

Janos Botzheim

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

825
citations

840776

11
h-index

713466

21
g-index

94
all docs

94
docs citations

94
times ranked

438
citing authors

#	ARTICLE	IF	CITATIONS
1	Fuzzy rule extraction by bacterial memetic algorithms. International Journal of Intelligent Systems, 2009, 24, 312-339.	5.7	62
2	A novel multimodal communication framework using robot partner for aging population. Expert Systems With Applications, 2015, 42, 4540-4555.	7.6	54
3	Bacterial memetic algorithm for offline path planning of mobile robots. Memetic Computing, 2012, 4, 73-86.	4.0	50
4	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
5	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
6	Human gesture recognition for robot partners by spiking neural network and classification learning. , 2012, , .		23
7	Bacterial Memetic Algorithms for Order Picking Routing Problem with Loading Constraints. Expert Systems With Applications, 2018, 105, 196-220.	7.6	23
8	Verbal conversation system for a socially embedded robot partner using emotional model. , 2015, , .		22
9	Improvements to the Bacterial Memetic Algorithm used for Fuzzy Rule Base Extraction. , 2008, , .		18
10	Conversation system for natural communication with robot partner. , 2014, , .		18
11	Facial and gestural expression generation for robot partners. , 2014, , .		18
12	Comparative Investigation of Various Evolutionary and Memetic Algorithms. Studies in Computational Intelligence, 2010, , 129-140.	0.9	17
13	Novel calculation of fuzzy exponent in the sigmoid functions for fuzzy neural networks. Neurocomputing, 2014, 129, 458-466.	5.9	16
14	Bacterial memetic algorithm based feature selection for surface EMG based hand motion recognition in long-term use. , 2016, , .		15
15	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
16	Extraction of Daily Life Log Measured by Smart Phone Sensors Using Neural Computing. Procedia Computer Science, 2013, 22, 883-892.	2.0	12
17	Development platform for robot partners using smart phones. , 2013, , .		12
18	Gestural and facial communication with smart phone based robot partner using emotional model. , 2014, , .		12

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19	Multi-objective evolutionary algorithm for neural oscillator based robot locomotion. , 2015, , .		12
20	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
21	Supervised Learning with Small Training Set for Gesture Recognition by Spiking Neural Networks. , 2019, , .		12
22	Hierarchical fuzzy system modeling by Genetic and Bacterial Programming approaches. , 2010, , .		11
23	BÃ©zier curve model for efficient bio-inspired locomotion of low cost four legged robot. , 2016, , .		11
24	System Integration for Cognitive Model of a Robot Partner. Intelligent Automation and Soft Computing, 2017, , 1-14.	2.1	11
25	A modular cognitive model of socially embedded robot partners for information support. ROBOMECH Journal, 2017, 4, .	1.6	11
26	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
27	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
28	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
29	Modified bacterial memetic algorithm used for fuzzy rule base extraction. , 2008, , .		10
30	Estimation of human transport modes by fuzzy spiking neural network and evolution strategy in informationally structured space. , 2013, , .		10
31	Bacterial Memetic Algorithm Trained Fuzzy System-Based Model of Single Weld Bead Geometry. IEEE Access, 2020, 8, 164864-164881.	4.2	10
32	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
33	Single-Stroke Character Recognition with Fuzzy Method. Studies in Computational Intelligence, 2013, , 27-46.	0.9	10
34	Growing neural gas for information extraction in gesture recognition and reproduction of robot partners. , 2012, , .		9
35	Emotional models for multi-modal communication of robot partners. , 2013, , .		9
36	Evolving a Sensoryâ€”Motor Interconnection Structure for Adaptive Biped Robot Locomotion. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 244-256.	3.8	9

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37	Bacterial Memetic Algorithm for Fuzzy Rule Base Optimization. , 2006, , .		8
38	Robot Partner Development Using Emotional Model Based on Sensor Network. , 2012, , .		8
39	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
40	Evolution strategy for anomaly detection in daily life monitoring of elderly people. , 2016, , .		7
41	Fuzzy Rule Base Model Identification by Bacterial Memetic Algorithms. Studies in Computational Intelligence, 2009, , 21-43.	0.9	7
42	Interconnection Structure Optimization for Neural Oscillator Based Biped Robot Locomotion. , 2015, , .		6
43	Human-centric point of view for a robot partner: A cooperative project between France and Japan. , 2016, , .		6
44	From Human-Centric Systems to Community-Centric Systems. International Journal of Artificial Life Research, 2017, 7, 1-23.	0.1	6
45	Human-Centric Automation and Optimization for Smart Homes. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1759-1771.	5.2	6
46	Fuzzy Rule Base Extraction by the Improved Bacterial Memetic Algorithm. , 2008, , .		5
47	Spiking neural network based emotional model for robot partner. , 2014, , .		5
48	Informationally Structured Space for Life Log Monitoring in Elderly Care. , 2015, , .		5
49	Joint probabilistic approach for real-time face recognition with transfer learning. Robotics and Autonomous Systems, 2016, 75, 409-421.	5.1	5
50	Increasing Diagnostic Accuracy by Meta Optimization of Fuzzy Rule Bases. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4
51	Facilitation of Cognitive Robotics by web based computational intelligent models. , 2012, , .		4
52	Service robot planning via solving constraint satisfaction problem. ROBOMECH Journal, 2016, 3, .	1.6	4
53	Necessity and complexity of order picking routing optimisation based on pallet loading features. Acta Universitatis Sapientiae: Informatica, 2017, 9, 162-194.	0.4	4
54	Fuzzy rule-based model for outlier detection in a Topical Negative Pressure Wound Therapy Device. ISA Transactions, 2021, 117, 16-27.	5.7	4

