Kimihiko Nakano

List of Publications by Year
in descending order

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93	1,999	304743	265206
papers	citations	22 h-index	42 g-index

94	94	94	1263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rotational energy harvesting for self-powered sensing. Joule, 2021, 5, 1074-1118.	24.0	172
2	Self-powered active vibration control using a single electric actuator. Journal of Sound and Vibration, 2003, 260, 213-235.	3.9	171
3	An application of stochastic resonance for energy harvesting in a bistable vibrating system. Journal of Sound and Vibration, 2014, 333, 2568-2587.	3.9	116
4	Combined Type Self-Powered Active Vibration Control of Truck Cabins. Vehicle System Dynamics, 2004, 41, 449-473.	3.7	93
5	A tri-stable energy harvester in rotational motion: Modeling, theoretical analyses and experiments. Journal of Sound and Vibration, 2020, 469, 115142.	3.9	80
6	Enhancing energy harvesting in low-frequency rotational motion by a quad-stable energy harvester with time-varying potential wells. Mechanical Systems and Signal Processing, 2021, 148, 107167.	8.0	80
7	Hybrid Suspension System with Skyhook Control and Energy Regeneration (Development of) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.7	74
8	Effectiveness Testing of a Piezoelectric Energy Harvester for an Automobile Wheel Using Stochastic Resonance. Sensors, 2016, 16, 1727.	3.8	62
9	Use of a Peltier chip with a newly devised local brainâ€“cooling system for neocortical seizures in the rat. Journal of Neurosurgery, 2006, 104, 150-156.	1.6	59
10	Stabilising high energy orbit oscillations by the utilisation of centrifugal effects for rotating-tyre-induced energy harvesting. Applied Physics Letters, 2018, 112, .	3.3	56
11	Biosignal Analysis to Assess Mental Stress in Automatic Driving of Trucks: Palmar Perspiration and Masseter Electromyography. Sensors, 2015, 15, 5136-5150.	3.8	55
12	The Effect of a Haptic Guidance Steering System on Fatigue-Related Driver Behavior. IEEE Transactions on Human-Machine Systems, 2017, 47, 741-748.	3.5	55
13	Greater Activity in the Frontal Cortex on Left Curves: A Vector-Based fNIRS Study of Left and Right Curve Driving. PLoS ONE, 2015, 10, e0127594.	2.5	55
14	Eye-Gaze Tracking Analysis of Driver Behavior While Interacting With Navigation Systems in an Urban Area. IEEE Transactions on Human-Machine Systems, 2016, 46, 546-556.	3.5	48
15	The benefits of an asymmetric tri-stable energy harvester in low-frequency rotational motion. Applied Physics Express, 2019, 12, 057002.	2.4	39
16	A passively self-tuning nonlinear energy harvester in rotational motion: theoretical and experimental investigation. Smart Materials and Structures, 2020, 29, 045033.	3.5	39
17	Relationship Between Gaze Behavior and Steering Performance for Driverâ€“Automation Shared Control: A Driving Simulator Study. IEEE Transactions on Intelligent Vehicles, 2019, 4, 154-166.	12.7	37
18	Effective suppression of hippocampal seizures in rats by direct hippocampal cooling with a Peltier chip. Journal of Neurosurgery, 2008, 108, 791-797.	1.6	35

