

Caro Lucas

List of Publications by Year in descending order

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104
papers

4,530
citations

186265

28
h-index

175258

52
g-index

105
all docs

105
docs citations

105
times ranked

3294
citing authors

#	ARTICLE	IF	CITATIONS
1	Generating flexible convex hyper-polygon validity regions via sigmoid-based membership functions in TS modeling. Applied Soft Computing Journal, 2015, 28, 589-598.	7.2	3
2	Artificial bee colony based learning of local linear neuro-fuzzy models. , 2013, , .		5
3	Evolving Takagi-Sugeno fuzzy model based on switching to neighboring models. Applied Soft Computing Journal, 2013, 13, 939-946.	7.2	31
4	Online extraction of main linear trends for nonlinear time-varying processes. Information Sciences, 2013, 220, 22-33.	6.9	4
5	BANDWIDTH-SENSITIVE ROUTING: FROM INDIVIDUALISM TO COLLECTIVISM. Cybernetics and Systems, 2012, 43, 199-226.	2.5	0
6	Adaptive prediction of epileptic seizures from intracranial recordings. Biomedical Signal Processing and Control, 2012, 7, 456-464.	5.7	15
7	Applying Brain Emotional Learning Based Intelligent Controller (BELBIC) to Multiple-Area Power Systems. Asian Journal of Control, 2012, 14, 1580-1588.	3.0	11
8	Adaptive neuro-fuzzy inference systems for semi-automatic discrimination between seismic events: a study in Tehran region. Journal of Seismology, 2012, 16, 291-303.	1.3	7
9	Introducing evolving Takagi-Sugeno method based on local least squares support vector machine models. Evolving Systems, 2012, 3, 81-93.	3.9	24
10	Fast evolving neuro-fuzzy model and its application in online classification and time series prediction. Pattern Analysis and Applications, 2012, 15, 279-288.	4.6	5
11	Multiobjective invasive weed optimization: Application to analysis of Pareto improvement models in electricity markets. Applied Soft Computing Journal, 2012, 12, 100-112.	7.2	56
12	Identification and real-time position control of a servo-hydraulic rotary actuator by means of a neurobiologically motivated algorithm. ISA Transactions, 2012, 51, 208-219.	5.7	38
13	A new systematic design for Habitually Linear Evolving TS Fuzzy Model. Expert Systems With Applications, 2012, 39, 1725-1736.	7.6	15
14	A Rough Set Approach Aim to Space Weather and Solar Storms Prediction. Lecture Notes in Computer Science, 2011, , 588-601.	1.3	0
15	Speed and Flux Control of Induction Motors Using Emotional Intelligent Controller. IEEE Transactions on Industry Applications, 2011, 47, 1126-1135.	4.9	55
16	Online Multi-step Ahead Prediction of Time-Varying Solar and Geomagnetic Activity Indices via Adaptive Neurofuzzy Modeling and Recursive Spectral Analysis. Solar Physics, 2011, 272, 189-213.	2.5	7
17	A comparative study of various intelligent based controllers for speed control of IPMSM drives in the field-weakening region. Expert Systems With Applications, 2011, 38, 12643-12653.	7.6	23
18	Sensorless speed control of switched reluctance motor using brain emotional learning based intelligent controller. Energy Conversion and Management, 2011, 52, 85-96.	9.2	42

