Yingxu Wang

List of Publications by Year
in descending order

270 papers	6,536 citations	76326 40 h-index	95266 68 g-index
272 all docs	272 docs citations	272 times ranked	1154 citing authors

#	Article	IF	Citations
1	Fuzzy Semantic Models of Fuzzy Concepts in Fuzzy Systems. International Journal of Fuzzy Systems and Advanced Applications, 2022, 9, 57-62.	0.2	0
2	On the Frontiers of Software Science and Software Engineering. Frontiers in Computer Science, 2022, 3, .	2.8	3
3	Frontiers of Brain-Inspired Autonomous Systems: How Does Defense R&D Drive the Innovations?. IEEE Systems, Man, and Cybernetics Magazine, 2022, 8, 8-20.	1.4	9
4	A Proof of Goldbach Conjecture by Mirror Prime Decomposition. WSEAS Transactions on Mathematics, 2022, 21, 563-571.	0.5	8
5	On the philosophical, cognitive and mathematical foundations of symbiotic autonomous systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200362.	3.4	21
6	Diagnosis/Prognosis of COVID-19 Chest Images via Machine Learning and Hypersignal Processing: Challenges, opportunities, and applications. IEEE Signal Processing Magazine, 2021, 38, 37-66.	5.6	15
7	S-Box Construction Method Based on the Combination of Quantum Chaos and PWLCM Chaotic Map. International Journal of Cognitive Informatics and Natural Intelligence, 2021, 15, 1-17.	0.4	3
8	Towards a theoretical framework of autonomous systems underpinned by intelligence and systems sciences. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 52-63.	13.1	10
9	Perspectives on the Emerging Field of Autonomous Systems and its Theoretical Foundations. , 2021, , .		5
10	On Future Development of Autonomous Systems: A Report of the Plenary Panel at IEEE ICAS’21. , 2021, , .		8
11	An Autonomous Semantic Learning Methodology for Fake News Recognition. , 2021, , .		2
12	Advances in Autonomous Systems: A Summary of the AutoDefence Summer School at IEEE ICAS’21. , 2021, , .		0
13	A Neuroinformatics Theory for Cognitive Neurorehabilitation. , 2021, , .		0
14	Jinzhi protects lipopolysaccharide-treated mice against mortality by repairing intestinal mucosal barrier damage and intestinal microecology. Biomedicine and Pharmacotherapy, 2020, 123, 109749.	5.6	9
15	Brain-Inspired Systems: A Transdisciplinary Exploration on Cognitive Cybernetics, Humanity, and Systems Science Toward Autonomous Artificial Intelligence. IEEE Systems, Man, and Cybernetics Magazine, 2020, 6, 6-13.	1.4	48
16	Human Body Mixed Motion Pattern Recognition Method Based on Multi-Source Feature Parameter Fusion. Sensors, 2020, 20, 537.	3.8	15
17	Intelligent Mathematics (IM): Indispensable Mathematical Means for General AI, Autonomous Systems, Deep Knowledge Learning, Cognitive Robots, and Intelligence Science. , 2020, , .		6
18	A Rigorous Cognitive Theory for Autonomous Decision Making. , 2020, , .		7

