

Pieter Simoens

List of Publications by Year in descending order

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73
papers

1,772
citations

394286

19
h-index

302012

39
g-index

76
all docs

76
docs citations

76
times ranked

1906
citing authors

#	ARTICLE	IF	CITATIONS
1	Group size and resource fractality drive multimodal search strategies: A quantitative analysis on group foraging. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, 590, 126702.	1.2	5
2	Iterative neural networks for adaptive inference on resource-constrained devices. <i>Neural Computing and Applications</i> , 2022, 34, 10321-10336.	3.2	6
3	Automated training of location-specific edge models for traffic counting. <i>Computers and Electrical Engineering</i> , 2022, 99, 107763.	3.0	3
4	Multi-branch Neural Networks for Video Anomaly Detection in Adverse Lighting and Weather Conditions. , 2022, , .		8
5	The value of measuring uncertainty in neural networks in dermoscopy. <i>Journal of the American Academy of Dermatology</i> , 2022, , .	0.6	0
6	Foraging behaviour and patch size distribution jointly determine population dynamics in fragmented landscapes. <i>Journal of the Royal Society Interface</i> , 2022, 19, .	1.5	2
7	Leveraging the Bhattacharyya coefficient for uncertainty quantification in deep neural networks. <i>Neural Computing and Applications</i> , 2021, 33, 10259-10275.	3.2	9
8	Decoupled appearance and motion learning for efficient anomaly detection in surveillance video. <i>Computer Vision and Image Understanding</i> , 2021, 210, 103249.	3.0	22
9	Data-Efficient Sensor Upgrade Path Using Knowledge Distillation. <i>Sensors</i> , 2021, 21, 6523.	2.1	4
10	Resource ephemerality influences effectiveness of altruistic behavior in collective foraging. <i>Swarm Intelligence</i> , 2021, 15, 427-457.	1.3	1
11	ChronoPilot " Modulating Time Perception. , 2021, , .		8
12	Training binary neural networks with knowledge transfer. <i>Neurocomputing</i> , 2020, 396, 534-541.	3.5	12
13	An Artificial Intelligence-Based Collaboration Approach in Industrial IoT Manufacturing: Key Concepts, Architectural Extensions and Potential Applications. <i>Sensors</i> , 2020, 20, 5480.	2.1	63
14	Adaptive Foraging in Dynamic Environments Using Scale-Free Interaction Networks. <i>Frontiers in Robotics and AI</i> , 2020, 7, 86.	2.0	7
15	Learning robots to grasp by demonstration. <i>Robotics and Autonomous Systems</i> , 2020, 127, 103474.	3.0	21
16	Hybrid foraging in patchy environments using spatial memory. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200026.	1.5	23
17	Facilitating the Analysis of COVID-19 Literature Through a Knowledge Graph. <i>Lecture Notes in Computer Science</i> , 2020, , 344-357.	1.0	14
18	Collective Decision-Making on Triadic Graphs. <i>Springer Proceedings in Complexity</i> , 2020, , 119-130.	0.2	4

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19	Construction Task Allocation Through the Collective Perception of a Dynamic Environment. Lecture Notes in Computer Science, 2020, , 82-95.	1.0	7
20	Action Graphs for Performing Goal Recognition Design on Human-Inhabited Environments. Sensors, 2019, 19, 2741.	2.1	2
21	Scale-Free Features in Collective Robot Foraging. Applied Sciences (Switzerland), 2019, 9, 2667.	1.3	9
22	Asynchronous Spiking Neurons, the Natural Key to Exploit Temporal Sparsity. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 668-678.	2.7	15
23	Robot Assistance in Dynamic Smart Environmentsâ€™A Hierarchical Continual Planning in the Now Framework. Sensors, 2019, 19, 4856.	2.1	7
24	Conversion of Synchronous Artificial Neural Network to Asynchronous Spiking Neural Network using sigma-delta quantization. , 2019, , .		17
25	Coherent collective behaviour emerging from decentralised balancing of social feedback and noise. Swarm Intelligence, 2019, 13, 321-345.	1.3	25
26	Collective sampling of environmental features under limited sampling budget. Journal of Computational Science, 2019, 31, 95-110.	1.5	3
27	Local ant system for allocating robot swarms to time-constrained tasks. Journal of Computational Science, 2019, 31, 33-44.	1.5	18
28	The Neglected Pieces of Designing Collective Decision-Making Processes. Frontiers in Robotics and AI, 2019, 6, 16.	2.0	12
29	Pro-active positioning of a social robot intervening upon behavioral disturbances of persons with dementia in a smart nursing home. Cognitive Systems Research, 2019, 57, 160-174.	1.9	10
30	Multi-fidelity deep neural networks for adaptive inference in the internet of multimedia things. Future Generation Computer Systems, 2019, 97, 355-360.	4.9	7
31	A tale of three systems: Case studies on the application of architectural tactics for cyber-foraging. Future Generation Computer Systems, 2019, 96, 119-147.	4.9	3
32	Applying Scale-Invariant Dynamics to Improve Consensus Achievement of Agents in Motion. Advances in Intelligent Systems and Computing, 2019, , 344-348.	0.5	0
33	On the Feasibility of Using Current Data Centre Infrastructure for Latency-sensitive Applications. IEEE Transactions on Cloud Computing, 2018, , 1-1.	3.1	2
34	The Internet of Robotic Things. International Journal of Advanced Robotic Systems, 2018, 15, 172988141875942.	1.3	152
35	DIANNE: a modular framework for designing, training and deploying deep neural networks on heterogeneous distributed infrastructure. Journal of Systems and Software, 2018, 141, 52-65.	3.3	17
36	The crowd as a cameraman: on-stage display of crowdsourced mobile video at large-scale events. Multimedia Tools and Applications, 2018, 77, 597-629.	2.6	2

