Hyeongcheol Lee

List of Publications by Year
in descending order

44 papers	668 citations	840585 11 h-index	580701 25 g-index
44 all docs	44 docs citations	44 times ranked	641 citing authors

#	Article	IF	Citations
1	Data-driven Based Accuracy Improvement for Vehicle Lateral Model. Transactions of the Korean Society of Automotive Engineers, 2022, 30, 133-142.	0.1	1
2	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
3	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
4	Association between Second-hand Smoke Exposure and Urinary NNAL Level in Korean Adolescents. Journal of Korean Medical Science, 2021, 36, e82.	1.1	3
5	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
6	Robust Vehicle Speed Limiter Using Disturbance and Speed Observer. International Journal of Automotive Technology, 2021, 22, 1475-1483.	0.7	0
7	Traction Control Using a Disturbance Observer for Hybrid Electric Vehicles. International Journal of Automotive Technology, 2021, 22, 1485-1494.	0.7	1
8	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
9	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
10	Robust Vehicle Speed Control Using Disturbance Observer in Hybrid Electric Vehicles. International Journal of Automotive Technology, 2020, 21, 931-942.	0.7	13
11	Vehicle-in-the-Loop in Global Coordinates for Advanced Driver Assistance System. Applied Sciences (Switzerland), 2020, 10, 2645.	1.3	17
12	The Study for Equivalent Consumption Minimization Strategy Considering Drivability of Parallel HEV. , 2020, , .		0
13	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
14	Modular Vehicle In the Loop. Transactions of the Korean Society of Automotive Engineers, 2019, 27, 487-494.	0.1	2
15	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
16	DC Motor Current Control Algorithm Using Proportional-Integral LQT with Disturbance Observer. International Journal of Automotive Technology, 2018, 19, 959-967.	0.7	3
17	Sensitivity-Based Fault Detection and Isolation Algorithm for Road Vehicle Chassis Sensors. Sensors, 2018, 18, 2720.	2.1	10
18	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

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19	Driver Friendly Adaptive Cruise Control by Driver Behavior. Transactions of the Korean Society of Automotive Engineers, 2018, 26, 416-425.	0.1	1
20	Connection mechanism capable of genderless coupling for modular manipulator system. , 2017, , .		4
21	Joint configuration for physically safe human–robot interaction of serial-chain manipulators. Mechanism and Machine Theory, 2017, 107, 246-260.	2.7	12
22	Traction Control of Parallel Hybrid Vehicle Using Power Distribution. , 2017, , .		0
23	Integrated Fault Diagnosis Algorithm for Motor Sensors of In-Wheel Independent Drive Electric Vehicles. Sensors, 2016, 16, 2106.	2.1	14
24	Estimating desired yaw rate and control strategy analysis on developed air ESC system for performance evaluation. , 2015, , .		2
25	Advanced control strategy for electric power steering system to improve steering assist torque stability. , 2015, , .		4
26	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
27	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
28	A study on a flow distribution control algorithm of a tandem pump for efficient electric excavators. , 2014, , .		0
29	Joint configuration strategy for serial-chain safe manipulators. , 2014, , .		3
30	Battery System Modeling for a Military Electric Propulsion Vehicle with a Fault Simulation. Energies, 2013, 6, 5168-5181.	1.6	4
31	Modeling and control of Plug-In Hybrid Excavator. , 2013, , .		4
32	A robust road bank angle estimation based on a proportional–integral H_∞ filter. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2012, 226, 779-794.	1.1	27
33	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
34	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
35	Design of an Airbag Deployment Algorithm Based on Precrash Information. IEEE Transactions on Vehicular Technology, 2011, 60, 1438-1452.	3.9	25
36	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

#	Article	IF	Citations
37	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
38	New adaptive approaches to real-time estimation of vehicle sideslip angle. Control Engineering Practice, 2009, 17, 1367-1379.	3.2	108
39	A study for improvement performance of electric brake for electric train. , 2008, , .		4
40	Sensor offset compensation for a vehicle yaw rate sensor using fuzzy logic. , 2007, , .		0
41	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
42	Asynchronous and synchronous load leveling compensation algorithm in airspring suspension. , 2007, , .		3
43	Model-based fault detection and isolation for electric power steering system. , 2007, , .		7
44	Coordinated control of the brake control system and the driveline control system. , 2007, , .		3