

# Kimihiko Nakano

## List of Publications by Year in descending order

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93  
papers

1,999  
citations

304602

22  
h-index

265120

42  
g-index

94  
all docs

94  
docs citations

94  
times ranked

1263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Exterior Lighting System of Parked Vehicles on the Behaviors of Cyclists. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12451-12463.	4.7	1
2	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, .	1.0	3
3	Experimental validations of a magnetic energy-harvesting suspension and its potential application for self-powered sensing. Energy, 2022, 239, 122205.	4.5	15
4	A rotational multi-stable vibration energy harvesting system. Transactions of the JSME (in Japanese), 2022, , .	0.1	0
5	Lateral Control in Precision Docking Using RTK-GNSS/INS and LiDAR for Localization. IEEE Transactions on Intelligent Vehicles, 2021, 6, 78-87.	9.4	18
6	Evaluations of Different Human Machine Interfaces for Presenting Right-Turn Timing at Intersections. International Journal of Intelligent Transportation Systems Research, 2021, 19, 71-82.	0.6	3
7	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.	4.4	80
8	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.	4.4	24
9	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.	0.6	3
10	Intention-Based Lane Changing and Lane Keeping Haptic Guidance Steering System. IEEE Transactions on Intelligent Vehicles, 2021, 6, 622-633.	9.4	22
11	Surface Electromyography-Controlled Vehicle Braking Assistance System Using Deep Learning. Lecture Notes in Networks and Systems, 2021, , 127-135.	0.5	0
12	Adaptive Driver-Automation Shared Steering Control via Forearm Surface Electromyography Measurement. IEEE Sensors Journal, 2021, 21, 5444-5453.	2.4	5
13	Rotational energy harvesting for self-powered sensing. Joule, 2021, 5, 1074-1118.	11.7	172
14	Surface Electromyography-Controlled Pedestrian Collision Avoidance: A Driving Simulator Study. IEEE Sensors Journal, 2021, 21, 13877-13885.	2.4	2
15	Active structural modal control for sound reduction in an enclosure: Experimental verification. Applied Acoustics, 2021, 178, 107965.	1.7	1
16	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.	2.1	19
17	Application of Physiological Sensors for Personalization in Semi-Autonomous Driving: A Review. IEEE Sensors Journal, 2021, 21, 19662-19674.	2.4	11
18	An elliptical railâ€‘massâ€‘spring mechanism to realize multi-stable circulation motion for electromagnetic-energy harvesting. AIP Advances, 2021, 11, .	0.6	1

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19	Effect of Fixed and sEMG-Based Adaptive Shared Steering Control on Distracted Driver Behavior. Sensors, 2021, 21, 7691.	2.1	5
20	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.	0.6	1
21	Design of Longitudinal Controller for Automated Driving Bus. International Journal of Intelligent Transportation Systems Research, 2020, 18, 436-450.	0.6	4
22	A tri-stable energy harvester in rotational motion: Modeling, theoretical analyses and experiments. Journal of Sound and Vibration, 2020, 469, 115142.	2.1	80
23	Development of large-scale bistable motion system for energy harvesting by application of stochastic resonance. Journal of Sound and Vibration, 2020, 473, 115213.	2.1	19
24	Design, analysis and prototyping of a magnetic energy-harvesting suspension for vehicles. Smart Materials and Structures, 2020, 29, 105034.	1.8	17
25	A passively self-tuning nonlinear energy harvester in rotational motion: theoretical and experimental investigation. Smart Materials and Structures, 2020, 29, 045033.	1.8	39
26	Combining sustainable stochastic resonance with high-energy orbit oscillation to broaden rotational bandwidth of energy harvesting from tire. AIP Advances, 2020, 10, .	0.6	5
27	Surface Electromyography-Controlled Automobile Steering Assistance. Sensors, 2020, 20, 809.	2.1	7
28	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.	0.2	1
29	Time to lane change and completion prediction based on Gated Recurrent Unit Network. , 2019, , .		28
30	The study of driver's brain activity and behaviour on DS test using fNIRS. IFAC-PapersOnLine, 2019, 51, 244-249.	0.5	4
31	Radiation modes and acoustic field confined near acoustic sources. Journal of the Acoustical Society of America, 2019, 146, EL299-EL305.	0.5	7
32	Design and Evaluation of a Surface Electromyography-Controlled Steering Assistance Interface. Sensors, 2019, 19, 1308.	2.1	7
33	The benefits of an asymmetric tri-stable energy harvester in low-frequency rotational motion. Applied Physics Express, 2019, 12, 057002.	1.1	39
34	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.	3.6	6
35	A surface electromyography controlled steering assistance interface. Journal of Intelligent and Connected Vehicles, 2019, 2, 1-13.	3.6	7
36	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.	0.3	1

