

# Kunsoo Huh

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

650  
citations

15  
h-index

21  
g-index

92  
ext. papers

811  
ext. citations

2.1  
avg, IF

4.36  
L-index

#	Paper	IF	Citations
80	A stereo vision-based obstacle detection system in vehicles. <i>Optics and Lasers in Engineering</i> , <b>2008</b> , 46, 168-178	4.6	40
79	Monitoring Cutting Forces In Turning: A Model-Based Approach. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2002</b> , 124, 26-31	3.3	33
78	Sensor Fusion Algorithm Design in Detecting Vehicles Using Laser Scanner and Stereo Vision. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2016</b> , 17, 1072-1084	6.1	32
77	Monitoring System Design for Lateral Vehicle Motion. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 1394-1403	6.8	28
76	Vehicle sideslip angle estimation using deep ensemble-based adaptive Kalman filter. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 144, 106862	7.8	23
75	Development of a Vehicle Stability Control System Using Brake-by-Wire Actuators. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2008</b> , 130,	1.6	22
74	Deep Distributional Reinforcement Learning Based High-Level Driving Policy Determination. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2019</b> , 4, 416-424	5	19
73	Development of estimation algorithms for vehicle mass and road grade. <i>International Journal of Automotive Technology</i> , <b>2013</b> , 14, 889-895	1.6	19
72	Development of algorithms for commercial vehicle mass and road grade estimation. <i>International Journal of Automotive Technology</i> , <b>2017</b> , 18, 1077-1083	1.6	18
71	Development of an electric booster system using sliding mode control for improved braking performance. <i>International Journal of Automotive Technology</i> , <b>2012</b> , 13, 1005-1011	1.6	18
70	RNN-Based Path Prediction of Obstacle Vehicles With Deep Ensemble. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 10252-10256	6.8	16
69	Development of an autonomous braking system using the predicted stopping distance. <i>International Journal of Automotive Technology</i> , <b>2014</b> , 15, 341-346	1.6	16
68	Active Steering Control Based on the Estimated Tire Forces. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2001</b> , 123, 505-511	1.6	16
67	Active steering control based on the estimated tire forces <b>1999</b> ,		16
66	Modeling and control of an electronic wedge brake. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2012</b> , 226, 2440-2455	1.3	15
65	Development of a vision-based lane detection system considering configuration aspects. <i>Optics and Lasers in Engineering</i> , <b>2005</b> , 43, 1193-1213	4.6	15
64	Using the Milliken Moment Method and dynamic simulation to evaluate vehicle stability and controllability. <i>International Journal of Vehicle Design</i> , <b>2008</b> , 48, 132	2.4	14

63	Intervention minimized semi-autonomous control using decoupled model predictive control <b>2017</b> ,		13
62	Fault-tolerant braking control with integrated EMBs and regenerative in-wheel motors. <i>International Journal of Automotive Technology</i> , <b>2016</b> , 17, 923-936	1.6	13
61	Active Front Steering for Driver Steering Comfort and Vehicle Driving Stability. <i>International Journal of Automotive Technology</i> , <b>2019</b> , 20, 589-596	1.6	12
60	Vision-based vehicle detection and tracking algorithm design. <i>Optical Engineering</i> , <b>2009</b> , 48, 127201	1.1	12
59	Robust proportional-integral Kalman filter design using a convex optimization method. <i>Journal of Mechanical Science and Technology</i> , <b>2008</b> , 22, 879-886	1.6	12
58	Road Surface Classification Using a Deep Ensemble Network with Sensor Feature Selection. <i>Sensors</i> , <b>2018</b> , 18,	3.8	12
57	Autonomous Emergency Braking Considering Road Slope and Friction Coefficient. <i>International Journal of Automotive Technology</i> , <b>2018</b> , 19, 1013-1022	1.6	12
56	Fault detection and diagnosis of the electromechanical brake based on observer and parity space. <i>International Journal of Automotive Technology</i> , <b>2012</b> , 13, 845-851	1.6	11
55	Simulation tool design for the two-axis nano stage of lithography systems. <i>Mechatronics</i> , <b>2010</b> , 20, 574-581		11
54	Track Tension Estimation in Tracked Vehicles Under Various Maneuvering Tasks. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2001</b> , 123, 179-185	1.6	11
53	Fault Detection and Estimation for Electromechanical Brake Systems Using Parity Space Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	10
52	Optimal Proportional-Integral Adaptive Observer Design for a Class of Uncertain Nonlinear Systems. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	10
51	Development of a Multi-body Dynamics Simulation Tool for Tracked Vehicles (Part II, Application to Track Tension Controller Design). <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , <b>2003</b> , 46, 550-556		10
50	Well-Conditioned Observer Design for Observer-Based Monitoring Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1995</b> , 117, 592-599	1.6	9
49	Collision detection system design using a multi-layer laser scanner for collision mitigation. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2012</b> , 226, 905-914	1.4	8
48	A Quantitative Performance Index for Observer-Based Monitoring Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1994</b> , 116, 487-497	1.6	8
47	Observer design methodology for stochastic and deterministic robustness. <i>International Journal of Control</i> , <b>2008</b> , 81, 1172-1182	1.5	7
46	Multi-Head Attention based Probabilistic Vehicle Trajectory Prediction <b>2020</b> ,		7