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19	WLoLiMoT: A Wavelet and LoLiMoT Based Algorithm for Time Series Prediction. , 2011, , 345-355.		2
20	Application of various methods for 2D inverse modeling of residual gravity anomalies. Acta Geophysica, 2010, 58, 317-336.	2.0	16
21	An online predictor model as adaptive habitually linear and transiently nonlinear model. Evolving Systems, 2010, 1, 29-41.	3.9	31
22	Recursive Gath-Geva clustering as a basis for evolving neuro-fuzzy modeling. Evolving Systems, 2010, 1, 59-71.	3.9	63
23	Application of an imperialist competitive algorithm to the design of a linear induction motor. Energy Conversion and Management, 2010, 51, 1407-1411.	9.2	133
24	Introducing adaptive neurofuzzy modeling with online learning method for prediction of time-varying solar and geomagnetic activity indices. Expert Systems With Applications, 2010, 37, 8267-8277.	7.6	18
25	Prediction of financial time series with recurrent LoLiMot (locally linear model tree). , 2010, , .		1
26	A hybrid speed sensorless MTPA vector controller for IPMSM drive incorporated with online parameter identification. , 2010, , .		0
27	Decision making strategy in the designing of a fuzzy controller for inverted pendulum-cart system. , 2010, , .		2
28	Individual Differences in Nucleus Accumbens Dopamine Receptors Predict Development of Addiction-Like Behavior: A Computational Approach. Neural Computation, 2010, 22, 2334-2368.	2.2	37
29	Motion Control of Omni-Directional Three-Wheel Robots by Brain-Emotional-Learning-Based Intelligent Controller. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 630-638.	2.9	70
30	Recursive Gath-Geva clustering as a basis for evolving neuro-fuzzy modeling. , 2010, , .		17
31	Imitative learning based emotional controller for unknown systems with unstable equilibrium. International Journal of Intelligent Computing and Cybernetics, 2010, 3, 334-359.	2.7	7
32	Face Localization Using an Effective Co-evolutionary Genetic Algorithm. , 2010, , .		1
33	Acquisition of shared symbols in multi-agent cooperative tasks. , 2009, , .		0
34	The Application of the Locally Linear Model Tree on Customer Churn Prediction. , 2009, , .		13
35	Improving EEG signal prediction via SSA and channel selection. , 2009, , .		2
36	Discrete invasive weed optimization algorithm: application to cooperative multiple task assignment of UAVs. , 2009, , .		14

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37	A Neurocomputational Model for Cocaine Addiction. <i>Neural Computation</i> , 2009, 21, 2869-2893.	2.2	43
38	Effective spatial clustering methods for optimal facility establishment. <i>Intelligent Data Analysis</i> , 2009, 13, 61-84.	0.9	5
39	Model-based fault detection and isolation of a steam generator using neuro-fuzzy networks. <i>Neurocomputing</i> , 2009, 72, 2939-2951.	5.9	84
40	Fuzzy descriptor systems and spectral analysis for chaotic time series prediction. <i>Neural Computing and Applications</i> , 2009, 18, 991-1004.	5.6	3
41	Input Selection Based on Information Theory for Constructing Predictor Models of Solar and Geomagnetic Activity Indices. <i>Solar Physics</i> , 2009, 258, 297-318.	2.5	3
42	Long-term prediction of solar and geomagnetic activity daily time series using singular spectrum analysis and fuzzy descriptor models. <i>Earth, Planets and Space</i> , 2009, 61, 1089-1101.	2.5	6
43	Optimal Placement of Phasor Measurement Units Using Immunity Genetic Algorithm. <i>IEEE Transactions on Power Delivery</i> , 2009, 24, 1014-1020.	4.3	322
44	Online identification of a neuro-fuzzy model through indirect fuzzy clustering of data space. , 2009, , .		4
45	Imperialist competitive algorithm for minimum bit error rate beamforming. <i>International Journal of Bio-Inspired Computation</i> , 2009, 1, 125.	0.9	96
46	A hybrid IWO/PSO algorithm for fast and global optimization. , 2009, , .		35
47	Cooperative coevolutionary invasive weed optimization and its application to Nash equilibrium search in electricity markets. , 2009, , .		7
48	Emotional control of inverted pendulum system: A soft switching from imitative to emotional learning. , 2009, , .		8
49	NEURO-FUZZY BASED FAULT DIAGNOSIS OF A STEAM GENERATOR. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 1180-1185.	0.4	15
50	Nonlinear optimal control of washing machine based on approximate solution of HJB equation. <i>Optimal Control Applications and Methods</i> , 2008, 29, 1-18.	2.1	4
51	Emotional learning based intelligent controller for a PWR nuclear reactor core during load following operation. <i>Annals of Nuclear Energy</i> , 2008, 35, 2051-2058.	1.8	61
52	BARP-A Dynamic Routing Protocol for Balanced Distribution of Traffic in NoCs. , 2008, , .		20
53	Colonial competitive algorithm. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2008, 1, 337-355.	2.7	211
54	Designing MIMO PIID controller using colonial competitive algorithm: Applied to distillation column process. , 2008, , .		28