#	Article	IF	Citations
19	A Tripartite Theory of Trustworthiness for Autonomous Systems. , 2020, , .		11
20	In Search of Cognitive Foundations of Creativity. , 2020, , 1170-1181.		0
21	The Cognitive and Mathematical Foundations of Analytic Epidemiology. , 2020, , .		3
22	A Cognitive Model of the Tactile Vibration Sense and Experiments on a Touch Simulation System. , 2020, , .		0
23	Abstract Intelligence. , 2020, , 52-69.		0
24	Cognitive Intelligence. , 2020, , 1500-1523.		0
25	Cognitive Computing. , 2020, , 37-51.		0
26	Quantitative Semantic Analysis and Comprehension by Cognitive Machine Learning. , 2020, , 673-688.		0
27	A Novel Machine Learning Algorithm for Cognitive Concept Elicitation by Cognitive Robots. , 2020, , 638-654.		1
28	Music Emotions Recognition by Machine Learning With Cognitive Classification Methodologies. , 2020, , 1028-1041.		0
29	Formal Software Requirement Elicitation based on Semantic Algebra and Cognitive Computing. , 2020, , .		0
30	A Methodology and Experiments towards Autonomous Decision Making. , 2020, , .		1
31	Control of Lower Limb Rehabilitation Exoskeleton Robot Based on CPG Neural Network. , 2019, , .		7
32	Design of Gibbon-Like Crawling Robot for High Voltage Transmission Line Inspection. , 2019, , .		4
33	The Emergence of Abstract Sciences and Transdisciplinary Advances: Developments in Systems, Man, and Cybernetics. IEEE Systems, Man, and Cybernetics Magazine, 2019, 5, 12-19.	1.4	16
34	Unique Dragonfly Optimization Algorithm for Harvesting and Clustering the Key Features. , 2019, , .		0
35	RTPA-based Software Generation by AI Programming. , 2019, , .		5
36	Dynamic Path Optimization for Robot Route Planning. , 2019, , .		1

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37	On the Emergence of Abstract Sciences and Breakthroughs in Machine Knowledge Learning. , 2019, , .		2
38	Sequence Learning for Images Recognition in Videos with Differential Neural Networks. , 2019, , .		5
39	Objects Detection and Recognition in Videos for Sequence Learning. , 2019, , .		2
40	On Autonomous Systems: From Reflexive, Imperative and Adaptive Intelligence to Autonomous and Cognitive Intelligence. , 2019, , .		11
41	The Spike Frequency Modulation (SFM) Theory for Neuroinformatics and Cognitive Cybernetics. , 2019, , .		1
42	A Neural Circuit Theory for Neuroinformatics and Brain-Machine Interactions. , 2019, , .		0
43	Uncertain Data Clustering in Distributed Peer-to-Peer Networks. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2392-2406.	11.3	25
44	Kinect Sensor Gesture and Activity Recognition: New Applications for Consumer Cognitive Systems. IEEE Consumer Electronics Magazine, 2018, 7, 88-94.	2.3	44
45	Cognitive Informatics. International Journal of Cognitive Informatics and Natural Intelligence, 2018, 12, 1-13.	0.4	14
46	Cognitive Computing. International Journal of Software Science and Computational Intelligence, 2018, 10, 1-14.	3.0	3
47	A Cognitive Machine Learning System for Phrases Composition and Semantic Comprehension. , 2018, , .		1
48	Brain-Inspired Systems (BIS): Cognitive Foundations and Applications. , 2018, , .		3
49	A Survey and Formal Analyses on Sequence Learning Methodologies and Deep Neural Networks. , 2018, , .		9
50	Towards a Methodology for RTPA-MATLAB Code Generation Based on Machine Learning Rules. , 2018, , .		5
51	Cognitive Foundations and Formal Theories of Human and Robot Visions. , 2018, , .		3
52	Sentence Comprehension and Semantic Syntheses by Cognitive Machine Learning. , 2018, , .		2
53	Design and Implementation of a Knowledge Base for Machine Knowledge Learning. , 2018, , .		6
54	Transfer Learning for Entropy-Weighted Fuzzy Clustering. , 2018, , .		2