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37	The Impact of Interaction Models on the Coherence of Collective Decision-Making: A Case Study with Simulated Locusts. Lecture Notes in Computer Science, 2018, , 252-263.	1.0	9
38	Docker Layer Placement for On-Demand Provisioning of Services on Edge Clouds. IEEE Transactions on Network and Service Management, 2018, 15, 1161-1174.	3.2	25
39	Collective Lévy Walk for Efficient Exploration in Unknown Environments. Lecture Notes in Computer Science, 2018, , 260-264.	1.0	6
40	The cascading neural network: building the Internet of Smart Things. Knowledge and Information Systems, 2017, 52, 791-814.	2.1	39
41	Service-Centric Networking for Distributed Heterogeneous Clouds. , 2017, 55, 208-215.		10
42	Interoperability for Industrial Cyber-Physical Systems: An Approach for Legacy Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 3370-3378.	7.2	133
43	Scale invariance in natural and artificial collective systems: a review. Journal of the Royal Society Interface, 2017, 14, 20170662.	1.5	46
44	Architecture for incorporating Internet-of-Things sensors and actuators into robot task planning in dynamic environments. , 2017, , .		3
45	Sensor fusion for robot control through deep reinforcement learning. , 2017, , .		15
46	Internet of Robotic Things: Context-Aware and Personalized Interventions of Assistive Social Robots (Short Paper). , 2016, , .		21
47	Distributed Neural Networks for Internet of Things: The Big-Little Approach. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 484-492.	0.2	15
48	Dynamic auto-scaling and scheduling of deadline constrained service workloads on IaaS clouds. Journal of Systems and Software, 2016, 118, 101-114.	3.3	30
49	Multi-fidelity matryoshka neural networks for constrained IoT devices. , 2016, , .		0
50	Mobile device power models for energy efficient dynamic offloading at runtime. Journal of Systems and Software, 2016, 113, 173-187.	3.3	33
51	Middleware Platform for Distributed Applications Incorporating Robots, Sensors and the Cloud. , 2016, , .		9
52	Edge Analytics in the Internet of Things. IEEE Pervasive Computing, 2015, 14, 24-31.	1.1	351
53	Discrete-event simulation for efficient and stable resource allocation in collaborative mobile cloudlets. Simulation Modelling Practice and Theory, 2015, 50, 109-129.	2.2	28
54	Platform for real-time subjective assessment of interactive multimedia applications. Multimedia Tools and Applications, 2014, 72, 749.	2.6	2

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55	Adaptive deployment and configuration for mobile augmented reality in the cloudlet. Journal of Network and Computer Applications, 2014, 41, 206-216.	5.8	38
56	Bandwidth efficient adaptive forward error correction mechanism with feedback channel. Journal of Communications and Networks, 2014, 16, 322-334.	1.8	12
57	User subscription-based resource management for Desktop-as-a-Service platforms. Journal of Supercomputing, 2014, 69, 412-428.	2.4	5
58	Network latency hiding in thin client systems through server-centric speculative display updating. Journal of Network and Computer Applications, 2014, 41, 228-239.	5.8	1
59	Leveraging Cloudlets for Immersive Collaborative Applications. IEEE Pervasive Computing, 2013, 12, 30-38.	1.1	49
60	Lowering the barriers to large-scale mobile crowdsensing. , 2013, , .		84
61	Adaptive Application Configuration and Distribution in Mobile Cloudlet Middleware. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 178-191.	0.2	4
62	Cross-layer reduction of wireless network card idle time to optimize energy consumption of pull thin client protocols. Journal of Communications and Networks, 2012, 14, 75-90.	1.8	1
63	Optimized mobile thin clients through a MPEG-4 BiFS semantic remote display framework. Multimedia Tools and Applications, 2012, 61, 447-470.	2.6	2
64	Efficient resource management for virtual desktop cloud computing. Journal of Supercomputing, 2012, 62, 741-767.	2.4	38
65	Automatic fine-grained area detection for thin client systems. Journal of Network and Computer Applications, 2012, 35, 1620-1632.	5.8	5
66	AIOLOS: Middleware for improving mobile application performance through cyber foraging. Journal of Systems and Software, 2012, 85, 2629-2639.	3.3	73
67	Dynamic deployment and quality adaptation for mobile augmented reality applications. Journal of Systems and Software, 2011, 84, 1871-1882.	3.3	33
68	Remote Display Solutions for Mobile Cloud Computing. Computer, 2011, 44, 46-53.	1.2	60
69	Power efficiency of thin clients. European Transactions on Telecommunications, 2010, 21, 479-490.	1.2	12
70	Cross-Layer Optimization of Radio Sleep Intervals to Increase Thin Client Energy Efficiency. IEEE Communications Letters, 2010, 14, 1095-1097.	2.5	9
71	Energy Efficiency in Thin Client Solutions. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 109-116.	0.2	5
72	An autonomic architecture for optimizing QoE in multimedia access networks. Computer Networks, 2009, 53, 1587-1602.	3.2	41

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73	Self management of a mobile thin client service. , 2009, , .		0