45	Anomaly Monitoring Framework in Lane Detection With a Generative Adversarial Network. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 1603-1615	6.1	7
44	Design and Analysis of a Regenerative Electromagnetic Brake. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	6
43	Optimal robust adaptive observer design for a class of nonlinear systems via an H-infinity approach <b>2006</b> ,		6
42	Estimating the Maximum Road Friction Coefficient with Uncertainty Using Deep Learning <b>2018</b> ,		6
41	Evaluation of Lane Keeping Assistance Controllers in HIL Simulations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 9491-9496		5
40	Development of a simulation tool for the cornering performance analysis of 6WD/6WS vehicles. <i>Journal of Mechanical Science and Technology</i> , <b>1999</b> , 13, 211-220		5
39	Development of a path planning system using mean shift algorithm for driver assistance. <i>International Journal of Automotive Technology</i> , <b>2011</b> , 12, 119-124	1.6	4
38	Development of a Unified Lane-Keeping and Collision Avoidance System for Semi-Trailer Truck. <i>IEEE Access</i> , <b>2020</b> , 8, 149751-149763	3.5	4
37	Target classification layer design via vehicle-to-vehicle communication. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2016</b> , 230, 1849-1861	1.4	3
36	Model-based sensor fault detection algorithm design for Electro-Mechanical Brake <b>2011</b> ,		3
35	A Non-Normality Measure of the Condition Number for Monitoring and Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1997</b> , 119, 217-222	1.6	3
34	Dissipative Proportional Integral Observer for a Class of Uncertain Nonlinear Systems. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
33	Unmanned Turning Force Control Based on the Spindle Drive Characteristics.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , <b>2003</b> , 46, 314-321		3
32	Track Tension Controller Design and Experimental Evaluation in Tracked Vehicles. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2004</b> , 126, 764-771	1.6	3
31	Optimal Task Sequence Planning for High Speed Robotic Assembly Using Simulated Annealing.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , <b>2000</b> , 43, 222-229		3
30	Driving and steering collision avoidance system of autonomous vehicle with model predictive control based on non-convex optimization. <i>Advances in Mechanical Engineering</i> , <b>2021</b> , 13, 168781402110276	1.2	3
29	Emergency Collision Avoidance by Steering in Critical Situations. <i>International Journal of Automotive Technology</i> , <b>2021</b> , 22, 173-184	1.6	3
28	Adaptive Cruise Controller Design Without Transitional Strategy. <i>International Journal of Automotive Technology</i> , <b>2020</b> , 21, 675-683	1.6	2