#	Article	IF	Citations
55	An improved fuzzy c-means clustering algorithm with guided filter for Image Segmentation. , 2018, , .		3
56	Experimental Study of NMP Sample and Hold Input Using an Inverted Pendulum. , 2018, , .		1
57	On the Cognitive and Theoretical Foundations of Big Data Science and Engineering. New Mathematics and Natural Computation, 2017, 13, 101-117.	0.7	3
58	Fuzzy c-medoids method based on JS-divergence for uncertain data clustering. , 2017, , .		2
59	Formal Ontology Generation by deep machine learning. , 2017, , .		6
60	Spectral clustering based on JS-divergence for uncertain data. , 2017, , .		4
61	Building cognitive knowledge bases sharable by humans and cognitive robots. , 2017, , .		9
62	A hierarchical theory of system topology and distributed functional fusions. , 2017, , .		5
63	Formal concept refinement by deep cognitive machine learning. , 2017, , .		3
64	Music emotions recognition by cognitive classification methodologies. , 2017, , .		9
65	Formal rules for concept and semantics manipulations in cognitive linguistics and machine learning. , 2017, , .		5
66	Building semantic hierarchies of formal concepts by deep cognitive machine learning. , 2017, , .		5
67	Cognitive foundations of knowledge science and deep knowledge learning by cognitive robots. , 2017, , .		11
68	Big Data Analytics. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 41-56.	0.4	6
69	Abstract Intelligence. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 1-15.	0.4	27
70	A Novel Machine Learning Algorithm for Cognitive Concept Elicitation by Cognitive Robots. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 31-46.	0.4	13
71	Music Emotions Recognition by Machine Learning With Cognitive Classification Methodologies. International Journal of Cognitive Informatics and Natural Intelligence, 2017, 11, 80-92.	0.4	5
72	Dimensional Music Emotion Recognition by Machine Learning. International Journal of Cognitive Informatics and Natural Intelligence, 2016, 10, 74-89.	0.4	5

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73	On Cognitive Foundations and Mathematical Theories of Knowledge Science. International Journal of Cognitive Informatics and Natural Intelligence, 2016, 10, 1-25.	0.4	46
74	Cognitive Intelligence. International Journal of Cognitive Informatics and Natural Intelligence, 2016, 10, 1-20.	0.4	61
75	Quantitative Semantic Analysis and Comprehension by Cognitive Machine Learning. International Journal of Cognitive Informatics and Natural Intelligence, 2016, 10, 13-28.	0.4	19
76	Algorithms for determining semantic relations of formal concepts by cognitive machine learning based on concept algebra. , 2016, , .		4
77	On cognitive foundations of big data science and engineering. , 2016, , .		1
78	Deep reasoning and thinking beyond deep learning by cognitive robots and brain-inspired systems. , 2016, , .		22
79	Experiments on the supervised learning algorithm for formal concept elicitation by cognitive robots. , 2016, , .		13
80	Formal description of a supervised learning algorithm for concept elicitation by cognitive robots. , 2016, , .		6
81	From computing with words (CWW) to reasoning with fuzzy concepts (RFC). , 2016, , .		0
82	Keynote speech 1: Online machine learning for big data analytics by cognitive robots. , 2016, , .		4
83	Sample-and-Hold Inputs for Minimum-Phase Behavior of Nonminimum-Phase Systems. IEEE Transactions on Control Systems Technology, 2016, 24, 2103-2111.	5.2	13
84	Formal Properties and Mathematical Rules of Concept Algebra for Cognitive Machine Learning (I). Journal of Advanced Mathematics and Applications, 2016, 5, 53-68.	0.5	8
85	Towards the abstract system theory of system science for cognitive and intelligent systems. Complex & Intelligent Systems, 2015, 1, 1-22.	6.5	32
86	Cognitive Learning Methodologies for Brain-Inspired Cognitive Robotics. International Journal of Cognitive Informatics and Natural Intelligence, 2015, 9, 37-54.	0.4	40
87	Cognitive Informatics and Computational Intelligence. International Journal of Software Science and Computational Intelligence, 2015, 7, 50-69.	3.0	18
88	Fine-grained Differential Harmony Search algorithm. , 2015, , .		0
89	Formal properties and rules of concept algebra. , 2015, , .		7
90	A formal model inspired on human decision-making process. , 2015, , .		1