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37	Comfort-oriented Haptic Guidance Steering via Deep Reinforcement Learning for Individualized Lane Keeping Assist. , 2019, , .		8
38	Theoretical and Experimental Investigation of a Multi-stable Energy Harvester for Rotation Motion. Journal of Physics: Conference Series, 2019, 1407, 012130.	0.3	0
39	The Centrifugal Softening Effect of an Inverse Nonlinear Energy Harvester in Low-frequency Rotational Motion for Enhancing Performance. , 2019, , .		1
40	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.	9.4	37
41	Stabilising high energy orbit oscillations by the utilisation of centrifugal effects for rotating-tyre-induced energy harvesting. Applied Physics Letters, 2018, 112, .	1.5	56
42	Effect of Haptic Guidance Steering on Lane Following Performance by Taking Account of Driver Reliance on the Assistance System. , 2018, , .		4
43	Driver-Automation Shared Control: Modeling Driver Behavior by Taking Account of Reliance on Haptic Guidance Steering. , 2018, , .		12
44	Analysis of Driver Behaviors while Using In-Vehicle Traffic Light with Partial Deployment of V2I Communication. , 2018, , .		4
45	Active control of sound transmission into an enclosure using structural modal filters. Journal of Sound and Vibration, 2018, 431, 328-345.	2.1	4
46	Effect of drowsiness on mechanical arm admittance and driving performances. IET Intelligent Transport Systems, 2018, 12, 220-226.	1.7	8
47	Influence of haptic guidance on driving behaviour under degraded visual feedback conditions. IET Intelligent Transport Systems, 2018, 12, 454-462.	1.7	10
48	The Influence of Audio Warning Urgency and Situational Urgency on Collision Avoidance Performance. International Journal of Automotive Engineering, 2018, 9, 165-172.	0.3	0
49	Driver response to steering perturbations: mechanical arm admittance and grip pressure. International Journal of Human Factors Modelling and Simulation, 2018, 6, 65.	0.1	0
50	The Effect of a Haptic Guidance Steering System on Fatigue-Related Driver Behavior. IEEE Transactions on Human-Machine Systems, 2017, 47, 741-748.	2.5	55
51	Evaluation of the effects of inâ€vehicle traffic lights on driving performances for unsignalised intersections. IET Intelligent Transport Systems, 2017, 11, 76-83.	1.7	28
52	Analysis of driver visual attention when driving with different levels of haptic steering guidance. , 2017, , .		2
53	Effectiveness Testing of a Piezoelectric Energy Harvester for an Automobile Wheel Using Stochastic Resonance. Sensors, 2016, 16, 1727.	2.1	62
54	Active control of sound transmission using structural modal filters. Journal of Sound and Vibration, 2016, 381, 14-29.	2.1	4

