

Janos Botzheim

List of Publications by Year in descending order

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papers

825
citations

840776

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94
docs citations

94
times ranked

438
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining Reflexes and External Sensory Information in a Neuromusculoskeletal Model to Control a Quadruped Robot. IEEE Transactions on Cybernetics, 2022, 52, 7981-7994.	9.5	10
2	Placement of Optical Sensors in 3D Terrain Using a Bacterial Evolutionary Algorithm. Sensors, 2022, 22, 1161.	3.8	1
3	Improved Rapidly Exploring Random Tree with Bacterial Mutation and Node Deletion for Offline Path Planning of Mobile Robot. Electronics (Switzerland), 2022, 11, 1459.	3.1	11
4	Bacterial Evolutionary Algorithm-Trained Interpolative Fuzzy System for Mobile Robot Navigation. Electronics (Switzerland), 2022, 11, 1734.	3.1	2
5	Exploring the Effects of Caputo Fractional Derivative in Spiking Neural Network Training. Electronics (Switzerland), 2022, 11, 2114.	3.1	1
6	Bacterial Programming Based Kinematic Chain Estimation of Construction Vehicle. IEEE Access, 2021, 9, 33569-33582.	4.2	0
7	Cognitive Robotics. Electronics (Switzerland), 2021, 10, 1510.	3.1	2
8	Fuzzy rule-based model for outlier detection in a Topical Negative Pressure Wound Therapy Device. ISA Transactions, 2021, 117, 16-27.	5.7	4
9	Bead geometry modeling on uneven base metal surface by fuzzy systems for multi-pass welding. Expert Systems With Applications, 2021, 186, 115356.	7.6	4
10	Bacterial Evolutionary Algorithm-based Feature Selection for Word Sentiment Interpolation in Hungarian Language. , 2021, , .		0
11	Applying Genetic Programming for the Inverse Lindenmayer Problem. , 2021, , .		1
12	Application of the Fuzzy System for an Emotional Pattern Generator. Applied Sciences (Switzerland), 2020, 10, 6930.	2.5	2
13	Bacterial Memetic Algorithm Trained Fuzzy System-Based Model of Single Weld Bead Geometry. IEEE Access, 2020, 8, 164864-164881.	4.2	10
14	Queen Bee Based Genetic Programming Method for a Hive Like Behavior. , 2020, , .		0
15	Evolving a Sensory-Motor Interconnection Structure for Adaptive Biped Robot Locomotion. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 244-256.	3.8	9
16	Layered neural-based locomotion for biped robot movement with carrying dynamic payload. Procedia Computer Science, 2019, 159, 418-427.	2.0	2
17	Supervised Learning with Small Training Set for Gesture Recognition by Spiking Neural Networks. , 2019, , .		12
18	Parameter Optimization of Deep Learning Models by Evolutionary Algorithms. , 2019, , .		2

