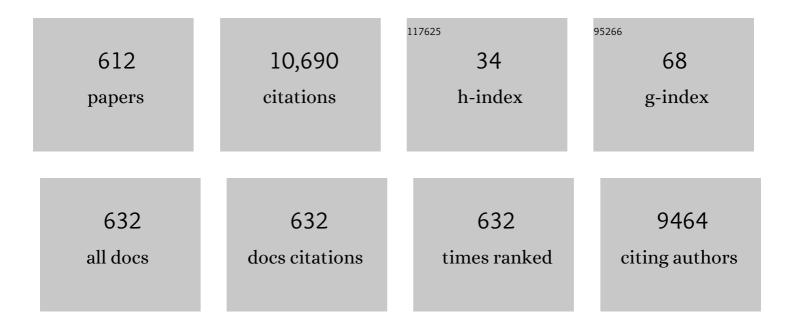
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Robotic Manipulation in Dynamic Scenarios via Bounding-Box-Based Hindsight Goal Generation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5037-5050.	11.3	5
2	API-Based Hardware Fault Simulation for DNN Accelerators. IEEE Design and Test, 2023, 40, 75-81.	1.2	2
3	Reduced Model-Based Fault Detector and Controller Design for Discrete-Time Switching Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2023, 31, 669-681.	9.8	2
4	A Survey of the Four Pillars for Small Object Detection: Multiscale Representation, Contextual Information, Super-Resolution, and Region Proposal. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 936-953.	9.3	94
5	NeuroIV: Neuromorphic Vision Meets Intelligent Vehicle Towards Safe Driving With a New Database and Baseline Evaluations. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1171-1183.	8.0	26
6	Design and Control of a Highly Redundant Rigid-flexible Coupling Robot to Assist the COVID-19 Oropharyngeal-Swab Sampling. IEEE Robotics and Automation Letters, 2022, 7, 1856-1863.	5.1	39
7	Complex Robotic Manipulation via Graph-Based Hindsight Goal Generation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7863-7876.	11.3	10
8	KAM-Net: Keypoint-Aware and Keypoint-Matching Network for Vehicle Detection From 2-D Point Cloud. IEEE Transactions on Artificial Intelligence, 2022, 3, 207-217.	4.7	6
9	Toward Cognitive Navigation: Design and Implementation of a Biologically Inspired Head Direction Cell Network. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2147-2158.	11.3	9
10	MoNet: Motion-Based Point Cloud Prediction Network. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13794-13804.	8.0	5
11	Context awareness in process monitoring of additive manufacturing using a digital twin. International Journal of Advanced Manufacturing Technology, 2022, 119, 3483-3500.	3.0	18
12	E/E Architecture Synthesis: Challenges and Technologies. Electronics (Switzerland), 2022, 11, 518.	3.1	19
13	Linking Brain Structure, Activity, and Cognitive Function through Computation. ENeuro, 2022, 9, ENEURO.0316-21.2022.	1.9	22
14	Globally Optimal Linear Model Fitting with Unit-Norm Constraint. International Journal of Computer Vision, 2022, 130, 933-946.	15.6	2
15	Globally-Optimal Inlier Maximization for Relative Pose Estimation Under Planar Motion. Frontiers in Neurorobotics, 2022, 16, 820703.	2.8	0
16	Automotive Radar Processing With Spiking Neural Networks: Concepts and Challenges. Frontiers in Neuroscience, 2022, 16, 851774.	2.8	8
17	The Neurorobotics Platform Robot Designer: Modeling Morphologies for Embodied Learning Experiments. Frontiers in Neurorobotics, 2022, 16, 856727.	2.8	4
18	Deep Reinforcement Learning Based Trajectory Planning Under Uncertain Constraints. Frontiers in Neurorobotics, 2022, 16, 883562.	2.8	20