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19	Study on Emergency-Avoidance Braking for the Automatic Platooning of Trucks. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1748-1757.	8.0	35
20	Road Surface Recognition Using Laser Radar for Automatic Platooning. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2800-2810.	8.0	35
21	A unified approach to optimal conditions of power harvesting using electromagnetic and piezoelectric transducers. Smart Materials and Structures, 2007, 16, 948-958.	3.5	34
22	Evaluation of the effects of inâ€vehicle traffic lights on driving performances for unsignalised intersections. IET Intelligent Transport Systems, 2017, 11, 76-83.	3.0	28
23	Time to lane change and completion prediction based on Gated Recurrent Unit Network. , 2019, , .		28
24	Self-powered active control applied to a truck cab suspension. Review of Automotive Engineering, 1999, 20, 511-516.	0.2	24
25	Theoretical modeling and experimental validation of the centrifugal softening effect for high-efficiency energy harvesting in ultralow-frequency rotational motion. Mechanical Systems and Signal Processing, 2021, 152, 107424.	8.0	24
26	Analysis of influence on driver behaviour while using inâ€vehicle traffic lights with application of headâ€up display. IET Intelligent Transport Systems, 2016, 10, 347-353.	3.0	22
27	Intention-Based Lane Changing and Lane Keeping Haptic Guidance Steering System. IEEE Transactions on Intelligent Vehicles, 2021, 6, 622-633.	12.7	22
28	On-board identification of tyre cornering stiffness using dual Kalman filter and GPS. Vehicle System Dynamics, 2015, 53, 437-448.	3.7	21
29	Development of large-scale bistable motion system for energy harvesting by application of stochastic resonance. Journal of Sound and Vibration, 2020, 473, 115213.	3.9	19
30	Combining magnet-induced nonlinearity and centrifugal softening effect to realize high-efficiency energy harvesting in ultralow-frequency rotation. Journal of Sound and Vibration, 2021, 505, 116146.	3.9	19
31	Lateral Control in Precision Docking Using RTK-GNSS/INS and LiDAR for Localization. IEEE Transactions on Intelligent Vehicles, 2021, 6, 78-87.	12.7	18
32	Design, analysis and prototyping of a magnetic energy-harvesting suspension for vehicles. Smart Materials and Structures, 2020, 29, 105034.	3.5	17
33	Feasibility of Energy Harvesting Using Stochastic Resonance Caused by Axial Periodic Force. Strojniski Vestnik/Journal of Mechanical Engineering, 2015, 60, 314-320.	1.1	16
34	Experimental validations of a magnetic energy-harvesting suspension and its potential application for self-powered sensing. Energy, 2022, 239, 122205.	8.8	15
35	Evaluation of Sternocleidomastoid Muscle Activity of a Passenger in Response to a Car's Lateral Acceleration While Slalom Driving. IEEE Transactions on Human-Machine Systems, 2013, 43, 405-415.	3.5	14
36	Anti-Rolling Suspension for an Automobile by Coupled Electromagnetic Devices. Journal of Mechanical Systems for Transportation and Logistics, 2008, 1, 43-54.	0.2	13

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37	Stabilisation of the high-energy orbit for a non-linear energy harvester with variable damping. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2003-2012.	2.1	13
38	Driver-Automation Shared Control: Modeling Driver Behavior by Taking Account of Reliance on Haptic Guidance Steering. , 2018, , .		12
39	On electrical optimisation using a Duffing-type vibrational energy harvester. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 3308-3319.	2.1	11
40	Application of Physiological Sensors for Personalization in Semi-Autonomous Driving: A Review. IEEE Sensors Journal, 2021, 21, 19662-19674.	4.7	11
41	Leukoaraiosis Significantly Worsens Driving Performance of Ordinary Older Drivers. PLoS ONE, 2014, 9, e108333.	2.5	11
42	On square-wave-driven stochastic resonance for energy harvesting in a bistable system. AIP Advances, 2014, 4, 117140.	1.3	10
43	Influence of haptic guidance on driving behaviour under degraded visual feedback conditions. IET Intelligent Transport Systems, 2018, 12, 454-462.	3.0	10
44	Stability of the Two-Wheeled Inverted Pendulum Vehicle Moved by Human Pedaling. Journal of System Design and Dynamics, 2011, 5, 389-402.	0.3	9
45	Stability of the Dynamically Stabilized Two-Wheeled Vehicle Traveling on a Rough Road. Journal of Mechanical Systems for Transportation and Logistics, 2009, 2, 78-89.	0.2	8
46	Driver Risk Perception and Physiological State During Car-Following Experiments Using a Driving Simulator. International Journal of Intelligent Transportation Systems Research, 2010, 8, 140-150.	1.1	8
47	Investigations of a Stiffness Tunable Nonlinear Vibrational Energy Harvester. International Journal of Structural Stability and Dynamics, 2014, 14, 1440023.	2.4	8
48	Safety Testing of an Improved Brake System for Automatic Platooning of Trucks. International Journal of Intelligent Transportation Systems Research, 2014, 12, 98-109.	1.1	8
49	Effect of drowsiness on mechanical arm admittance and driving performances. IET Intelligent Transport Systems, 2018, 12, 220-226.	3.0	8
50	Comfort-oriented Haptic Guidance Steering via Deep Reinforcement Learning for Individualized Lane Keeping Assist. , 2019, , .		8
51	Radiation modes and acoustic field confined near acoustic sources. Journal of the Acoustical Society of America, 2019, 146, EL299-EL305.	1.1	7
52	Design and Evaluation of a Surface Electromyography-Controlled Steering Assistance Interface. Sensors, 2019, 19, 1308.	3.8	7
53	A surface electromyography controlled steering assistance interface. Journal of Intelligent and Connected Vehicles, 2019, 2, 1-13.	7.4	7
54	Surface Electromyography-Controlled Automobile Steering Assistance. Sensors, 2020, 20, 809.	3.8	7