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55	Road Surface Recognition Using Laser Radar for Automatic Platooning. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2800-2810.	4.7	35
56	Analysis of influence on driver behaviour while using in-vehicle traffic lights with application of head-up display. IET Intelligent Transport Systems, 2016, 10, 347-353.	1.7	22
57	Modelling analysis for vibration energy harvesting excited by low-speed automobile tires. Transactions of the JSME (in Japanese), 2016, 82, 15-00645-15-00645.	0.1	5
58	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.	1.1	13
59	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.	2.5	48
60	PARAFAC Decomposition for Ultrasonic Wave Sensing of Fiber Bragg Grating Sensors: Procedure and Evaluation. Sensors, 2015, 15, 16388-16411.	2.1	3
61	On-board identification of tyre cornering stiffness using dual Kalman filter and GPS. Vehicle System Dynamics, 2015, 53, 437-448.	2.2	21
62	Feasibility of Energy Harvesting Using Stochastic Resonance Caused by Axial Periodic Force. Strojinski Vestnik/Journal of Mechanical Engineering, 2015, 60, 314-320.	0.6	16
63	Biosignal Analysis to Assess Mental Stress in Automatic Driving of Trucks: Palmar Perspiration and Masseter Electromyography. Sensors, 2015, 15, 5136-5150.	2.1	55
64	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.	1.1	11
65	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.	1.1	55
66	On square-wave-driven stochastic resonance for energy harvesting in a bistable system. AIP Advances, 2014, 4, 117140.	0.6	10
67	Investigations of a Stiffness Tunable Nonlinear Vibrational Energy Harvester. International Journal of Structural Stability and Dynamics, 2014, 14, 1440023.	1.5	8
68	Parameter Identification of a Vehicle for Automatic Platooning Control. International Journal of Intelligent Transportation Systems Research, 2014, 12, 110-117.	0.6	0
69	An application of stochastic resonance for energy harvesting in a bistable vibrating system. Journal of Sound and Vibration, 2014, 333, 2568-2587.	2.1	116
70	Editorial: Automated Driving. International Journal of Intelligent Transportation Systems Research, 2014, 12, 83-83.	0.6	0
71	Study on Emergency-Avoidance Braking for the Automatic Platooning of Trucks. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1748-1757.	4.7	35
72	Safety Testing of an Improved Brake System for Automatic Platooning of Trucks. International Journal of Intelligent Transportation Systems Research, 2014, 12, 98-109.	0.6	8

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73	Leukoaraiosis Significantly Worsens Driving Performance of Ordinary Older Drivers. PLoS ONE, 2014, 9, e108333.	1.1	11
74	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.	2.5	14
75	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
76	An experimental study of stochastic resonance in a bistable mechanical system. Journal of Physics: Conference Series, 2012, 382, 012024.	0.3	5
77	Active Vibration Control of an Elevator Car Using Two Rotary Actuators. Journal of System Design and Dynamics, 2011, 5, 155-163.	0.3	5
78	On the Resonance Characteristics of the Float Type Wave Power Generation Device. Journal of Environment and Engineering, 2011, 6, 542-553.	0.2	3
79	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
80	Physical Fatigue Comparison of Eco-Driving and Normal Driving. Journal of System Design and Dynamics, 2011, 5, 994-1004.	0.3	6
81	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.	0.6	8
82	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
83	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
84	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
85	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
86	Effective suppression of hippocampal seizures in rats by direct hippocampal cooling with a Peltier chip. Journal of Neurosurgery, 2008, 108, 791-797.	0.9	35
87	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
88	A unified approach to optimal conditions of power harvesting using electromagnetic and piezoelectric transducers. Smart Materials and Structures, 2007, 16, 948-958.	1.8	34
89	Use of a Peltier chip with a newly devised local brain cooling system for neocortical seizures in the rat. Journal of Neurosurgery, 2006, 104, 150-156.	0.9	59
90	Combined Type Self-Powered Active Vibration Control of Truck Cabins. Vehicle System Dynamics, 2004, 41, 449-473.	2.2	93

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91	Self-powered active vibration control using a single electric actuator. Journal of Sound and Vibration, 2003, 260, 213-235.	2.1	171
92	Self-powered active control applied to a truck cab suspension. Review of Automotive Engineering, 1999, 20, 511-516.	0.2	24
93	Hybrid Suspension System with Skyhook Control and Energy Regeneration (Development of) Tj ETQq1 1 0.784314,rgBT /Overlock 10	2.2	74