#	Article	IF	CITATIONS
19	NeuroGrasp: Multimodal Neural Network With Euler Region Regression for Neuromorphic Vision-Based Grasp Pose Estimation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	16
20	Meta-Reinforcement Learning in Non-Stationary and Dynamic Environments. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-17.	13.9	13
21	Providentia – A Large-Scale Sensor System for the Assistance of Autonomous Vehicles and Its Evaluation. , 2022, 2, 1156-1176.		11
22	Point Cloud Registration With Object-Centric Alignment. IEEE Access, 2022, 10, 76586-76595.	4.2	6
23	Learning Local Event-based Descriptor for Patch-based Stereo Matching. , 2022, , .		0
24	Pseudo-Image and Sparse Points: Vehicle Detection With 2D LiDAR Revisited by Deep Learning-Based Methods. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7699-7711.	8.0	20
25	NeuroAED: Towards Efficient Abnormal Event Detection in Visual Surveillance With Neuromorphic Vision Sensor. IEEE Transactions on Information Forensics and Security, 2021, 16, 923-936.	6.9	15
26	Globally Optimal Camera Orientation Estimation from Line Correspondences by BnB algorithm. IEEE Robotics and Automation Letters, 2021, 6, 215-222.	5.1	8
27	Multiobjective Scheduling Strategy With Genetic Algorithm and Time-Enhanced A* Planning for Autonomous Parking Robotics in High-Density Unmanned Parking Lots. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1547-1557.	5.8	19
28	A Generic Plug & Produce System Composed of Semantic OPC UA Skills. IEEE Open Journal of the Industrial Electronics Society, 2021, 2, 128-141.	6.8	29
29	Object Localization with Attribute Preference Based on Top-Down Attention. Lecture Notes in Computer Science, 2021, , 28-40.	1.3	0
30	Fusion-Based Feature Attention Gate Component for Vehicle Detection Based on Event Camera. IEEE Sensors Journal, 2021, 21, 24540-24548.	4.7	22
31	HSTA: A Hierarchical Spatio-Temporal Attention Model for Trajectory Prediction. IEEE Transactions on Vehicular Technology, 2021, 70, 11295-11307.	6.3	23
32	NeuroBiometric: An eye blink based biometric authentication system using an event-based neuromorphic vision sensor. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 206-218.	13.1	14
33	Quality Control and Fault Classification of Laser Welded Hairpins in Electrical Motors. , 2021, , .		6
34	End-to-End Spiking Neural Network for Speech Recognition Using Resonating Input Neurons. Lecture Notes in Computer Science, 2021, , 245-256.	1.3	5
35	Design and evaluation of the target spray platform. International Journal of Advanced Robotic Systems, 2021, 18, 172988142199614.	2.1	6
36	AVDM: A hierarchical command-and-control system architecture for cooperative autonomous vehicles in highways scenario using microscopic simulations. Autonomous Agents and Multi-Agent Systems, 2021, 35, 1.	2.1	8

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37	Transitioning Spiking Neural Network Simulators to Heterogeneous Hardware. ACM Transactions on Modeling and Computer Simulation, 2021, 31, 1-26.	0.8	1
38	A Novel Illumination-Robust Hand Gesture Recognition System With Event-Based Neuromorphic Vision Sensor. IEEE Transactions on Automation Science and Engineering, 2021, 18, 508-520.	5.2	19
39	Causality and Consistency of State Update Schemes in Synchronous Agent-based Simulations. , 2021, , .		1
40	Spiking Neural Network for Fourier Transform and Object Detection for Automotive Radar. Frontiers in Neurorobotics, 2021, 15, 688344.	2.8	10
41	Event-based Object Detection with Lightweight Spatial Attention Mechanism. , 2021, , .		4
42	Attention Based Graph Convolutional Networks for Trajectory Prediction. , 2021, , .		2
43	A Survey of Encoding Techniques for Signal Processing in Spiking Neural Networks. Neural Processing Letters, 2021, 53, 4693-4710.	3.2	55
44	A spiking central pattern generator for the control of a simulated lamprey robot running on SpiNNaker and Loihi neuromorphic boards. Neuromorphic Computing and Engineering, 2021, 1, 014005.	5.9	17
45	VCANet: Vanishing-Point-Guided Context-Aware Network for Small Road Object Detection. Automotive Innovation, 2021, 4, 400-412.	5.1	23
46	Spotlight-Based 3D Instrument Guidance for Autonomous Task in Robot-Assisted Retinal Surgery. IEEE Robotics and Automation Letters, 2021, 6, 7750-7757.	5.1	8
47	Peak temperature analysis and optimization for pipelined hard real-time systems. Information Sciences, 2021, 575, 666-697.	6.9	1
48	Comparison of TSEP Performances Operating at Homogeneous and Inhomogeneous Temperature Distribution in Multichip IGBT Power Modules. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 6282-6292.	5.4	14
49	Measurement of QCM Mass Sensitivity Using Electrodeposition Method. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.7	0
50	Nonlinear Model Predictive Control for Mobile Medical Robot Using Neural Optimization. IEEE Transactions on Industrial Electronics, 2021, 68, 12636-12645.	7.9	33
51	A Hierarchical State-Machine-Based Framework for Platoon Manoeuvre Descriptions. IEEE Access, 2021, 9, 128393-128406.	4.2	3
52	Pole-Curb Fusion Based Robust and Efficient Autonomous Vehicle Localization System With Branch-and-Bound Global Optimization and Local Grid Map Method. IEEE Transactions on Vehicular Technology, 2021, 70, 11283-11294.	6.3	19
53	3D Object Detection With Multi-Frame RGB-Lidar Feature Alignment. IEEE Access, 2021, 9, 143138-143149.	4.2	4
54	Residual Squeeze-and-Excitation Network with Multi-scale Spatial Pyramid Module for Fast Robotic		7