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19	Magnetic Angular Rate and Gravity Sensor Based Supervised Learning for Positioning Tasks. Sensors, 2019, 19, 5364.	3.8	3
20	Spiking Reflective Processing Model for Stress-Inspired Adaptive Robot Partner Applications. , 2019, , 1047-1066.		0
21	Human-Centric Automation and Optimization for Smart Homes. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1759-1771.	5.2	6
22	Bacterial Memetic Algorithms for Order Picking Routing Problem with Loading Constraints. Expert Systems With Applications, 2018, 105, 196-220.	7.6	23
23	Neuro-Activity-Based Dynamic Path Planner for 3-D Rough Terrain. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 138-150.	3.8	12
24	Evolving a Sensory-Motor Interconnection for Dynamic Quadruped Robot Locomotion Behavior. , 2018, , .		3
25	A Socially Interactive Robot Partner Using Content-Based Conversation System for Information Support. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2018, 22, 989-997.	0.9	11
26	System Integration for Cognitive Model of a Robot Partner. Intelligent Automation and Soft Computing, 2017, , 1-14.	2.1	11
27	A modular cognitive model of socially embedded robot partners for information support. ROBOMECH Journal, 2017, 4, .	1.6	11
28	Necessity and complexity of order picking routing optimisation based on pallet loading features. Acta Universitatis Sapientiae: Informatica, 2017, 9, 162-194.	0.4	4
29	From Human-Centric Systems to Community-Centric Systems. International Journal of Artificial Life Research, 2017, 7, 1-23.	0.1	6
30	Spiking Reflective Processing Model for Stress-Inspired Adaptive Robot Partner Applications. International Journal of Artificial Life Research, 2017, 7, 67-84.	0.1	0
31	Emotional Empathy Model For Robot Partners Using Recurrent Spiking Neural Network Model With Hebbian-Lms Learning. Malaysian Journal of Computer Science, 2017, 30, 258-285.	0.8	11
32	Dynamical System Algorithm Specification Analysis and Stabilization. Lecture Notes in Computer Science, 2017, , 560-569.	1.3	0
33	Weighted Constraint Satisfaction for Smart Home Automation and Optimization. Advances in Artificial Intelligence, 2016, 2016, 1-15.	0.9	2
34	Informationally structured space for multimodal monitoring in smart houses. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 511-516.	0.6	1
35	Bacterial memetic algorithm based feature selection for surface EMG based hand motion recognition in long-term use. , 2016, , .		15
36	BÄzier curve model for efficient bio-inspired locomotion of low cost four legged robot. , 2016, , .		11

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37	Human-friendly Communication for Smart Device Interlocked Robot Partners. IFAC-PapersOnLine, 2016, 49, 132-137.	0.9	1
38	Evolution strategy for anomaly detection in daily life monitoring of elderly people. , 2016, , .		7
39	Walking speed control in human behavior inspired gait generation system for biped robot. , 2016, , .		2
40	Social rhythm management support system based on Informationally Structured Space. , 2016, , .		3
41	Optimization of a Proportional-Summation-Difference Controller for a Line-Tracing Robot Using Bacterial Memetic Algorithm. Lecture Notes in Computer Science, 2016, , 362-372.	1.3	3
42	Human-centric point of view for a robot partner: A cooperative project between France and Japan. , 2016, , .		6
43	Service robot planning via solving constraint satisfaction problem. ROBOMECH Journal, 2016, 3, .	1.6	4
44	Joint probabilistic approach for real-time face recognition with transfer learning. Robotics and Autonomous Systems, 2016, 75, 409-421.	5.1	5
45	Biologically Inspired Control System for 3-D Locomotion of a Humanoid Biped Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 898-911.	9.3	49
46	Practical Robot Edutainment Activities Program for Junior High School Students. Lecture Notes in Computer Science, 2016, , 111-121.	1.3	0
47	Multi-objective evolutionary algorithm for neural oscillator based robot locomotion. , 2015, , .		12
48	Evolving spiking neural network for robot locomotion generation. , 2015, , .		3
49	Verbal conversation system for a socially embedded robot partner using emotional model. , 2015, , .		22
50	Informationally Structured Space for Life Log Monitoring in Elderly Care. , 2015, , .		5
51	Interconnection Structure Optimization for Neural Oscillator Based Biped Robot Locomotion. , 2015, , .		6
52	Fuzzy Spiking Neural Network for Abnormality Detection in Cognitive Robot Life Supporting System. , 2015, , .		3
53	A novel multimodal communication framework using robot partner for aging population. Expert Systems With Applications, 2015, 42, 4540-4555.	7.6	54
54	Structured Learning for Extraction of Daily Life Log Measured by Smart Phone Sensors. Smart Innovation, Systems and Technologies, 2015, , 277-293.	0.6	1