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91	Cognitive robotics and mathematical engineering. , 2015, , .		20
92	Effect of stimulating acupoint Guanyuan (CV 4) on lower back pain by burning moxa heat for different time lengths: a randomized controlled clinical trial. Journal of Traditional Chinese Medicine = Chung I Tsa Chih Ying Wen Pan / Sponsored By All-China Association of Traditional Chinese Medicine, Academy of Traditional Chinese Medicine, 2015, 35, 36-40.	0.4	11
93	Towards a fuzzy logical algebra (FLA) for formal inferences in cognitive computing and cognitive robotics. , 2015, , .		5
94	A cognitive model of motor planning for virtual creatures. , 2015, , .		0
95	A Denotational Mathematical Theory of System Science: System Algebra for Formal System Modeling and Manipulations. Journal of Advanced Mathematics and Applications, 2015, 4, 132-157.	0.5	17
96	On the Mathematical Theories and Cognitive Foundations of Information. International Journal of Cognitive Informatics and Natural Intelligence, 2015, 9, 42-64.	0.4	17
97	On the Incremental Union of Relations. International Journal of Software Science and Computational Intelligence, 2015, 7, 39-61.	3.0	2
98	Simulation and Visualization of Concept Algebra in MATLAB. International Journal of Software Science and Computational Intelligence, 2014, 6, 30-55.	3.0	12
99	Big Data Analytics on the Characteristic Equilibrium of Collective Opinions in Social Networks. International Journal of Cognitive Informatics and Natural Intelligence, 2014, 8, 29-44.	0.4	17
100	Fuzzy Causal Patterns of Humor and Jokes for Cognitive and Affective Computing. International Journal of Cognitive Informatics and Natural Intelligence, 2014, 8, 34-46.	0.4	20
101	Big Data Analyses for Collective Opinion Elicitation in Social Networks. , 2014, , .		6
102	From information revolution to intelligence revolution: Big data science vs. intelligence science. , 2014, , .		13
103	Towards a theory of fuzzy probability for cognitive computing. , 2014, , .		12
104	Software Science: On the General Mathematical Models and Formal Properties of Software. Journal of Advanced Mathematics and Applications, 2014, 3, 130-147.	0.5	40
105	Unveiling the Cognitive Mechanisms of Eyes. International Journal of Cognitive Informatics and Natural Intelligence, 2014, 8, 36-50.	0.4	19
106	A semantic algebra for cognitive linguistics and cognitive computing. , 2013, , .		13
107	COGNITIVE LINGUISTIC PERSPECTIVES ON THE CHINESE LANGUAGE. New Mathematics and Natural Computation, 2013, 09, 237-260.	0.7	11
108	Neuroinformatics Models of Human Memory. International Journal of Cognitive Informatics and Natural Intelligence, 2013, 7, 98-122.	0.4	44

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109	Perspectives on Cognitive Computers and Knowledge Processors. International Journal of Cognitive Informatics and Natural Intelligence, 2013, 7, 1-24.	0.4	25
110	<I>A Special Issue on</I> A New Frontier of Cognitive Informatics and Cognitive Computing. Journal of Computational and Theoretical Nanoscience, 2012, 9, 173-177.	0.4	0
111	Toward a Cognitive Behavioral Reference Model of Artificial Brains. Journal of Computational and Theoretical Nanoscience, 2012, 9, 178-188.	0.4	12
112	On Long Lifespan Systems and Applications. Journal of Computational and Theoretical Nanoscience, 2012, 9, 208-216.	0.4	22
113	A formal measurement of the cognitive complexity of texts in cognitive linguistics. , 2012, , .		4
114	The Cognitive Mechanisms and Formal Models of Consciousness. International Journal of Cognitive Informatics and Natural Intelligence, 2012, 6, 23-40.	0.4	31
115	Inference Algebra (IA). International Journal of Cognitive Informatics and Natural Intelligence, 2012, 6, 21-47.	0.4	48
116	Perspectives on eBrain and Cognitive Computing. International Journal of Cognitive Informatics and Natural Intelligence, 2012, 6, 1-21.	0.4	19
117	In Search of Denotational Mathematics: Novel Mathematical Means for Contemporary Intelligence, Brain, and Knowledge Sciences. Journal of Advanced Mathematics and Applications, 2012, 1, 4-26.	0.5	83
118	On Abstract Intelligence and Brain Informatics. International Journal of Cognitive Informatics and Natural Intelligence, 2012, 6, 54-80.	0.4	39
119	Cognitive computational models of emotions. , 2011, , .		11
120	On inference algebra: A formal means for machine reasoning and cognitive computing. , 2011, , .		4
121	The operational semantics of Concept Algebra for cognitive computing and machine learning. , 2011, , .		6
122	A Computational Simulation of the Cognitive Process of Children Knowledge Acquisition and Memory Development. International Journal of Cognitive Informatics and Natural Intelligence, 2011, 5, 17-36.	0.4	5
123	Towards the Synergy of Cognitive Informatics, Neural Informatics, Brain Informatics, and Cognitive Computing. International Journal of Cognitive Informatics and Natural Intelligence, 2011, 5, 75-93.	0.4	28
124	Perspectives on the Field of Cognitive Informatics and its Future Development. International Journal of Cognitive Informatics and Natural Intelligence, 2011, 5, 1-17.	0.4	58
125	Cognitive Informatics and Cognitive Computing in Year 10 and Beyond. International Journal of Cognitive Informatics and Natural Intelligence, 2011, 5, 1-21.	0.4	42
126	Semantic Manipulations and Formal Ontology for Machine Learning based on Concept Algebra. International Journal of Cognitive Informatics and Natural Intelligence, 2011, 5, 1-29.	0.4	56

