

Hyeongcheol Lee

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

668
citations

840585

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44
all docs

44
docs citations

44
times ranked

641
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Adaptive Fuzzy Control by Backstepping for a Class of MIMO Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2011, 19, 265-275.	6.5	134
2	New adaptive approaches to real-time estimation of vehicle sideslip angle. Control Engineering Practice, 2009, 17, 1367-1379.	3.2	108
3	Height and Leveling Control of Automotive Air Suspension System Using Sliding Mode Approach. IEEE Transactions on Vehicular Technology, 2011, 60, 2027-2041.	3.9	89
4	Mode Transition Control Using Disturbance Compensation for a Parallel Hybrid Electric Vehicle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2011, 225, 150-166.	1.1	68
5	Fault-Tolerant Control Algorithm for a Four-Corner Closed-Loop Air Suspension System. IEEE Transactions on Industrial Electronics, 2011, 58, 4866-4879.	5.2	39
6	A robust road bank angle estimation based on a proportional+integral+derivative filter. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 779-794.	1.1	27
7	Design of an Airbag Deployment Algorithm Based on Precrash Information. IEEE Transactions on Vehicular Technology, 2011, 60, 1438-1452.	3.9	25
8	A Supervisory Control Algorithm for a Series Hybrid Vehicle With Multiple Energy Sources. IEEE Transactions on Vehicular Technology, 2015, 64, 4942-4953.	3.9	22
9	Vehicle-in-the-Loop in Global Coordinates for Advanced Driver Assistance System. Applied Sciences (Switzerland), 2020, 10, 2645.	1.3	17
10	Integrated Fault Diagnosis Algorithm for Motor Sensors of In-Wheel Independent Drive Electric Vehicles. Sensors, 2016, 16, 2106.	2.1	14
11	Robust Vehicle Speed Control Using Disturbance Observer in Hybrid Electric Vehicles. International Journal of Automotive Technology, 2020, 21, 931-942.	0.7	13
12	Joint configuration for physically safe human-robot interaction of serial-chain manipulators. Mechanism and Machine Theory, 2017, 107, 246-260.	2.7	12
13	Event-Based Anomaly Detection Using a One-Class SVM for a Hybrid Electric Vehicle. IEEE Transactions on Vehicular Technology, 2022, 71, 6032-6043.	3.9	12
14	Sensitivity-Based Fault Detection and Isolation Algorithm for Road Vehicle Chassis Sensors. Sensors, 2018, 18, 2720.	2.1	10
15	Optimal Supervisory Control Strategy for a Transmission-Mounted Electric Drive Hybrid Electric Vehicle. International Journal of Automotive Technology, 2019, 20, 663-677.	0.7	8
16	Model-based fault detection and isolation for electric power steering system. , 2007, , .		7
17	Motor position control algorithm for an automated manual transmission of the agricultural tractor. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 3341-3349.	1.1	6
18	Study on TTC-based Optimal Lane Change Algorithm in Adaptive Cruise Control. Transactions of the Korean Society of Automotive Engineers, 2019, 27, 627-636.	0.1	5

#	ARTICLE	IF	CITATIONS
19	A study for improvement performance of electric brake for electric train. , 2008, , .		4
20	Battery System Modeling for a Military Electric Propulsion Vehicle with a Fault Simulation. Energies, 2013, 6, 5168-5181.	1.6	4
21	Modeling and control of Plug-In Hybrid Excavator. , 2013, , .		4
22	Advanced control strategy for electric power steering system to improve steering assist torque stability. , 2015, , .		4
23	Connection mechanism capable of genderless coupling for modular manipulator system. , 2017, , .		4
24	State-Constrained Sub-Optimal Tracking Controller for Continuous-Time Linear Time-Invariant (CT-LTI) Systems and Its Application for DC Motor Servo Systems. Applied Sciences (Switzerland), 2020, 10, 5724.	1.3	4
25	Asynchronous and synchronous load leveling compensation algorithm in airspring suspension. , 2007, , .		3
26	Coordinated control of the brake control system and the driveline control system. , 2007, , .		3
27	Joint configuration strategy for serial-chain safe manipulators. , 2014, , .		3
28	DC Motor Current Control Algorithm Using Proportional-Integral LQT with Disturbance Observer. International Journal of Automotive Technology, 2018, 19, 959-967.	0.7	3
29	Association between Second-hand Smoke Exposure and Urinary NNAL Level in Korean Adolescents. Journal of Korean Medical Science, 2021, 36, e82.	1.1	3
30	A Study on the Anomaly Detection of Engine Clutch Engagement/Disengagement Using Machine Learning for Transmission Mounted Electric Drive Type Hybrid Electric Vehicles. Applied Sciences (Switzerland), 2021, 11, 10187.	1.3	3
31	Estimating desired yaw rate and control strategy analysis on developed air ESC system for performance evaluation. , 2015, , .		2
32	Sensitivity Applied Model-Based Fault Diagnosis Algorithm for Vehicle Control System Sensors. Transactions of the Korean Society of Automotive Engineers, 2018, 26, 378-388.	0.1	2
33	Modular Vehicle In the Loop. Transactions of the Korean Society of Automotive Engineers, 2019, 27, 487-494.	0.1	2
34	Driver Friendly Adaptive Cruise Control by Driver Behavior. Transactions of the Korean Society of Automotive Engineers, 2018, 26, 416-425.	0.1	1
35	Traction Control Using a Disturbance Observer for Hybrid Electric Vehicles. International Journal of Automotive Technology, 2021, 22, 1485-1494.	0.7	1
36	Data-driven Based Accuracy Improvement for Vehicle Lateral Model. Transactions of the Korean Society of Automotive Engineers, 2022, 30, 133-142.	0.1	1

#	ARTICLE	IF	CITATIONS
37	The LSTM-based Engine Clutch Engagement/Disengagement Anomaly Detection Algorithm for P2 HEV. Transactions of the Korean Society of Automotive Engineers, 2021, 29, 1133-1146.	0.1	1
38	Sensor offset compensation for a vehicle yaw rate sensor using fuzzy logic. , 2007, , .		0
39	Development of a mathematical model of a train in the energy point of view for the international conference on control, automation and systems 2007 (ICCAS 2007). , 2007, , .		0
40	A study on a flow distribution control algorithm of a tandem pump for efficient electric excavators. , 2014, , .		0
41	Traction Control of Parallel Hybrid Vehicle Using Power Distribution. , 2017, , .		0
42	Robust Vehicle Speed Limiter Using Disturbance and Speed Observer. International Journal of Automotive Technology, 2021, 22, 1475-1483.	0.7	0
43	The Study for Equivalent Consumption Minimization Strategy Considering Drivability of Parallel HEV. , 2020, , .		0
44	Socio-Demographic Factors Affecting the Elderly's Preference for Life-Sustaining Treatment: Based on the 2017 National Survey of Older Koreans. Korean Journal of Clinical Geriatrics, 2022, 23, 36-43.	0.3	0