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55	Reinforcement _recurrent fuzzy rule based system based on brain emotional learning structure to predict the complexity dynamic system. , 2008, , .		10
56	Nonlinear Control and Disturbance Decoupling of HVAC Systems Using Feedback Linearization and Backstepping With Load Estimation. IEEE Transactions on Control Systems Technology, 2008, 16, 918-929.	5.2	43
57	Implementation of Emotional Controller for Interior Permanent-Magnet Synchronous Motor Drive. IEEE Transactions on Industry Applications, 2008, 44, 1466-1476.	4.9	93
58	DESIGN OF AN AEROSPACE LAUNCH VEHICLE AUTOPILOT BASED ON OPTIMIZED EMOTIONAL LEARNING ALGORITHM. Cybernetics and Systems, 2008, 39, 284-303.	2.5	12
59	A particle-swarm-based approach for optimum design of BELBIC controller in AVR system. , 2008, , .		14
60	A study of electricity market dynamics using Invasive Weed Colonization Optimization. , 2008, , .		31
61	Optimal fuzzy passing strategy for robot soccer players. , 2008, , .		0
62	Fuzzy Clustering of Transient Evoked OtoAcoustic Emission Signals Using Gustafson Kessel Algorithm. , 2008, , .		0
63	How can fuzzy logic determine game equilibriums better?. , 2008, , .		7
64	MODEL BASED FAULT DIAGNOSIS OF A PWR NUCLEAR POWER PLANT USING FUZZY INFERENCE APPROACH. , 2008, , .		0
65	Using Neurofuzzy Models and Spectral Analysis for Prediction of the Exotic Phenomena with Catastrophic Jumps. Lecture Notes in Computer Science, 2008, , 1156-1170.	1.3	0
66	On the Effectiveness of Prioritized User-Profile and Detecting Active Users in Collaborative Filtering Recommender Systems. , 2007, , .		2
67	A New Approach to Spatio-Temporal Calculation of Nuclear Reactor Cores Using Neural Computing. Nuclear Science and Engineering, 2007, 155, 119-130.	1.1	7
68	Power management by brain emotional learning algorithm. , 2007, , .		2
69	Input Stimuli Evolution for RFID Tag Functional Verification. , 2007, , .		1
70	Combination of Singular Spectrum Analysis and Autoregressive Model for Short Term Load Forecasting. , 2007, , .		20
71	A New Split and Merge Algorithm for Structure Identification in Takagi-Sugeno Fuzzy Model. , 2007, , .		6
72	Imperialist competitive algorithm: An algorithm for optimization inspired by imperialistic competition. , 2007, , .		1,495