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127	Inference Algebra (IA). International Journal of Cognitive Informatics and Natural Intelligence, 2011, 5, 61-82.	0.4	89
128	Abstract intelligence and cognitive robots. Paladyn, 2010, 1, .	2.7	4
129	Cognitive Robots. IEEE Robotics and Automation Magazine, 2010, 17, 54-62.	2.0	116
130	On the cognitive process of human problem solving. Cognitive Systems Research, 2010, 11, 81-92.	2.7	233
131	A Web Knowledge Discovery Engine Based on Concept Algebra. International Journal of Cognitive Informatics and Natural Intelligence, 2010, 4, 80-97.	0.4	13
132	Perspectives on Cognitive Informatics and Cognitive Computing. International Journal of Cognitive Informatics and Natural Intelligence, 2010, 4, 1-29.	0.4	75
133	ON FORMAL AND COGNITIVE SEMANTICS FOR SEMANTIC COMPUTING. International Journal of Semantic Computing, 2010, 04, 203-237.	0.5	72
134	Advances in the Fields of Cognitive Informatics and Cognitive Computing. Studies in Computational Intelligence, 2010, , 1-11.	0.9	7
135	A large-scale empirical study on the cognitive complexity of software. , 2010, , .		1
136	ON CONCEPT ALGEBRA FOR COMPUTING WITH WORDS (CWW). International Journal of Semantic Computing, 2010, 04, 331-356.	0.5	75
137	Cognitive computing and World Wide Wisdom (WWW+). , 2010, , .		16
138	Cognitive models of causal inferences using causation networks. , 2010, , .		1
139	Cognitive Informatics and Denotational Mathematical Means for Brain Informatics. Lecture Notes in Computer Science, 2010, , 2-13.	1.3	12
140	The Cognitive Process of Comprehension. International Journal of Cognitive Informatics and Natural Intelligence, 2010, 4, 44-58.	0.4	15
141	A Cognitive Informatics Reference Model of Autonomous Agent Systems (AAS). International Journal of Cognitive Informatics and Natural Intelligence, 2009, 3, 1-16.	0.4	51
142	Qualification and quantification of fuzzy linguistic variables and fuzzy expressions. , 2009, , .		1
143	A Doctrine of Cognitive Informatics (CI). Fundamenta Informaticae, 2009, 90, 203-228.	0.4	91
144	A Formal Syntax of Natural Languages and the Deductive Grammar. Fundamenta Informaticae, 2009, 90, 353-368.	0.4	35

