Danil Prokhorov

List of Publications by Year
in descending order

48 papers	2,349 citations	623734 14 h-index	713466 21 g-index
49 all docs	49 docs citations	49 times ranked	2351 citing authors

#	Article	IF	Citations
1	Force Anticipation and Its Potential Implications on Feedforward and Feedback Human Motor Control. Human Factors, 2021, 63, 647-662.	3.5	4
2	Risk-Bounded Control Using Stochastic Barrier Functions. , 2021, 5, 1831-1836.		8
3	Reachability analysis of deep ReLU neural networks using facet-vertex incidence. , 2021, , .		11
4	Risk-bounded Control using Stochastic Barrier Functions. , 2021, , .		0
5	Safe Navigation in Human Occupied Environments Using Sampling and Control Barrier Functions. , 2021, , .		10
6	Human Model-Based Active Driving System in Vehicular Dynamic Simulation. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1903-1914.	8.0	5
7	Feature Pyramid and Hierarchical Boosting Network for Pavement Crack Detection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 1525-1535.	8.0	460
8	Requirements-Driven Test Generation for Autonomous Vehicles With Machine Learning Components. IEEE Transactions on Intelligent Vehicles, 2020, 5, 265-280.	12.7	63
9	Application of Simulation-Based Methods on Autonomous Vehicle Control with Deep Neural Network: Work-in-Progress. , 2020, , .		0
10	Specification-guided Software Fault Localization for Autonomous Mobile Systems. , 2020, , .		2
11	Toward Next Generation of Autonomous Systems with AI. , 2019, , .		1
12	Merging in Congested Freeway Traffic Using Multipolicy Decision Making and Passive Actor-Critic Learning. IEEE Transactions on Intelligent Vehicles, 2019, 4, 287-297.	12.7	38
13	Fast construction of correcting ensembles for legacy Artificial Intelligence systems: Algorithms and a case study. Information Sciences, 2019, 485, 230-247.	6.9	12
14	Learning Deep Neural Network Controllers for Dynamical Systems with Safety Guarantees: Invited Paper. , 2019, , .		11
15	Model-Free Real-Time EV Charging Scheduling Based on Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2019, 10, 5246-5257.	9.0	300
16	Differential Features for Pedestrian Detection: A Taylor Series Perspective. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2913-2922.	8.0	14
17	Multi-Level Contextual RNNs With Attention Model for Scene Labeling. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3475-3485.	8.0	28
18	Cross-Domain Traffic Scene Understanding: A Dense Correspondence-Based Transfer Learning Approach. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 745-757.	8.0	33

#	Article	IF	Citations
19	A Data-Driven Approach for Real-Time Residential EV Charging Management. , 2018, , .		10
20	Deep Neural Network for Structural Prediction and Lane Detection in Traffic Scene. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 690-703.	11.3	326
21	RGB-D Scene Labeling with Multimodal Recurrent Neural Networks. , 2017, , .		4
22	Learning to tell brake and turn signals in videos using CNN-LSTM structure. , 2017, , .		15
23	A benchmark for cross-weather traffic scene understanding. , 2016, , .		2
24	Learning to tell brake lights with convolutional features. , 2016, , .		8
25	Challenges in Perception and Decision Making for Intelligent Automotive Vehicles: A Case Study. IEEE Transactions on Intelligent Vehicles, 2016, 1, 20-32.	12.7	57
26	Cross datasets vegetation detection with spatial prior and local context. , 2016, , .		0
27	MUlti-Store Tracker (MUSTer): A cognitive psychology inspired approach to object tracking. , 2015, , .		470
28	Robust Multitask Multiview Tracking in Videos. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2874-2890.	11.3	65
29	Spatial Prior for Nonparametric Road Scene Parsing. , 2015, , .		3
30	Detection and motion planning for roadside parked vehicles at long distance. , 2015, , .		4
31	Clipping in Neurocontrol by Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1909-1920.	11.3	9
32	Tracking Using Multilevel Quantizations. Lecture Notes in Computer Science, 2014, , 155-171.	1.3	40
33	An Equivalence Between Adaptive Dynamic Programming With a Critic and Backpropagation Through Time. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 2088-2100.	11.3	35
34	Tracking via Robust Multi-task Multi-view Joint Sparse Representation. , 2013, , .		116
35	Simple and Fast Calculation of the Second-Order Gradients for Globalized Dual Heuristic Dynamic Programming in Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1671-1676.	11.3	41
36	Multi-agent framework for remote diagnostics. , 2010, , .		3

#	Article	IF	Citations
37	A Convolutional Learning System for Object Classification in 3-D Lidar Data. IEEE Transactions on Neural Networks, 2010, 21, 858-863.	4.2	42
38	A self-learning sensor fusion system for object classification. , 2009, , .		1
39	Risk estimator for control in intelligent transportation system. , 2009, , .		4
40	Where-what network 1: &#x201C;Where&#x201D; and &#x201C;what&#x201D; assist each other through top-down connections. , 2008, , .		27
41	Intelligent Systems for Modeling and Control: Advances in Design and Validation. , 2008, , .		0
42	Adaptive Classification of Temporal Signals in Fixed-Weight Recurrent Neural Networks: An Existence Proof. Neural Computation, 2008, 20, 2564-2596.	2.2	5
43	Neural Networks in Automotive Applications. Studies in Computational Intelligence, 2008, , 101-123.	0.9	9
44	Application of an Effective Data-Driven Approach to Real-time time Fault Diagnosis in Automotive Engines. , 2007, , .		15
45	Toyota Prius HEV neurocontrol. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	12
46	Unsupervised adaptive optimization of motion-sensitive systems guided by measurement uncertainty. , 2007, , .		1
47	Toward effective combination of off-line and on-line training in ADP framework. , 2007, , .		11
48	Finite form realizations of adaptive control algorithms. , 2003, , .		7