#	ARTICLE	IF	CITATIONS
55	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
56	Dynamic Programming for Guided Gene Transfer in Bacterial Memetic Algorithm. Lecture Notes in Computer Science, 2014, , 596-603.	1.3	4
57	Path planning for mobile robots by bacterial memetic algorithm. , 2011, , .		3
58	Energy and cost optimal design for the reconstruction of residential building envelopes by bacterial memetic algorithms. , 2012, , .		3
59	Robot Edutainment on Walking Motion of Multi-legged Robot. , 2013, , .		3
60	Average Edit Distance Bacterial Mutation Algorithm for effective optimisation. , 2014, , .		3
61	Evolving spiking neural network for robot locomotion generation. , 2015, , .		3
62	Fuzzy Spiking Neural Network for Abnormality Detection in Cognitive Robot Life Supporting System. , 2015, , .		3
63	Social rhythm management support system based on Informationally Structured Space. , 2016, , .		3
64	Optimization of a Proportional-Sumation-Difference Controller for a Line-Tracing Robot Using Bacterial Memetic Algorithm. Lecture Notes in Computer Science, 2016, , 362-372.	1.3	3
65	Evolving a Sensory-Motor Interconnection for Dynamic Quadruped Robot Locomotion Behavior. , 2018, , .		3
66	Magnetic Angular Rate and Gravity Sensor Based Supervised Learning for Positioning Tasks. Sensors, 2019, 19, 5364.	3.8	3
67	Cyclic motion generation for intelligent robot by evolutionary computation. , 2013, , .		2
68	Stress-inspired dynamic optimisation on working memory for cognitive robot social support systems. , 2014, , .		2
69	Robust face recognition via transfer learning for robot partner. , 2014, , .		2
70	Weighted Constraint Satisfaction for Smart Home Automation and Optimization. Advances in Artificial Intelligence, 2016, 2016, 1-15.	0.9	2
71	Walking speed control in human behavior inspired gait generation system for biped robot. , 2016, , .		2
72	Layered neural-based locomotion for biped robot movement with carrying dynamic payload. Procedia Computer Science, 2019, 159, 418-427.	2.0	2

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73	Parameter Optimization of Deep Learning Models by Evolutionary Algorithms. , 2019, , .		2
74	Application of the Fuzzy System for an Emotional Pattern Generator. Applied Sciences (Switzerland), 2020, 10, 6930.	2.5	2
75	Cognitive Robotics. Electronics (Switzerland), 2021, 10, 1510.	3.1	2
76	Interpretation of Loss Aversion in Kano's Quality Model. Smart Innovation, Systems and Technologies, 2011, , 165-174.	0.6	2
77	Bacterial Evolutionary Algorithm-Trained Interpolative Fuzzy System for Mobile Robot Navigation. Electronics (Switzerland), 2022, 11, 1734.	3.1	2
78	Multi-objective optimization of building envelopes by bacterial memetic algorithms. , 2013, , .		1
79	Informationally structured space for multimodal monitoring in smart houses. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 511-516.	0.6	1
80	Human-friendly Communication for Smart Device Interlocked Robot Partners. IFAC-PapersOnLine, 2016, 49, 132-137.	0.9	1
81	Structured Learning for Extraction of Daily Life Log Measured by Smart Phone Sensors. Smart Innovation, Systems and Technologies, 2015, , 277-293.	0.6	1
82	A Conceptual Framework for Adaptive Storage Location Assignment Considering Order Characteristics. European Journal of Science and Technology, 0, , 610-614.	0.5	1
83	Placement of Optical Sensors in 3D Terrain Using a Bacterial Evolutionary Algorithm. Sensors, 2022, 22, 1161.	3.8	1
84	Applying Genetic Programming for the Inverse Lindenmayer Problem. , 2021, , .		1
85	Exploring the Effects of Caputo Fractional Derivative in Spiking Neural Network Training. Electronics (Switzerland), 2022, 11, 2114.	3.1	1
86	Interactive training and modeling environment for considering pallet setup features in storage location assignment of order picking zone. , 2014, , .		0
87	Spiking Reflective Processing Model for Stress-Inspired Adaptive Robot Partner Applications. International Journal of Artificial Life Research, 2017, 7, 67-84.	0.1	0
88	Bacterial Programming Based Kinematic Chain Estimation of Construction Vehicle. IEEE Access, 2021, 9, 33569-33582.	4.2	0
89	Practical Robot Edutainment Activities Program for Junior High School Students. Lecture Notes in Computer Science, 2016, , 111-121.	1.3	0
90	Dynamical System Algorithm Specification Analysis and Stabilization. Lecture Notes in Computer Science, 2017, , 560-569.	1.3	0

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91	Spiking Reflective Processing Model for Stress-Inspired Adaptive Robot Partner Applications. , 2019, , 1047-1066.		0
92	Queen Bee Based Genetic Programming Method for a Hive Like Behavior. , 2020, , .		0
93	Bacterial Evolutionary Algorithm-based Feature Selection for Word Sentiment Interpolation in Hungarian Language. , 2021, , .		0