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145	Paradigms of Denotational Mathematics for Cognitive Informatics and Cognitive Computing. Fundamenta Informaticae, 2009, 90, 283-303.	0.4	77
146	Preface: Cognitive Informatics, Cognitive Computing, and Their Denotational Mathematical Foundations (II). Fundamenta Informaticae, 2009, 90, i-vii.	0.4	0
147	Toward Formal Models of the Theoretical Framework of Fundamental Economics. Fundamenta Informaticae, 2009, 90, 443-459.	0.4	3
148	Fuzzy inferences methodologies for cognitive informatics and computational intelligence. , 2009, , .		8
149	Granular algebra for modeling granular systems and granular computing. , 2009, , .		14
150	Contemporary Cybernetics and Its Facets of Cognitive Informatics and Computational Intelligence. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 823-833.	5.0	111
151	Toward a Formal Knowledge System Theory and Its Cognitive Informatics Foundations. Lecture Notes in Computer Science, 2009, , 1-19.	1.3	22
152	Formal Description of the Cognitive Process of Memorization. Lecture Notes in Computer Science, 2009, , 81-98.	1.3	26
153	On Cognitive Foundations of Creativity and the Cognitive Process of Creation. International Journal of Cognitive Informatics and Natural Intelligence, 2009, 3, 1-18.	0.4	24
154	On Visual Semantic Algebra (VSA). International Journal of Software Science and Computational Intelligence, 2009, 1, 1-16.	3.0	58
155	On cognitive foundations of creativity and the cognitive process of creation. , 2008, , .		2
156	On Visual Semantic Algebra (VSA) and the cognitive process of pattern recognition. , 2008, , .		6
157	The cognitive processes of analysis and synthesis in formal inferences. , 2008, , .		0
158	On Long Lifespan systems. , 2008, , .		1
159	The cognitive processes of perceptions on spatiality, time, and motion. , 2008, , .		1
160	A cognitive informatics theory for visual information processing. , 2008, , .		7
161	On abstract intelligence and its denotational mathematics foundations. , 2008, , .		8
162	The cognitive processes of consciousness and attention. , 2008, , .		3

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163	RTPA. International Journal of Cognitive Informatics and Natural Intelligence, 2008, 2, 44-62.	0.4	156
164	On Concept Algebra. International Journal of Cognitive Informatics and Natural Intelligence, 2008, 2, 1-19.	0.4	198
165	On the Big-R Notation for Describing Interative and Recursive Behaviors. International Journal of Cognitive Informatics and Natural Intelligence, 2008, 2, 17-28.	0.4	57
166	On Contemporary Denotational Mathematics for Computational Intelligence. Lecture Notes in Computer Science, 2008, , 6-29.	1.3	166
167	On Mathematical Laws of Software. Lecture Notes in Computer Science, 2008, , 46-83.	1.3	42
168	On System Algebra. International Journal of Cognitive Informatics and Natural Intelligence, 2008, 2, 20-43.	0.4	80
169	Deductive Semantics of RTPA. International Journal of Cognitive Informatics and Natural Intelligence, 2008, 2, 95-121.	0.4	72
170	On Cognitive Properties of Human Factors and Error Models in Engineering and Socialization. International Journal of Cognitive Informatics and Natural Intelligence, 2008, 2, 70-84.	0.4	13
171	Toward a Generic Mathematical Model of Abstract Game Theories. Lecture Notes in Computer Science, 2008, , 205-223.	1.3	5
172	Perspectives on Denotational Mathematics: New Means of Thought. Lecture Notes in Computer Science, 2008, , 1-5.	1.3	2
173	Transformation of UML Models into Formal RTPA Specifications. , 2007, , .		1
174	Autolearner: An Autonomic Machine Learning System Based on Concept Algebra. , 2007, , .		4
175	Formal Linguistics and the Deductive Grammar. , 2007, , .		6
176	A Type Framework for Modeling Data Objects in Software Engineering. , 2007, , .		0
177	The Theoretical Framework of Cognitive Informatics. International Journal of Cognitive Informatics and Natural Intelligence, 2007, 1, 1-27.	0.4	356
178	The Theoretical Framework and Cognitive Process of Learning. , 2007, , .		44
179	A Web Knowledge Discovery Engine Based on Concept Algebra. , 2007, , .		6
180	A Knowledge Representation Tool Based on Concept Algebra. , 2007, , .		0