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55	Spiking neural network based emotional model for robot partner. , 2014, , .		5
56	Stress-inspired dynamic optimisation on working memory for cognitive robot social support systems. , 2014, , .		2
57	Conversation system for natural communication with robot partner. , 2014, , .		18
58	Gestural and facial communication with smart phone based robot partner using emotional model. , 2014, , .		12
59	Facial and gestural expression generation for robot partners. , 2014, , .		18
60	Average Edit Distance Bacterial Mutation Algorithm for effective optimisation. , 2014, , .		3
61	Robust face recognition via transfer learning for robot partner. , 2014, , .		2
62	Interactive training and modeling environment for considering pallet setup features in storage location assignment of order picking zone. , 2014, , .		0
63	Novel calculation of fuzzy exponent in the sigmoid functions for fuzzy neural networks. Neurocomputing, 2014, 129, 458-466.	5.9	16
64	Dynamic Programming for Guided Gene Transfer in Bacterial Memetic Algorithm. Lecture Notes in Computer Science, 2014, , 596-603.	1.3	4
65	Extraction of Daily Life Log Measured by Smart Phone Sensors Using Neural Computing. Procedia Computer Science, 2013, 22, 883-892.	2.0	12
66	Emotional models for multi-modal communication of robot partners. , 2013, , .		9
67	Robot Edutainment on Walking Motion of Multi-legged Robot. , 2013, , .		3
68	Cyclic motion generation for intelligent robot by evolutionary computation. , 2013, , .		2
69	Multi-objective optimization of building envelopes by bacterial memetic algorithms. , 2013, , .		1
70	Estimation of human transport modes by fuzzy spiking neural network and evolution strategy in informationally structured space. , 2013, , .		10
71	Development platform for robot partners using smart phones. , 2013, , .		12
72	Single-Stroke Character Recognition with Fuzzy Method. Studies in Computational Intelligence, 2013, , 27-46.	0.9	10

#	ARTICLE	IF	CITATIONS
73	Facilitation of Cognitive Robotics by web based computational intelligent models. , 2012, , .		4
74	Human gesture recognition for robot partners by spiking neural network and classification learning. , 2012, , .		23
75	Bacterial memetic algorithm for simultaneous optimization of path planning and flow shop scheduling problems. Artificial Life and Robotics, 2012, 17, 107-112.	1.2	7
76	Robot Partner Development Using Emotional Model Based on Sensor Network. , 2012, , .		8
77	Energy and cost optimal design for the reconstruction of residential building envelopes by bacterial memetic algorithms. , 2012, , .		3
78	Growing neural gas for information extraction in gesture recognition and reproduction of robot partners. , 2012, , .		9
79	Bacterial memetic algorithm for offline path planning of mobile robots. Memetic Computing, 2012, 4, 73-86.	4.0	50
80	Path planning for mobile robots by bacterial memetic algorithm. , 2011, , .		3
81	Interpretation of Loss Aversion in Kano's Quality Model. Smart Innovation, Systems and Technologies, 2011, , 165-174.	0.6	2
82	Modeling of loss aversion in solving fuzzy road transport traveling salesman problem using eugenic bacterial memetic algorithm. Memetic Computing, 2010, 2, 259-271.	4.0	28
83	Hierarchical fuzzy system modeling by Genetic and Bacterial Programming approaches. , 2010, , .		11
84	Comparative Investigation of Various Evolutionary and Memetic Algorithms. Studies in Computational Intelligence, 2010, , 129-140.	0.9	17
85	Fuzzy rule extraction by bacterial memetic algorithms. International Journal of Intelligent Systems, 2009, 24, 312-339.	5.7	62
86	Fuzzy Rule Base Model Identification by Bacterial Memetic Algorithms. Studies in Computational Intelligence, 2009, , 21-43.	0.9	7
87	Improvements to the Bacterial Memetic Algorithm used for Fuzzy Rule Base Extraction. , 2008, , .		18
88	Modified bacterial memetic algorithm used for fuzzy rule base extraction. , 2008, , .		10
89	Fuzzy Rule Base Extraction by the Improved Bacterial Memetic Algorithm. , 2008, , .		5
90	Increasing Diagnostic Accuracy by Meta Optimization of Fuzzy Rule Bases. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4

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91	Genetic and Bacterial Programming for B-Spline Neural Networks Design. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2007, 11, 220-231.	0.9	14
92	Bacterial Memetic Algorithm for Fuzzy Rule Base Optimization. , 2006, , .		8
93	A Conceptual Framework for Adaptive Storage Location Assignment Considering Order Characteristics. European Journal of Science and Technology, 0, , 610-614.	0.5	1