

Kaoru Hirota

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,262
citations

623734

14
h-index

377865

34
g-index

60
all docs

60
docs citations

60
times ranked

449
citing authors

#	ARTICLE	IF	CITATIONS
1	A flexible representation of quantum images for polynomial preparation, image compression, and processing operations. Quantum Information Processing, 2011, 10, 63-84.	2.2	515
2	Watermarking and authentication of quantum images based on restricted geometric transformations. Information Sciences, 2012, 186, 126-149.	6.9	189
3	A FRAMEWORK FOR REPRESENTING AND PRODUCING MOVIES ON QUANTUM COMPUTERS. International Journal of Quantum Information, 2011, 09, 1459-1497.	1.1	70
4	A Multi-Channel Representation for images on quantum computers using the RGBα color space. , 2011, , .		66
5	A duple watermarking strategy for multi-channel quantum images. Quantum Information Processing, 2015, 14, 1675-1692.	2.2	49
6	Emotion space modelling for social robots. Engineering Applications of Artificial Intelligence, 2021, 100, 104178.	8.1	32
7	A Solution for the N-bit Parity Problem Using a Single Translated Multiplicative Neuron. Neural Processing Letters, 2003, 18, 233-238.	3.2	28
8	Emotion-Age-Gender-Nationality Based Intention Understanding in Human—Robot Interaction Using Two-Layer Fuzzy Support Vector Regression. International Journal of Social Robotics, 2015, 7, 709-729.	4.6	26
9	Fuzzy Inference based Mentality Expression for Eye Robot in Affinity Pleasure-Arousal Space. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2008, 12, 304-313.	0.9	25
10	Concept of Fuzzy Atmosfield for Representing Communication Atmosphere and its Application to Humans-Robots Interaction. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2013, 17, 3-17.	0.9	23
11	Fuzzy feature representation for white blood cell differential counting in acute leukemia diagnosis. International Journal of Control, Automation and Systems, 2015, 13, 742-752.	2.7	20
12	A Proposal of SIRMs (Single Input Rule Modules) Connected Fuzzy Inference Model for Plural Input Fuzzy Control. Journal of Japan Society for Fuzzy Theory and Systems, 1997, 9, 699-709.	0.0	16
13	Fuzzy Algorithm for Group Decision Making With Participants Having Finite Discriminating Abilities. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 86-95.	2.9	15
14	Soft-computing-based emotional expression mechanism for game of computer Go. Soft Computing, 2013, 17, 1263-1282.	3.6	15
15	Assessing the similarity of quantum images based on probability measurements. , 2012, , .		14
16	Dental classification for periapical radiograph based on multiple fuzzy attribute. , 2013, , .		14
17	Multi-robot behavior adaptation to local and global communication atmosphere in humans-robots interaction. Journal on Multimodal User Interfaces, 2014, 8, 289-303.	2.9	14
18	Strategy for quantum image stabilization. Science China Information Sciences, 2016, 59, 1.	4.3	13

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19	SIRMs Dynamically Connected Fuzzy Inference Model Using Dynamic Importance Degrees. Journal of Japan Society for Fuzzy Theory and Systems, 1998, 10, 522-531.	0.0	11
20	Bloch Sphere-Based Representation for Quantum Emotion Space. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2015, 19, 134-142.	0.9	10
21	Emotional states based 3-D Fuzzy Atmosfield for casual communication between humans and robots. , 2011, , .		9
22	Toward implementing efficient image processing algorithms on quantum computers. Soft Computing, 2023, 27, 13115-13127.	3.6	9
23	Variants of evolutionary learning for interactive image retrieval. Soft Computing, 2007, 11, 669-678.	3.6	8
24	Circuit-Based Modular Implementation of Quantum Ghost Imaging. IEEE Access, 2020, 8, 23054-23068.	4.2	7
25	A fuzzy theoretical approach to case-based representation and inference in CISG. Artificial Intelligence and Law, 1999, 7, 259-272.	4.0	6
26	Nonmonotonic fuzzy set operations: A generalization and some applications. International Journal of Intelligent Systems, 1997, 12, 483-493.	5.7	5
27	A cooperative driving control protocol for cooperation intelligent autonomous vehicle using VANET technology. , 2014, , .		5
28	Conceptual Framework for Quantum Affective Computing and Its Use in Fusion of Multi-Robot Emotions. Electronics (Switzerland), 2021, 10, 100.	3.1	5
29	Computational intelligence approach to real-world cooperative vehicle dispatching problem. International Journal of Intelligent Systems, 2008, 23, 619-634.	5.7	4
30	Application of fuzzy inference engine as an automatic switch between ensembles of clustering methods. , 2014, , .		4
31	Deep Level Emotion Understanding Using Customized Knowledge for Human-Robot Communication. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2015, 19, 91-99.	0.9	4
32	Framework for identifying and visualising emotional atmosphere in online learning environments in the COVID-19 Era. Applied Intelligence, 2022, 52, 9406-9422.	5.3	4
33	Conservative Betting on Sport Games with Intuitionistic Fuzzy Described Uncertainty. , 2006, , .		3
34	Image Compression and Reconstruction Using pi t -Sigma Neural Networks. Soft Computing, 2007, 11, 53-61.	3.6	3
35	An information propagation model for social networks based on continuous-time quantum walk. Neural Computing and Applications, 2022, 34, 13455-13468.	5.6	3
36	A Fuzzy Model of Interval speed Continuous Petri Nets. , 2007, , .		2