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181	Formal Descriptions of a Set of Meta Cognitive Processes of the Brain. , 2007, , .		3
182	On Cognitive Informatics Foundations of Knowledge and Formal Knowledge Systems. , 2007, , .		7
183	Software Costs and Schedule Estimations Based on the Work Coordination Laws. , 2007, , .		0
184	Formal Description of the Mechanisms and Cognitive Process of Memorization. , 2007, , .		8
185	Cognitive Informatics Foundations of Nature and Machine Intelligence. , 2007, , .		13
186	Applying Concept Algebra to Information Restructuring of Web Documents. , 2007, , .		0
187	The OAR Model of Neural Informatics for Internal Knowledge Representation in the Brain. International Journal of Cognitive Informatics and Natural Intelligence, 2007, 1, 66-77.	0.4	148
188	Formal Description of Time Management in Real-Time Operating Systems. , 2006, , .		1
189	Cognitive informatics models of the brain. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 203-207.	2.9	195
190	Design of a Cognitive Complexities Measurement and Analysis Tool. , 2006, , .		4
191	Implementing the Real-Time Processes of RTPA using Real-Time Java. , 2006, , .		0
192	Design and Implementation of an Automatic RTPA Code Generator. , 2006, , .		9
193	On the informatics laws and deductive semantics of software. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 161-171.	2.9	104
194	On Abstract Systems and System Algebra. , 2006, , .		11
195	Transforming RTPA Mathematical Models of System Behaviors Into C++. , 2006, , .		0
196	On Concept Algebra and Knowledge Representation. , 2006, , .		52
197	Formal Specification and Representation of Design Patterns Using RTPA. , 2006, , .		1
198	On the Big-R Notation for Describing Iterative and Recursive Behaviors. , 2006, , .		10

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199	Cognitive Complexity of Software and its Measurement. , 2006, , .		17
200	Editorial Recent Advances in Cognitive Informatics. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 121-123.	2.9	105
201	A Unified Mathematical Model of Programs. , 2006, , .		5
202	A layered reference model of the brain (LRMB). IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2006, 36, 124-133.	2.9	281
203	The OAR Model for Knowledge Representation. , 2006, , .		15
204	Formalization of UML Models by RTPA. , 2006, , .		2
205	On Constraints and Count-Measures for Software Engineering. , 2006, , .		1
206	A Mathematical Model for Explaining the Mythic Man-Month. , 2006, , .		1
207	The Formal Economic Model of Software Engineering. , 2006, , .		0
208	Cognitive Informatics: Towards Future Generation Computers that Think and Feel. , 2006, , .		84
209	Cognitive Informatics and Contemporary Mathematics for Knowledge Manipulation. Lecture Notes in Computer Science, 2006, , 69-78.	1.3	8
210	Psychological experiments on the cognitive complexities of fundamental control structures of software systems. , 2005, , .		3
211	On cognitive properties of human factors in engineering. , 2005, , .		2
212	Mathematical models and properties of games. , 2005, , .		2
213	A novel decision grid theory for dynamic decision making. , 2005, , .		5
214	Formal specification of CORBA-based distributed objects and behaviors. , 2005, , .		2
215	On the cognitive processes of human perception. , 2005, , .		8
216	Formal description of the cognitive process of problem solving. , 2004, , .		21