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55	Parameterizable and Jerk-Limited Trajectories with Blending for Robot Motion Planning and Spherical Cartesian Waypoints. , 2021, , .		1
56	Deep Hierarchical Rotation Invariance Learning with Exact Geometry Feature Representation for Point Cloud Classification. , 2021, , .		1
57	Globally Optimal Consensus Maximization for Relative Pose Estimation With Known Gravity Direction. IEEE Robotics and Automation Letters, 2021, 6, 5905-5912.	5.1	2
58	Porting Deep Spiking Q-Networks to neuromorphic chip Loihi. , 2021, , .		4
59	Grasp Planning for Flexible Production with Small Lot Sizes based on CAD models using GPIS and Bayesian Optimization. , 2021, , .		1
60	Improved Occlusion Scenario Coverage with a POMDP-based Behavior Planner for Autonomous Urban Driving. , 2021, , .		10
61	A Model-Based Approach to Facilitate Design of Homogeneous Redundant E/E Architectures. , 2021, , .		2
62	Risk-Constrained Interactive Safety under Behavior Uncertainty for Autonomous Driving. , 2021, , .		5
63	Temp-Frustum Net: 3D Object Detection with Temporal Fusion. , 2021, , .		2
64	A Platform to Configure and Monitor Safety-Critical Applications for Automotive Central Computers. , 2021, , .		2
65	FloMo: Tractable Motion Prediction with Normalizing Flows. , 2021, , .		5
66	PCTMA-Net: Point Cloud Transformer with Morphing Atlas-based Point Generation Network for Dense Point Cloud Completion. , 2021, , .		11
67	Indirect and direct training of spiking neural networks for end-to-end control of a lane-keeping vehicle. Neural Networks, 2020, 121, 21-36.	5.9	32
68	Towards Robotic-Assisted Subretinal Injection: A Hybrid Parallel–Serial Robot System Design and Preliminary Evaluation. IEEE Transactions on Industrial Electronics, 2020, 67, 6617-6628.	7.9	56
69	Efficient Performance Estimation and Work-Group Size Pruning for OpenCL Kernels on GPUs. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1089-1106.	5.6	2
70	Graph Convolutional Neural Network for a Pharmacy Cross-Selling Recommender System. Information (Switzerland), 2020, 11, 525.	2.9	12
71	Considering Safety Requirements in Design Phase of Future E/E Architectures. , 2020, , .		5
72	Parking Slot Detection on Around-View Images Using DCNN. Frontiers in Neurorobotics, 2020, 14, 46.	2.8	17