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55	Physical Fatigue Comparison of Eco-Driving and Normal Driving. Journal of System Design and Dynamics, 2011, 5, 994-1004.	0.3	6
56	An adaptive model predictive approach for automated vehicle control in fallback procedure based on virtual vehicle scheme. Journal of Intelligent and Connected Vehicles, 2019, 2, 67-77.	7.4	6
57	Active Vibration Control of an Elevator Car Using Two Rotary Actuators. Journal of System Design and Dynamics, 2011, 5, 155-163.	0.3	5
58	An experimental study of stochastic resonance in a bistable mechanical system. Journal of Physics: Conference Series, 2012, 382, 012024.	0.4	5
59	Modelling analysis for vibration energy harvesting excited by low-speed automobile tires. Transactions of the JSME (in Japanese), 2016, 82, 15-00645-15-00645.	0.2	5
60	Combining sustainable stochastic resonance with high-energy orbit oscillation to broaden rotational bandwidth of energy harvesting from tire. AIP Advances, 2020, 10, .	1.3	5
61	Adaptive Driver-Automation Shared Steering Control via Forearm Surface Electromyography Measurement. IEEE Sensors Journal, 2021, 21, 5444-5453.	4.7	5
62	Effect of Fixed and sEMG-Based Adaptive Shared Steering Control on Distracted Driver Behavior. Sensors, 2021, 21, 7691.	3.8	5
63	Active control of sound transmission using structural modal filters. Journal of Sound and Vibration, 2016, 381, 14-29.	3.9	4
64	Effect of Haptic Guidance Steering on Lane Following Performance by Taking Account of Driver Reliance on the Assistance System. , 2018, , .		4
65	Analysis of Driver Behaviors while Using In-Vehicle Traffic Light with Partial Deployment of V2I Communication. , 2018, , .		4
66	Active control of sound transmission into an enclosure using structural modal filters. Journal of Sound and Vibration, 2018, 431, 328-345.	3.9	4
67	The study of driverâ€™s brain activity and behaviour on DS test using fNIRS. IFAC-PapersOnLine, 2019, 51, 244-249.	0.9	4
68	Design of Longitudinal Controller for Automated Driving Bus. International Journal of Intelligent Transportation Systems Research, 2020, 18, 436-450.	1.1	4
69	DYNAMICS MODEL OF MOVABLE BODY-TYPE WAVE ENERGY CONVERTER CONSIDERING TWO DIMENSIONAL MOTIONS OF THE FLOAT. Doboku Gakkai Ronbunshuu B, 2009, 65, 179-189.	0.1	4
70	Vibroacoustic Independent Contributors and Active Control of Vibration and Sound in Double Walls: Part II. Cluster Control. Journal of System Design and Dynamics, 2009, 3, 188-202.	0.3	3
71	On the Resonance Characteristics of the Float Type Wave Power Generation Device. Journal of Environment and Engineering, 2011, 6, 542-553.	0.2	3
72	PARAFAC Decomposition for Ultrasonic Wave Sensing of Fiber Bragg Grating Sensors: Procedure and Evaluation. Sensors, 2015, 15, 16388-16411.	3.8	3