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217	On the cognitive informatics foundations of software engineering. , 2004, , .		10
218	On autonomous computing and cognitive processes. , 2004, , .		3
219	Formal description of the cognitive process of decision making. , 2004, , .		13
220	Specification of the RTPA grammar and its recognition. , 2004, , .		0
221	On Cognitive Informatics. Brain and Mind, 2003, 4, 151-167.	0.6	216
222	Discovering the Capacity of Human Memory. Brain and Mind, 2003, 4, 189-198.	0.6	50
223	Cognitive Informatics: A New Transdisciplinary Research Field. Brain and Mind, 2003, 4, 115-127.	0.6	103
224	Using Process Algebra to Describe Human and Software Behaviors. Brain and Mind, 2003, 4, 199-213.	0.6	71
225	Guest editorial: On Modeling Object-Oriented Information Systems. Software and Systems Modeling, 2003, -1, 1-1.	2.7	0
226	A new measure of software complexity based on cognitive weights. Canadian Journal of Electrical and Computer Engineering, 2003, 28, 69-74.	2.0	107
227	Real-Time Process Algebra and Its Applications. Lecture Notes in Computer Science, 2003, , 322-336.	1.3	5
228	Process-Based Software Engineering: Building the Infrastructures. Annals of Software Engineering, 2002, 14, 9-37.	0.5	98
229	The Real-Time Process Algebra (RTPA). Annals of Software Engineering, 2002, 14, 235-274.	0.5	239
230	On coping with real-time software dynamic inconsistency by built-in tests. Annals of Software Engineering, 1999, 7, 283-296.	0.5	9
231	A benchmark-based adaptable software process model. , 0, , .		1
232	On the informatics laws of software. , 0, , .		10
233	Case studies on translation of RTPA specifications into Java programs. , 0, , .		5
234	Design and implementation of a Web-based distributed control system. , 0, , .		8

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235	Formal specification of a real-time lift dispatching system. , 0, , .		11
236	On cognitive informatics. , 0, , .		209
237	Cognitive models of the brain. , 0, , .		38
238	A new mathematical notation for describing notion and thought in software design. , 0, , .		4
239	Measurement of the cognitive functional complexity of software. , 0, , .		23
240	On cognitive mechanism of the eyes: the sensor vs. the browser of the brain. , 0, , .		2
241	On information and knowledge representation in the brain. , 0, , .		3
242	From cognitive psychology to cognitive informatics. , 0, , .		18
243	The cognitive process of comprehension. , 0, , .		13
244	A layered reference model of the brain. , 0, , .		23
245	A practical methodology for measurement deployment in GQM. , 0, , .		2
246	An Internet-based distributed system by using real-time CORBA. , 0, , .		0
247	Formal description of an ATM system by RTPA. , 0, , .		3
248	The measurement theory for software engineering. , 0, , .		8
249	Design of a parser for real-time process algebra. , 0, , .		2
250	Specification of abstract data types using real-time process algebra (RTFA). , 0, , .		3
251	Formal description of the cognitive comprehension process. , 0, , .		2
252	A new measure of software complexity based on cognitive weights. , 0, , .		6

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253	Implementing task scheduling and event handling in RTOS+. , 0, , .		3
254	Exploring Java code generation based on formal specifications in RTPA. , 0, , .		5
255	An extension of SEMEST: the online software engineering measurement tool. , 0, , .		1
256	A new approach to test case generation based on real-time process algebra (RTPA). , 0, , .		1
257	Specification of design patterns using real-time process algebra (RTPA). , 0, , .		7
258	A novel type checker for software system specifications in RTPA. , 0, , .		4
259	Economic models of software engineering and the software maintenance crisis. , 0, , .		2
260	System science models of software engineering. , 0, , .		3
261	A framework for testing distributed software components. , 0, , .		4
262	An operational semantics for RTPA. , 0, , .		0
263	Design of a real-time virtual machine (RTVM). , 0, , .		2
264	On the mathematical laws of software. , 0, , .		5
265	Denotational semantics for RTPA. , 0, , .		1
266	Formal description of a real-time process dispatcher. , 0, , .		1
267	Formal models of object-oriented patterns using RTPA. , 0, , .		3
268	Sociological models of software engineering. , 0, , .		2
269	Representation of knowledge and inference rules in SEMEST+. , 0, , .		0
270	Formal description of the ADT model of files using RTPA. , 0, , .		0