

Oliver Obst

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

766
citations

759055

12
h-index

580701

25
g-index

42
all docs

42
docs citations

42
times ranked

738
citing authors

#	ARTICLE	IF	CITATIONS
1	Information processing in echo state networks at the edge of chaos. Theory in Biosciences, 2012, 131, 205-213.	0.6	205
2	Relating Fisher information to order parameters. Physical Review E, 2011, 84, 041116.	0.8	89
3	Wireless Sensor Network Anomalies: Diagnosis and Detection Strategies. Intelligent Systems Reference Library, 2011, , 309-325.	1.0	55
4	Spatiotemporal Anomaly Detection in Gas Monitoring Sensor Networks. , 2008, , 90-105.		42
5	Initialization and self-organized optimization of recurrent neural network connectivity. HFSP Journal, 2009, 3, 340-349.	2.5	34
6	Image Classification to Support Emergency Situation Awareness. Frontiers in Robotics and AI, 2016, 3, .	2.0	30
7	Spark "A Generic Simulator for Physical Multi-agent Simulations. Lecture Notes in Computer Science, 2004, , 243-257.	1.0	22
8	Phase transitions in least-effort communications. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P11025.	0.9	22
9	Distributed Fault Detection in Sensor Networks using a Recurrent Neural Network. Neural Processing Letters, 2014, 40, 261-273.	2.0	21
10	Quantifying Long-Range Interactions and Coherent Structure in Multi-Agent Dynamics. Artificial Life, 2017, 23, 34-57.	1.0	21
11	Using Echo State Networks for Anomaly Detection in Underground Coal Mines. , 2008, , .		15
12	Nano-scale reservoir computing. Nano Communication Networks, 2013, 4, 189-196.	1.6	13
13	Real-Time Inverse Dynamics Learning for Musculoskeletal Robots based on Echo State Gaussian Process Regression. , 0, , .		13
14	Improving Recurrent Neural Network Performance Using Transfer Entropy. Lecture Notes in Computer Science, 2010, , 193-200.	1.0	12
15	Qualitative Velocity and Ball Interception. Lecture Notes in Computer Science, 2002, , 283-298.	1.0	11
16	Towards Quantifying Interaction Networks in a Football Match. Lecture Notes in Computer Science, 2014, , 1-12.	1.0	11
17	Towards a Logical Approach for Soccer Agents Engineering. Lecture Notes in Computer Science, 2001, , 199-208.	1.0	11
18	RoboCup Simulation Leagues: Enabling Replicable and Robust Investigation of Complex Robotic Systems. IEEE Robotics and Automation Magazine, 2015, 22, 140-146.	2.2	10

#	ARTICLE	IF	CITATIONS
19	Simulation League: The Next Generation. Lecture Notes in Computer Science, 2004, , 458-469.	1.0	9
20	Fisher transfer entropy: quantifying the gain in transient sensitivity. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150610.	1.0	9
21	Flexible Coordination of Multiagent Team Behavior Using HTN Planning. Lecture Notes in Computer Science, 2006, , 521-528.	1.0	9
22	3D2Real: Simulation League Finals in Real Robots. Lecture Notes in Computer Science, 2007, , 25-34.	1.0	8
23	RoboLog Koblenz 2001. Lecture Notes in Computer Science, 2002, , 526-530.	1.0	7
24	Using a Planner for Coordination of Multiagent Team Behavior. Lecture Notes in Computer Science, 2006, , 90-100.	1.0	6
25	The Müller-Lyer Illusion in a Computational Model of Biological Object Recognition. PLoS ONE, 2013, 8, e56126.	1.1	6
26	Analysing Soccer Games with Clustering and Conceptors. Lecture Notes in Computer Science, 2018, , 120-131.	1.0	6
27	Guided Self-Organization of Input-Driven Recurrent Neural Networks. Emergence, Complexity and Computation, 2014, , 319-340.	0.2	5
28	Origins of Scaling in Genetic Code. Lecture Notes in Computer Science, 2011, , 85-93.	1.0	5
29	Complex cells decrease errors for the Müller-Lyer illusion in a model of the visual ventral stream. Frontiers in Computational Neuroscience, 2014, 8, 112.	1.2	4
30	Simulation Leagues: Analysis of Competition Formats. Lecture Notes in Computer Science, 2015, , 183-194.	1.0	4
31	Kick Extraction for Reducing Uncertainty in RoboCup Logs. Lecture Notes in Computer Science, 2015, , 622-633.	1.0	4
32	Taming the reservoir: Feedforward training for recurrent neural networks. , 2012, , .		2
33	RoboLog Koblenz 2000. Lecture Notes in Computer Science, 2001, , 469-472.	1.0	2
34	RoboCupSimData: Software and Data for Machine Learning from RoboCup Simulation League. Lecture Notes in Computer Science, 2019, , 230-237.	1.0	2
35	Nano-scale reservoir computing. , 2013, , .		1