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37	Unknown odor recognition using Euclidean Fuzzy similarity-based Self-Organized Network inspired by Immune Algorithm. <i>Neural Computing and Applications</i> , 2007, 17, 27-37.	5.6	2
38	Two channel digital watermarking for music based on exponential time-spread echo kernel. <i>Signal, Image and Video Processing</i> , 2009, 3, 115-126.	2.7	2
39	Casual communication between robots and humans using fuzzy interruption technology on internet. , 2011, , .		2
40	Visualization method of emotion information for long distance interaction. , 2014, , .		2
41	Design of a Modified T-S Fuzzy Model by Adding Compensation-Rules. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 2001, 13, 322-333.	0.0	1
42	Instance-Based Color Restoration Algorithm for Still/Dynamic Images taken under Low Illumination. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 2002, 14, 320-328.	0.0	1
43	Fuzzy Road Situation Model Optimization Routing (FRSMOR) in Vehicular Ad-hoc Network (VANET). , 2012, , .		1
44	MATHEMATICAL PROPERTIES OF VARIOUS FUZZY FLIP-FLOPS AS A BASIS OF FUZZY MEMORY MODULES. <i>Advances in Fuzzy Systems</i> , 2004, , 161-178.	8.7	1
45	è†ªç,,¶ã«âš«ã²/4ã,Šè†ªç,,¶ã«çµ,ã,ã,«LIFE(LIFEã,çãf%ããfã,ã,¶ãf¼ããæ,,ÿæf³). <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1998, 10, 1175-1181.		0
46	Parameters Setting Method for Dynamic Importance Degrees in SIRMs Dynamically Connected Fuzzy Inference Model Applied to First-order Delay Plants. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1998, 10, 1175-1181.	0.0	0
47	Concept of Pseudo-afterimage and its Application to Moving Objects Detection. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 2000, 12, 417-424.	0.0	0
48	The Dyadic Curvelet Transform for Multiscale Topological Complex Networks. , 2006, , .		0
49	Instance-based location estimation algorithm for a pedestrian in multiple color dynamic images. , 2006, , .		0
50	Computational Intelligence Based Intelligence Control for Stepping Motors and a Mobile Robot is "Mascot Robot" Project. , 2007, , .		0
51	Structural expansion of fuzzy relations and its role in interactive system modeling. <i>Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics</i> , 2008, , .	0.0	0
52	Searching for structure in data with fuzzy clusters of variable dimensionality of feature subspaces. <i>Canadian Conference on Electrical and Computer Engineering</i> , 2008, , .	0.0	0
53	A solution for delivery problem based on HIMS model and service science. , 2011, , .		0
54	Interpolative reasoning approach to sparse general type-2 fuzzy rules based on the reduced grid representation. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	A visualization method of Kansei texture. , 2013, , .		0
56	Distance education system with visualized atmosphere information based on fuzzy inference. , 2014, , .		0
57	Concepts of D, T, SR Fuzzy Flip Flop and Their Circuit Design Using FPGA. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 160-168.	0.0	0
58	Torus Figure Generating System Based on Graph Theoretical Representation and Topological Analysis. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2008, 20, 625-638.	0.0	0
59	Families of t-norm based Histogram Intersections for Content-Based Image Retrieval. Transactions of Japan Society of Kansei Engineering, 2010, 10, 11-21.	0.1	0