27	Estimation of the climbing angle in the presence of yawing motion. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2015</b> , 229, 1263-1275	1.4	2
26	Monitoring system design for estimating the lateral tire force <b>2002</b> ,		2
25	Cutting Force Estimation Systems Based on AC Spindle Drive.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , <b>2000</b> , 43, 230-236		2
24	A cutting force monitoring system based on AC spindle drive <b>1998</b> ,		2
23	A Quantitative Performance Index for Model-Based Monitoring Systems <b>1993</b> ,		2
22	Intention Aware Motion Planning with Model Predictive Control in Highway Merge Scenario		2
21	Robust design optimisation of adaptive cruise controller considering uncertainties of vehicle parameters and occupants. <i>Vehicle System Dynamics</i> , <b>2020</b> , 58, 987-1005	2.8	2
20	Hybrid Approach for Vehicle Trajectory Prediction Using Weighted Integration of Multiple Models. <i>IEEE Access</i> , <b>2021</b> , 9, 78715-78723	3.5	2
19	Torque vectoring system design for hybrid electric all wheel drive vehicle. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2020</b> , 234, 2680-2692	1.4	1
18	Dissipative proportional integral observer for a class of uncertain nonlinear systems. <i>Journal of Mechanical Science and Technology</i> , <b>2011</b> , 25, 1551-1555	1.6	1
17	Evaluation of discrete-time well-conditioned state observers. <i>Journal of Mechanical Science and Technology</i> , <b>1997</b> , 11, 505-512		1
16	Unmanned turning force control with selecting cutting conditions		1
15	Development of a lane departure monitoring and control system. <i>Journal of Mechanical Science and Technology</i> , <b>2005</b> , 19, 1998-2006	1.6	1
14	Discrete-Time Well-Conditioned State Observer Design and Evaluation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2001</b> , 123, 615-622	1.6	1
13	Estimation of dynamic track tension utilizing a simplified tracked vehicle model <b>2001</b> ,		1
12	Development of Vehicle Roll Rate Estimator Using Transfer Function Estimation. <i>Transactions of the Korean Society of Automotive Engineers</i> , <b>2022</b> , 30, 1-7	0.4	1
11	Target Vehicle Trajectory Prediction Algorithm Based on Model Integration. <i>Transactions of the Korean Society of Automotive Engineers</i> , <b>2020</b> , 28, 1-8	0.4	1
10	Interaction Aware Trajectory Prediction of Surrounding Vehicles with Interaction Network and Deep Ensemble <b>2020</b> ,		1

9	Rear Wheel Steering Control Algorithm for Improving Vehicle Yaw Response in High Driving Speed. <i>Transactions of the Korean Society of Automotive Engineers</i> , <b>2020</b> , 28, 453-461	0.4	1
8	A Hierarchical Motion Planning Framework for Autonomous Driving in Structured Highway Environments. <i>IEEE Access</i> , <b>2022</b> , 10, 20102-20117	3.5	1
7	An Integrated Deep Ensemble-Unscented Kalman Filter for Sideslip Angle Estimation With Sensor Filtering Network. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	0
6	Driving Style-Based Conditional Variational Autoencoder for Prediction of Ego Vehicle Trajectory. <i>IEEE Access</i> , <b>2021</b> , 9, 169348-169356	3.5	0
5	Feedback Control of MEMS Gyroscope to Achieve the Tactical-Grade Specifications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2004</b> , 37, 671-676		
4	T-2-4-1 Design of the Well-Conditioned Observer Using the Non-Normality Measure. <i>The Proceedings of the Asian Conference on Multibody Dynamics</i> , <b>2002</b> , 2002, 168-173		
3	Development of an Open-loop Side-slip Angle Estimator Using Parameter Optimization. <i>Transactions of the Korean Society of Automotive Engineers</i> , <b>2020</b> , 28, 491-498	0.4	
2	Probabilistic Vehicle Trajectory Prediction Considering Inter-vehicle Interaction Based on Multi-head Attention Architecture. <i>Transactions of the Korean Society of Automotive Engineers</i> , <b>2020</b> , 28, 645-652	0.4	
1	Robust Kalman Filter Design via Selecting Performance Indices. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , <b>2005</b> , 29, 59-66		1