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73	A passenger model for simulating boarding and alighting in spatially confined transportation scenarios. Journal of Computational Science, 2020, 45, 101173.	2.9	8
74	Improved recurrent neural network-based manipulator control with remote center of motion constraints: Experimental results. Neural Networks, 2020, 131, 291-299.	5.9	166
75	Closing the loop: Real-time Error Detection and Correction in automotive production using Edge-/Cloud-Architecture and a CNN. , 2020, , .		5
76	Perception-Action Coupling Target Tracking Control for a Snake Robot via Reinforcement Learning. Frontiers in Neurorobotics, 2020, 14, 591128.	2.8	11
77	Trajectory Prediction Based on Planning Method Considering Collision Risk. , 2020, , .		7
78	Center-of-Mass-based Robust Grasp Planning for Unknown Objects Using Tactile-Visual Sensors. , 2020, , .		11
79	A Modular Edge-/Cloud-Solution for Automated Error Detection of Industrial Hairpin Weldings using Convolutional Neural Networks. , 2020, , .		6
80	Comparison of the absolute mass sensitivity of ring electrode QCM and standard QCM using electrodeposition. Electrochemistry Communications, 2020, 119, 106826.	4.7	8
81	A Novel Visible Light Positioning System With Event-Based Neuromorphic Vision Sensor. IEEE Sensors Journal, 2020, 20, 10211-10219.	4.7	18
82	OpenABLext: An automatic code generation framework for agentâ€based simulations on CPUâ€GPUâ€FPGA heterogeneous platforms. Concurrency Computation Practice and Experience, 2020, 32, e5807.	2.2	4
83	Measurement of the mass sensitivity of QCM with ring electrodes using electrodeposition. Electrochemistry Communications, 2020, 116, 106744.	4.7	13
84	Energy-efficient and damage-recovery slithering gait design for a snake-like robot based on reinforcement learning and inverse reinforcement learning. Neural Networks, 2020, 129, 323-333.	5.9	30
85	Event-Based Neuromorphic Vision for Autonomous Driving: A Paradigm Shift for Bio-Inspired Visual Sensing and Perception. IEEE Signal Processing Magazine, 2020, 37, 34-49.	5.6	147
86	C-V2X Resource Deployment Architecture Based on Moving Network Convoys. , 2020, , .		3
87	Ground Moving Vehicle Detection and Movement Tracking Based on the Neuromorphic Vision Sensor. IEEE Internet of Things Journal, 2020, 7, 9026-9039.	8.7	14
88	EDDD: Event-Based Drowsiness Driving Detection Through Facial Motion Analysis With Neuromorphic Vision Sensor. IEEE Sensors Journal, 2020, 20, 6170-6181.	4.7	33
89	Extrinsic Calibration of an Eye-In-Hand 2D LiDAR Sensor in Unstructured Environments Using ICP. IEEE Robotics and Automation Letters, 2020, 5, 929-936.	5.1	11
90	What the Constant Velocity Model Can Teach Us About Pedestrian Motion Prediction. IEEE Robotics and Automation Letters, 2020, 5, 1696-1703.	5.1	130

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91	Task-Independent Spiking Central Pattern Generator: A Learning-Based Approach. Neural Processing Letters, 2020, 51, 2751-2764.	3.2	4
92	Matrix Inequalities Based Robust Model Predictive Control for Vehicle Considering Model Uncertainties, External Disturbances, and Time-Varying Delay. Frontiers in Neurorobotics, 2020, 14, 617293.	2.8	8
93	Distance-Based Multivariate Anomaly Detection in Wire Arc Additive Manufacturing. , 2020, , .		13
94	Globally Optimal Vertical Direction Estimation in Atlanta World. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	13.9	13
95	Fidelity and Performance of State Fast-forwarding in Microscopic Traffic Simulations. ACM Transactions on Modeling and Computer Simulation, 2020, 30, 1-26.	0.8	6
96	Pedal to the Bare Metal. , 2020, , .		1
97	Advancing Automatic Code Generation for Agent-Based Simulations on Heterogeneous Hardware. Lecture Notes in Computer Science, 2020, , 308-319.	1.3	0
98	Fast-Forwarding of Vehicle Clusters in Microscopic Traffic Simulations. , 2020, , .		0
99	Electrification and Automation of Road Transport: Impact Analysis of Heat and Carbon Emissions for Singapore. , 2020, , .		1
100	Linear Differential Games for Cooperative Behavior Planning of Autonomous Vehicles Using Mixed-Integer Programming. , 2020, , .		3
101	Development of a Cloud- and Edge-Architecture for adaptive model weight optimization of a CNN exemplified by optical detection of hairpin welding. , 2020, , .		4
102	Autonomous Vehicles as Local Traffic Optimizers. Lecture Notes in Computer Science, 2020, , 499-512.	1.3	0
103	Biological data questions the support of the self inhibition required for pattern generation in the half center model. PLoS ONE, 2020, 15, e0238586.	2.5	6
104	Spotlight-based 3D Instrument Guidance for Retinal Surgery. , 2020, 2020, .		1
105	Online Road Model Generation From Evidential Semantic Grids. , 2020, , .		1
106	Advanced Active Learning Strategies for Object Detection. , 2020, , .		8
107	Clustering of the Scenario Space for the Assessment of Automated Driving. , 2020, , .		13