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73	Evaluations of Different Human Machine Interfaces for Presenting Right-Turn Timing at Intersections. International Journal of Intelligent Transportation Systems Research, 2021, 19, 71-82.	1.1	3
74	Evaluation of Driver Assistance System Presenting Information of Other Vehicles through Peripheral Vision at Unsignalized Intersections. International Journal of Intelligent Transportation Systems Research, 2021, 19, 230-239.	1.1	3
75	An Electromagnetic Energy Harvester of Large-Scale Bistable Motion by Application of Stochastic Resonance. Journal of Vibration and Acoustics, Transactions of the ASME, 2022, 144, .	1.6	3
76	Vibroacoustic Independent Contributors and Active Control of Vibration and Sound in Double Walls: Part I. Vibroacoustic Modal Control. Journal of System Design and Dynamics, 2009, 3, 173-187.	0.3	2
77	Analysis of driver visual attention when driving with different levels of haptic steering guidance. , 2017, , .		2
78	Surface Electromyography-Controlled Pedestrian Collision Avoidance: A Driving Simulator Study. IEEE Sensors Journal, 2021, 21, 13877-13885.	4.7	2
79	Detection of Output of Fiber-Optic Bragg Grating Sensor Using Parallel Factor Analysis. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 1410-1419.	0.2	1
80	A quad-stable piezoelectric energy harvester for enhancing energy harvesting from rotational motion: Theoretical model and experiments. IOP Conference Series: Materials Science and Engineering, 2019, 531, 012010.	0.6	1
81	The Centrifugal Softening Effect of an Inverse Nonlinear Energy Harvester in Low-frequency Rotational Motion for Enhancing Performance. , 2019, , .		1
82	Effects of Urgency of Audiovisual Collision Warnings on Response Time and Accuracy of Steering. International Journal of Intelligent Transportation Systems Research, 2020, 18, 90-97.	1.1	1
83	Effects of Exterior Lighting System of Parked Vehicles on the Behaviors of Cyclists. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12451-12463.	8.0	1
84	Active structural modal control for sound reduction in an enclosure: Experimental verification. Applied Acoustics, 2021, 178, 107965.	3.3	1
85	Evaluation of interfaces presenting information to a person in terms of visual fields and the amount of information provided. Mechanical Engineering Journal, 2020, 7, 19-00572-19-00572.	0.4	1
86	An elliptical railâ€“massâ€“spring mechanism to realize multi-stable circulation motion for electromagnetic-energy harvesting. AIP Advances, 2021, 11, .	1.3	1
87	Parameter Identification of a Vehicle for Automatic Platooning Control. International Journal of Intelligent Transportation Systems Research, 2014, 12, 110-117.	1.1	0
88	Editorial: Automated Driving. International Journal of Intelligent Transportation Systems Research, 2014, 12, 83-83.	1.1	0
89	Theoretical and Experimental Investigation of a Multi-stable Energy Harvester for Rotation Motion. Journal of Physics: Conference Series, 2019, 1407, 012130.	0.4	0
90	Surface Electromyography-Controlled Vehicle Braking Assistance System Using Deep Learning. Lecture Notes in Networks and Systems, 2021, , 127-135.	0.7	0

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91	The Influence of Audio Warning Urgency and Situational Urgency on Collision Avoidance Performance. International Journal of Automotive Engineering, 2018, 9, 165-172.	0.5	0
92	Driver response to steering perturbations: mechanical arm admittance and grip pressure. International Journal of Human Factors Modelling and Simulation, 2018, 6, 65.	0.2	0
93	A rotational multi-stable vibration energy harvesting system. Transactions of the JSME (in Japanese), 2022, , .	0.2	0