular Technology, 2019, 68, 10477-10488.	3.9	20
14	Estimation of road friction for enhanced active safety systems: Algebraic approach. , 2009, , .		18
15	Decentralized charging algorithm for electrified vehicles connected to smart grid. , 2011, , .		18
16	Real-Time Speed Trajectory Planning for Minimum Fuel Consumption of a Ground Vehicle. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2324-2338.	4.7	17
17	Model Predictive Control With Stochastically Approximated Cost-to-Go for Battery Cooling System of Electric Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 4312-4323.	3.9	17
18	Estimation of road friction for enhanced active safety systems: Dynamic approach. , 2009, , .		15

#	ARTICLE	IF	CITATIONS
19	Effect of Combined Use of Flipped Learning and Inquiry-Based Learning on a System Modeling and Control Course. IEEE Transactions on Education, 2018, 61, 136-142.	2.0	15
20	Design and control of a passive magnetic levitation carrier system. International Journal of Precision Engineering and Manufacturing, 2015, 16, 693-700.	1.1	14
21	IMU-Based Virtual Road Profile Sensor for Vehicle Localization. Sensors, 2018, 18, 3344.	2.1	14
22	Integration of plug-in electric vehicle charging and wind energy scheduling on electricity grid. , 2012, , .		12
23	Controller design with high fidelity model for a passive maglev tray system. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1521-1528.	1.1	11
24	Design of a Human Evaluator Model for the Ride Comfort of Vehicle on a Speed Bump Using a Neural Artistic Style Extraction. Sensors, 2019, 19, 5407.	2.1	11
25	Robust estimation of road friction coefficient. , 2011, , .		9
26	Development of Road Surface Detection Algorithm Using CycleGAN-Augmented Dataset. Sensors, 2021, 21, 7769.	2.1	9
27	Energy Management Control Strategy for Saving Trip Costs of Fuel Cell/Battery Electric Vehicles. Energies, 2022, 15, 2131.	1.6	9
28	Degradation-Conscious Equivalent Consumption Minimization Strategy for a Fuel Cell Hybrid System. Energies, 2021, 14, 3810.	1.6	8
29	MPC-BASED steering control for backward-driving vehicle using stereo vision. International Journal of Automotive Technology, 2017, 18, 933-942.	0.7	7
30	Stochastic Model Predictive Controller for Battery Thermal Management of Electric Vehicles. , 2019, , .		6
31	On the effect of DC source voltage on inverter-based frequency and voltage regulation in a military microgrid. , 2012, , .		5
32	Vehicle backward driving control with obstacle avoidance. , 2015, , .		4
33	Rapid Optimization of Battery Charging- Discharging Profiles Using SOC-SOC Rate Domain for Cruising Hybrid Vehicles. IEEE Access, 2019, 7, 87866-87872.	2.6	4
34	Model Predictive Control for Evasive Steering of Autonomous Vehicle. Lecture Notes in Mechanical Engineering, 2020, , 1252-1258.	0.3	4
35	Nonlinear tire inverse model for integrated chassis control system. , 2015, , .		3
36	Landmark Attribute Analysis for a High-Precision Landmark-Based Local Positioning System. IEEE Access, 2021, 9, 18061-18071.	2.6	3

#	ARTICLE	IF	CITATIONS
37	Ground vehicle localization based on inertial measurement signals. , 2015, , .		2
38	Design and Analysis of Osmosis-based Artificial Muscle. Journal of Bionic Engineering, 2019, 16, 56-65.	2.7	2
39	Inertial-Sensor-Based Non-Dead Reckoning Localization for Ground Vehicles. IEEE Access, 2021, 9, 132766-132778.	2.6	2
40	Direct tire force generation algorithm based on non-iterative nonlinear inverse tire model. International Journal of Automotive Technology, 2017, 18, 983-992.	0.7	1
41	Evasive Steering Control using Model Predictive Control. , 2019, , .		1
42	Position Estimator Design for a MEMS Top-Drive Electrostatic Rotary Actuator. Sensors, 2020, 20, 7081.	2.1	1
43	Design of Unscented Kalman Filter with Gated Recurrent Units-based Battery Model for SOC Estimation. Transactions of the Korean Society of Automotive Engineers, 2022, 30, 61-68.	0.1	1
44	Control design of passive magnetic levitation tray. , 2013, , .		0
45	Controller parameter optimization for passive magnetic levitation tray using Taguchi method. , 2013, , .		0
46	Ground Vehicle Localization using Road Profile Feature *. , 2020, , .		0
47	Project-based learning in a graduate course on home appliance engineering. International Journal of Electrical Engineering and Education, 0, , 002072092110134.	0.4	0
48	Scaled Experiment with Dimensional Analysis for Vehicle Lateral Dynamics Maneuver. Lecture Notes in Mechanical Engineering, 2020, , 1288-1294.	0.3	0