108 Optimal Behavior Planning for Autonomous Driving: A Generic Mixed-Integer Formulation. , 2020, , .

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109	Improving Motion Planning for Surgical Robot with Active Constraints. , 2020, , .		4
110	Graph Neural Networks and Reinforcement Learning for Behavior Generation in Semantic Environments. , 2020, , .		21
111	Measurement of QCM Mass Sensitivity Based on Electrodeposition. , 2020, , .		0
112	6D Pose Estimation for Flexible Production with Small Lot Sizes based on CAD Models using Gaussian Process Implicit Surfaces. , 2020, , .		3
113	Hierarchical optimization Control of Redundant Manipulator for Robot-assisted Minimally Invasive Surgery. , 2020, , .		5
114	Target Tracking Control of a Wheel-less Snake Robot Based on a Supervised Multi-layered SNN. , 2020, ,		4
115	Formalizing Traffic Rules for Machine Interpretability. , 2020, , .		19
116	A Fast and Robust 2D LiDAR Alignment Method by Motion Decoupling. , 2020, , .		0
117	Spotlight-based 3D Instrument Guidance for Retinal Surgery. , 2020, 2020, .		5
118	McFTP: A framework for fast thermal managements prototyping on real multi-core processors. Sustainable Computing: Informatics and Systems, 2019, 22, 191-205.	2.2	1
119	Continuous Software Engineering of Innovative Automotive Functions: An Industrial Perspective. , 2019, , .		5
120	Mixed Frame-/Event-Driven Fast Pedestrian Detection. , 2019, , .		37
121	OPC UA versus ROS, DDS, and MQTT: Performance Evaluation of Industry 4.0 Protocols. , 2019, , .		119
122	Adaptive Periodic Thermal Management for Pipelined Hard Real-Time Systems. IEEE Access, 2019, 7, 114731-114746.	4.2	1
123	Neuromorphic Vision Datasets for Pedestrian Detection, Action Recognition, and Fall Detection. Frontiers in Neurorobotics, 2019, 13, 38.	2.8	33
124	The Human Brain Project—Synergy between neuroscience, computing, informatics, and brain-inspired technologies. PLoS Biology, 2019, 17, e3000344.	5.6	64
125	6DOF Needle Pose Estimation for Robot-Assisted Vitreoretinal Surgery. IEEE Access, 2019, 7, 63113-63122.	4.2	13

126 Smart Manufacturing with Prescriptive Analytics. , 2019, , .

#	Article	IF	CITATIONS
127	Planning and Engineering Component-Based Automation Systems in AutomationML. , 2019, , .		1
128	An Approach for an Automated Adaption of KPI Ontologies by Reusing Systems Engineering Data. , 2019, , .		3
129	Towards Cross-Verification and Use of Simulation in the Assessment of Automated Driving. , 2019, , .		14
130	OPC UA NodeSet Ontologies as a Pillar of Representing Semantic Digital Twins of Manufacturing Resources. , 2019, , .		22
131	Nonlinear Model Predictive Control for Mobile Robot Using Varying-Parameter Convergent Differential Neural Network. Robotics, 2019, 8, 64.	3.5	22
132	Transitioning Spiking Neural Network Simulators to Heterogeneous Hardware. , 2019, , .		1
133	Addressing Inherent Uncertainty: Risk-Sensitive Behavior Generation for Automated Driving using Distributional Reinforcement Learning. , 2019, , .		15
134	End to End Learning of a Multi-Layered Snn Based on R-Stdp for a Target Tracking Snake-Like Robot. , 2019, , .		14
135	Needle Localization for Robot-assisted Subretinal Injection based on Deep Learning. , 2019, , .		12
136	Semantic Grid-Based Road Model Estimation for Autonomous Driving. , 2019, , .		6
137	Performance Optimisation of Parallelized ADAS Applications in FPGA-GPU Heterogeneous Systems: A Case Study With Lane Detection. IEEE Transactions on Intelligent Vehicles, 2019, 4, 519-531.	12.7	9
138	Bridging the Gap between Open Source Software and Vehicle Hardware for Autonomous Driving. , 2019, , .		10
139	Towards Model-Free Tool Dynamic Identification and Calibration Using Multi-Layer Neural Network. Sensors, 2019, 19, 3636.	3.8	32
140	Evaluation of Feature Selection for Anomaly Detection in Automotive E/E Architectures. , 2019, , .		4
141	Anomaly Detection for Advanced Driver Assistance Systems Using Online Feature Selection. , 2019, , .		3
142	From Effects to Causes. , 2019, , .		3
143	Deep anticipation: lightweight intelligent mobile sensing for unmanned vehicles in IoT by recurrent architecture. IET Intelligent Transport Systems, 2019, 13, 1468-1474.	3.0	2
144	A Survey on Agent-based Simulation Using Hardware Accelerators. ACM Computing Surveys, 2019, 51, 1-35.	23.0	32