#	ARTICLE	IF	CITATIONS
73	Forecasting sunspot numbers with the aid of fuzzy descriptor models. <i>Space Weather</i> , 2007, 5, .	3.7	18
74	INTELLIGENT ADAPTIVE CONTROL OF NON-LINEAR SYSTEMS BASED ON EMOTIONAL LEARNING APPROACH. <i>International Journal on Artificial Intelligence Tools</i> , 2007, 16, 69-85.	1.0	7
75	User Modeling for the Result Re-Ranking in the Meta-Search Engines via Reinforcement Learning. , 2007, , .		1
76	Combined Intelligent Control (CIC) an Intelligent Decision Making Algorithm. <i>International Journal of Advanced Robotic Systems</i> , 2007, 4, 6.	2.1	1
77	A heuristic algorithm for clustering rooted ordered trees. <i>Intelligent Data Analysis</i> , 2007, 11, 355-376.	0.9	4
78	Brain emotional learning based intelligent controller applied to neurofuzzy model of micro-heat exchanger. <i>Expert Systems With Applications</i> , 2007, 32, 911-918.	7.6	95
79	Aggregation of web search engines based on usersâ€™ preferences in WebFusion. <i>Knowledge-Based Systems</i> , 2007, 20, 321-328.	7.1	50
80	Lumped thermal model for switched reluctance motor applied to mechanical design optimization. <i>Mathematical and Computer Modelling</i> , 2007, 45, 625-638.	2.0	29
81	A New Approach for Image Watermarking by using Particle Swarm Optimization. , 2007, , .		12
82	Extracting the main patterns of natural time series for long-term neurofuzzy prediction. <i>Neural Computing and Applications</i> , 2007, 16, 383-393.	5.6	40
83	A New Split and Merge Algorithm for Structure Identification in Takagi-Sugeno Fuzzy Model. , 2007, , .		0
84	User Modeling for the Result Re-Ranking in the Meta-Search Engines via Reinforcement Learning. , 2007, , .		0
85	Locally linear neurofuzzy modeling and prediction of geomagnetic disturbances based on solar wind conditions. <i>Space Weather</i> , 2006, 4, n/a-n/a.	3.7	19
86	Multi-step prediction of Dst index using singular spectrum analysis and locally linear neurofuzzy modeling. <i>Earth, Planets and Space</i> , 2006, 58, 331-341.	2.5	22
87	Implementation of Emotional Controller for Interior Permanent Magnet Synchronous Motor Drive. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006, , .	0.0	58
88	Aerospace launch vehicle control: an intelligent adaptive approach. <i>Aerospace Science and Technology</i> , 2006, 10, 149-155.	4.8	75
89	Predicting Chaotic Time Series Using Neural and Neurofuzzy Models: A Comparative Study. <i>Neural Processing Letters</i> , 2006, 24, 217-239.	3.2	122
90	Fuzzy-AHP method for measuring Intellectual Capital in Iran insurance industry. , 2006, , .		1

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91	NEUROFUZZY MODELING OF NATURAL FREQUENCIES OF CYLINDRICAL SHELLS APPLIED TO EVOLUTIONARY BASED OPTIMAL DESIGN OF SR MOTORS. International Journal of Computational Methods, 2006, 03, 263-277.	1.3	2
92	Mixture weighted gating and its application to target tracking. , 2006, , .		1
93	Who Moved?! An Investigation into Distribution of Actions and Behaviors in a Multi Agent System. , 2006, , .		0
94	Modified Passivity-Based Control of Switched-Reluctance Motor with Speed and Load Torque Observers. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	6
95	Optimizing High Speed Flip-Flop Using Genetic Algorithm. , 2006, , .		2
96	INTELLIGENT MODELING AND CONTROL OF WASHING MACHINE USING LOCALLY LINEAR NEUROFUZZY (LLNF) MODELING AND MODIFIED BRAIN EMOTIONAL LEARNING BASED INTELLIGENT CONTROLLER (BELBIC). Asian Journal of Control, 2006, 8, 393-400.	3.0	49
97	Solar activity forecast: Spectral analysis and neurofuzzy prediction. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 595-603.	1.6	54
98	APPLICATION OF ACTOR-CRITIC REINFORCEMENT LEARNING METHOD FOR CONTROL OF A SAGITTAL ARM DURING OSCILLATORY MOVEMENT. Biomedical Engineering - Applications, Basis and Communications, 2004, 16, 305-312.	0.6	6
99	Axial offset control of PWR nuclear reactor core using intelligent techniques. Nuclear Engineering and Design, 2004, 227, 285-300.	1.7	23
100	Black box modeling of magnetospheric dynamics to forecast geomagnetic activity. Space Weather, 2004, 2, n/a-n/a.	3.7	15
101	Introducing Belbic: Brain Emotional Learning Based Intelligent Controller. Intelligent Automation and Soft Computing, 2004, 10, 11-21.	2.1	269
102	An intelligent nuclear reactor core controller for load following operations, using recurrent neural networks and fuzzy systems. Annals of Nuclear Energy, 2003, 30, 63-80.	1.8	44
103	Implementation of a Genetically Optimized Interpolative Fuzzy Inference Engine in Controlling a Ball-Plate Laboratory Setup. , 2003, , .		4
104	Identification of a nuclear reactor core (VVER) using recurrent neural networks. Annals of Nuclear Energy, 2002, 29, 1225-1240.	1.8	27