

Hiroyuki Okuda

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

418
citations

1163117

8
h-index

1058476

14
g-index

40
all docs

40
docs citations

40
times ranked

254
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and Analysis of Driving Behavior Based on a Probability-Weighted ARX Model. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 98-112.	8.0	67
2	Autonomous driving based on accurate localization using multilayer LiDAR and dead reckoning. , 2017, , .		57
3	Steering assisting system for obstacle avoidance based on personalized potential field. , 2012, , .		31
4	Real-Time Implementation of Randomized Model Predictive Control for Autonomous Driving. IEEE Transactions on Intelligent Vehicles, 2022, 7, 11-20.	12.7	25
5	A hierarchical hybrid system of integrated longitudinal and lateral control for intelligent vehicles. ISA Transactions, 2020, 106, 200-212.	5.7	18
6	Realization of different driving characteristics for autonomous vehicle by using model predictive control. , 2016, , .		16
7	Parking Trajectory Planning Using Multiresolution State Roadmaps. IEEE Transactions on Intelligent Vehicles, 2017, 2, 298-307.	12.7	16
8	Realization and Evaluation of an Instructor-Like Assistance System for Collision Avoidance. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2751-2760.	8.0	16
9	Analyzing driver gaze behavior and consistency of decision making during automated driving. , 2015, , .		15
10	Multi-Hierarchical Modeling of Driving Behavior Using Dynamics-Based Mode Segmentation. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 2763-2771.	0.3	15
11	Multi-scale driving behavior modeling using hierarchical PWARX model. , 2010, , .		13
12	Quantitative Driver Acceptance Modeling for Merging Car at Highway Junction and Its Application to the Design of Merging Behavior Control. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 329-340.	8.0	13
13	Model predictive assisting control of vehicle following task based on driver model. , 2010, , .		12
14	Modeling and analysis of acceptability for merging vehicle at highway junction. , 2016, , .		12
15	Design of automated merging control by minimizing decision entropy of drivers on main lane. , 2017, , .		11
16	Model predictive driver assistance control for cooperative cruise based on hybrid system driver model. , 2014, , .		10
17	Autonomous lane tracking reflecting skilled/un-skilled driving characteristics. , 2015, , .		10
18	Scenario-based stochastic MPC for vehicle speed control considering the interaction with pedestrians. IFAC-PapersOnLine, 2020, 53, 15325-15331.	0.9	9

#	ARTICLE	IF	CITATIONS
19	Sampling Based Predictive Control with Frequency Domain Input Sampling for Smooth Collision Avoidance. , 2018, , .		7
20	A model predictive control-based lane merging strategy for autonomous vehicles. , 2019, , .		7
21	Improvement of Control Performance of Sampling Based Model Predictive Control using GPU. , 2019, , .		5
22	Driving Behavior Modeling Based on Consistent Variable Selection in a PWARX Model. Applied Sciences (Switzerland), 2021, 11, 4938.	2.5	4
23	Manual Control Mode for Autonomous Mobile Robots Using Velocity-Based Impedance Control. IEEJ Journal of Industry Applications, 2022, 11, 650-663.	1.1	4
24	Modeling and analysis of peg-in-hole task based on mode segmentation. , 2008, , .		3
25	Driver Assistance Control Based on Model Predictive Computation of Constraint Satisfaction. , 2015, , .		3
26	Variable Selection and Modeling of Driversâ€™ Decision in Overtaking Behavior Based on Logistic Regression Model With Gazing Information. IEEE Access, 2021, 9, 127672-127684.	4.2	3
27	Scenario-based model predictive speed controller considering probabilistic constraint for driving scene with pedestrian. , 2020, , .		3
28	Identification of Mode Switching Condition in Overtaking Behavior Using Variable-Free Logistic Regression Model. , 2015, , .		2
29	Development and evaluation of driving speed controller for lane merging considering surrounding driver's intention toward stress-free driving. SICE Journal of Control Measurement and System Integration, 2021, 14, 128-139.	0.7	2
30	Understanding of positioning skill based on feedforward / feedback switched dynamical model. , 2009, , .		1
31	Fatigue recognition using EMG signals and stochastic switched ARX model. IEEJ Transactions on Electrical and Electronic Engineering, 2012, 7, 574-582.	1.4	1
32	Identification of time-varying parameters in Gipps model for driving behavior analysis. , 2016, , .		1
33	Implementation and verification of supervisory cooperative control by model predictive method. , 2016, , .		1
34	Analysis and Modeling of Real World Car-Following Driving in Downtown Area Based on Variable Structured Piecewise Linear Model*. , 2019, , .		1
35	Design of Fail-safe Model Predictive Controller for Sudden Changes in Driving Scenes. , 2021, , .		1
36	Identification of Positioning Skill Based on Feedforward/Feedback Switched Dynamical Model. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 2755-2762.	0.3	1

#	ARTICLE	IF	CITATIONS
37	Configuration-aware Model Predictive Motion Planning in Narrow Environment for Autonomous Tractor-trailer Mobile Robot. , 2021, , .		1
38	Modelling and Analysis for Interactive Crossing Decision of Pedestrian at Non-signalized Intersection. , 2022, , .		1
39	Modeling and Analysis of Interactive Driving Behavior Based on Piecewise ARX Model. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2020, 32, 713-721.	0.0	0
40	Connection of nonlinear model predictive controllers for smooth task switching in autonomous driving. Asian Journal of Control, 0, , .	3.0	0