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145	An Agent-Based Model for Evaluating the Boarding and Alighting Efficiency of Autonomous Public Transport Vehicles. Lecture Notes in Computer Science, 2019, , 534-547.	1.3	4
146	A Macroscopic Study on Dedicated Highway Lanes for Autonomous Vehicles. Lecture Notes in Computer Science, 2019, , 520-533.	1.3	7
147	Supervised Learning in SNN via Reward-Modulated Spike-Timing-Dependent Plasticity for a Target Reaching Vehicle. Frontiers in Neurorobotics, 2019, 13, 18.	2.8	24
148	Model-based Schedule Synthesis in Time-Sensitive Networks. Lecture Notes in Mobility, 2019, , 197-203.	0.2	0
149	Retina-Based Pipe-Like Object Tracking Implemented Through Spiking Neural Network on a Snake Robot. Frontiers in Neurorobotics, 2019, 13, 29.	2.8	13
150	Multi-Cue Event Information Fusion for Pedestrian Detection With Neuromorphic Vision Sensors. Frontiers in Neurorobotics, 2019, 13, 10.	2.8	22
151	Neural Network Based Uncertainty Prediction for Autonomous Vehicle Application. Frontiers in Neurorobotics, 2019, 13, 12.	2.8	10
152	FLGR: Fixed Length Gists Representation Learning for RNN-HMM Hybrid-Based Neuromorphic Continuous Gesture Recognition. Frontiers in Neuroscience, 2019, 13, 73.	2.8	11
153	A Hybrid Framework for Fast and Accurate GPU Performance Estimation through Source-Level Analysis and Trace-Based Simulation. , 2019, , .		13
154	Leveraging Semantic Embeddings for Safety-Critical Applications. , 2019, , .		3
155	Co-Development of an Infant Prototype in Hardware and Simulation based on CT Imaging Data. , 2019, , .		0
156	Fault Classification and Correction based on Convolutional Neural Networks exemplified by laser welding of hairpin windings. , 2019, , .		8
157	Automated Trainability Evaluation for Smart Software Functions. , 2019, , .		1
158	Online Path Generation from Sensor Data for Highly Automated Driving Functions. , 2019, , .		5
159	System-Level Optimization of Longitudinal Acceleration of Autonomous Vehicles in Mixed Traffic. , 2019, , .		4
160	Semantic Mates: Intuitive Geometric Constraints for Efficient Assembly Specifications. , 2019, , .		6
161	Development of the Neurorobotic Mouse. , 2019, , .		9
162	Motion Prediction of Virtual Patterns, Human Hand Motions, and a simplified Hand Manipulation Task with Hierarchical Temporal Memory. , 2019, , .		4

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163	Cooperative Multi-Vehicle Behavior Coordination for Autonomous Driving. , 2019, , .		17
164	Targetless Rotational Auto-Calibration of Radar and Camera for Intelligent Transportation Systems. , 2019, , .		28
165	Mobile Robot Learning from Human Demonstrations with Nonlinear Model Predictive Control. , 2019, , \cdot		10
166	Guessing Smart: Biased Sampling for Efficient Black-Box Adversarial Attacks. , 2019, , .		50
167	A Reference Architecture Based on Edge and Cloud Computing for Smart Manufacturing. , 2019, , .		15
168	Graph Neural Networks for Modelling Traffic Participant Interaction. , 2019, , .		63
169	A Hardware-Agnostic OPC UA Skill Model for Robot Manipulators and Tools. , 2019, , .		26
170	Recognition & Evaluation of Additional Traffic Signs on the example of '80 km/h when wet'. , 2019, , .		1
171	Lane-Merging Using Policy-based Reinforcement Learning and Post-Optimization. , 2019, , .		12
172	Multi-Objective Calibration of Microscopic Traffic Simulation for Highway Traffic Safety. , 2019, , .		6
173	A Novel Method for the Absolute Pose Problem with Pairwise Constraints. Remote Sensing, 2019, 11, 3007.	4.0	3
174	From Specifications to Behavior: Maneuver Verification in a Semantic State Space. , 2019, , .		16
175	Context Discovery for Personalised Automotive Functions. , 2019, , .		2
176	Surgineering: a new type of collaboration among surgeons and engineers. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 187-190.	2.8	11
177	Applications in HHI: Physical Cooperation. , 2019, , 2221-2259.		0
178	FFOB: efficient online mode-switch procrastination in mixed-criticality systems. Real-Time Systems, 2019, 55, 471-513.	1.3	17
179	Peak Temperature Minimization for Hard Real-Time Systems Using DVS and DPM. Journal of Circuits, Systems and Computers, 2019, 28, 1950102.	1.5	1
180	Toward Brain-Inspired Learning With the Neuromorphic Snake-Like Robot and the Neurorobotic Platform. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 1-12.	3.8	19

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181	Integration of Driver Behavior into Emotion Recognition Systems: A Preliminary Study on Steering Wheel and Vehicle Acceleration. Lecture Notes in Computer Science, 2019, , 386-401.	1.3	4
182	Multi-resolution Traffic Simulation for Large-Scale High-Fidelity Evaluation of VANET Applications. Lecture Notes in Mobility, 2019, , 17-36.	0.2	9
183	Energy-Efficient Slithering Gait Exploration for a Snake-Like Robot Based on Reinforcement Learning. , 2019, , .		15
184	Tree Memory Networks for Sequence Processing. Lecture Notes in Computer Science, 2019, , 431-443.	1.3	0
185	Applying Periodic Thermal Management on Hard Real-Time Systems to Minimize Peak Temperature. Journal of Circuits, Systems and Computers, 2018, 27, 1850208.	1.5	3
186	Adas on Cots with OpenCL: A Case Study with Lane Detection. IEEE Transactions on Computers, 2018, 67, 559-565.	3.4	7
187	Image Processing Units on Ultra-low-cost Embedded Hardware: Algorithmic Optimizations for Real-time Performance. Journal of Signal Processing Systems, 2018, 90, 913-929.	2.1	4
188	INCREMENTAL CALIBRATION OF SEAT SELECTION PREFERENCES IN AGENT-BASED SIMULATIONS OF PUBLIC TRANSPORT SCENARIOS. , 2018, , .		3
189	Uncertainty Estimation for Deep Neural Object Detectors in Safety-Critical Applications. , 2018, , .		44
190	MODEL PREEMPTION BASED ON DYNAMIC ANALYSIS OF SIMULATION DATA TO ACCELERATE TRAFFIC LIGHT TIMING OPTIMISATION. , 2018, , .		2
191	Neuromorphic Vision Based Multivehicle Detection and Tracking for Intelligent Transportation System. Journal of Advanced Transportation, 2018, 2018, 1-13.	1.7	22
192	Robust vehicle-infrastructure localization using factor graph and probability data association. Journal of Communications and Networks, 2018, 20, 406-413.	2.6	4
193	Exploring Execution Schemes for Agent-Based Traffic Simulation on Heterogeneous Hardware. , 2018, ,		12
194	Robust Vehicle Infrastructure Cooperative Localization in Presence of Clutter. , 2018, , .		4
195	CARDSFlow: An End-to-End Open-Source Physics Environment for the Design, Simulation and Control of Musculoskeletal Robots. , 2018, , .		2
196	Modular Fault Ascription and Corrective Maintenance Using a Digital Twin. IFAC-PapersOnLine, 2018, 51, 1041-1046.	0.9	48
197	Hebbian learning for online prediction, neural recall and classical conditioning of anthropomimetic robot arm motions. Bioinspiration and Biomimetics, 2018, 13, 066009.	2.9	1
198	An Efficient and Time-Optimal Trajectory Generation Approach for Waypoints Under Kinematic Constraints and Error Bounds. , 2018, , .		18

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199	Spatiotemporal Motion Planning with Combinatorial Reasoning for Autonomous Driving. , 2018, , .		8
200	Experience-Based Heuristic Search: Robust Motion Planning with Deep Q-Learning. , 2018, , .		10
201	Context Prediction Architectures in Next Generation of Intelligent Cars. , 2018, , .		1
202	Deep Reinforcement Learning for Predictive Longitudinal Control of Automated Vehicles. , 2018, , .		25
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