

Caro Lucas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

3,247
citations

26
h-index

56
g-index

105
ext. papers

3,805
ext. citations

3.4
avg, IF

5.37
L-index

#	Paper	IF	Citations
90	Generating flexible convex hyper-polygon validity regions via sigmoid-based membership functions in TS modeling. <i>Applied Soft Computing Journal</i> , 2015 , 28, 589-598	7.5	2
89	Artificial bee colony based learning of local linear neuro-fuzzy models 2013 ,		3
88	Evolving TakagiSugeno fuzzy model based on switching to neighboring models. <i>Applied Soft Computing Journal</i> , 2013 , 13, 939-946	7.5	25
87	Online extraction of main linear trends for nonlinear time-varying processes. <i>Information Sciences</i> , 2013 , 220, 22-33	7.7	4
86	Identification and real-time position control of a servo-hydraulic rotary actuator by means of a neurobiologically motivated algorithm. <i>ISA Transactions</i> , 2012 , 51, 208-19	5.5	25
85	A new systematic design for Habitually Linear Evolving TS Fuzzy Model. <i>Expert Systems With Applications</i> , 2012 , 39, 1725-1736	7.8	14
84	Adaptive prediction of epileptic seizures from intracranial recordings. <i>Biomedical Signal Processing and Control</i> , 2012 , 7, 456-464	4.9	13
83	Applying Brain Emotional Learning Based Intelligent Controller (Belbic) to Multiple-Area Power Systems. <i>Asian Journal of Control</i> , 2012 , 14, 1580-1588	1.7	9
82	Adaptive neuro-fuzzy inference systems for semi-automatic discrimination between seismic events: a study in Tehran region. <i>Journal of Seismology</i> , 2012 , 16, 291-303	1.5	5
81	Introducing evolving TakagiSugeno method based on local least squares support vector machine models. <i>Evolving Systems</i> , 2012 , 3, 81-93	2.1	22
80	Fast evolving neuro-fuzzy model and its application in online classification and time series prediction. <i>Pattern Analysis and Applications</i> , 2012 , 15, 279-288	2.3	4
79	Multiobjective invasive weed optimization: Application to analysis of Pareto improvement models in electricity markets. <i>Applied Soft Computing Journal</i> , 2012 , 12, 100-112	7.5	48
78	BANDWIDTH-SENSITIVE ROUTING: FROM INDIVIDUALISM TO COLLECTIVISM. <i>Cybernetics and Systems</i> , 2012 , 43, 199-226	1.9	
77	BELBIC and Its Industrial Applications: Towards Embedded Neuroemotional Control Codesign 2011 , 203-214		5
76	A Rough Set Approach Aim to Space Weather and Solar Storms Prediction. <i>Lecture Notes in Computer Science</i> , 2011 , 588-601	0.9	
75	. <i>IEEE Transactions on Industry Applications</i> , 2011 , 47, 1126-1135	4.3	45
74	Online Multi-step Ahead Prediction of Time-Varying Solar and Geomagnetic Activity Indices via Adaptive Neurofuzzy Modeling and Recursive Spectral Analysis. <i>Solar Physics</i> , 2011 , 272, 189-213	2.6	6

73	A comparative study of various intelligent based controllers for speed control of IPMSM drives in the field-weakening region. <i>Expert Systems With Applications</i> , 2011 , 38, 12643-12653	7.8	21
72	Sensorless speed control of switched reluctance motor using brain emotional learning based intelligent controller. <i>Energy Conversion and Management</i> , 2011 , 52, 85-96	10.6	33
71	WLoLiMoT: A Wavelet and LoLiMoT Based Algorithm for Time Series Prediction 2011 , 345-355		2
70	Prediction of financial time series with recurrent LoLiMot (locally linear model tree) 2010 ,		1
69	Individual differences in nucleus accumbens dopamine receptors predict development of addiction-like behavior: a computational approach. <i>Neural Computation</i> , 2010 , 22, 2334-68	2.9	30
68	Motion Control of Omni-Directional Three-Wheel Robots by Brain-Emotional-Learning-Based Intelligent Controller. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2010 , 40, 630-638		51
67	Recursive Gath-Geva clustering as a basis for evolving neuro-fuzzy modeling 2010 ,		5
66	Imitative learning based emotional controller for unknown systems with unstable equilibrium. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2010 , 3, 334-359	2.2	3
65	Application of various methods for 2D inverse modeling of residual gravity anomalies. <i>Acta Geophysica</i> , 2010 , 58, 317-336	2.2	12
64	An online predictor model as adaptive habitually linear and transiently nonlinear model. <i>Evolving Systems</i> , 2010 , 1, 29-41	2.1	29
63	Recursive Gath-Geva clustering as a basis for evolving neuro-fuzzy modeling. <i>Evolving Systems</i> , 2010 , 1, 59-71	2.1	51
62	Application of an imperialist competitive algorithm to the design of a linear induction motor. <i>Energy Conversion and Management</i> , 2010 , 51, 1407-1411	10.6	109
61	Introducing adaptive neurofuzzy modeling with online learning method for prediction of time-varying solar and geomagnetic activity indices. <i>Expert Systems With Applications</i> , 2010 , 37, 8267-8277	7.8	16
60	The Application of the Locally Linear Model Tree on Customer Churn Prediction 2009 ,		10
59	Discrete invasive weed optimization algorithm: application to cooperative multiple task assignment of UAVs 2009 ,		7
58	A neurocomputational model for cocaine addiction. <i>Neural Computation</i> , 2009 , 21, 2869-93	2.9	34
57	Effective spatial clustering methods for optimal facility establishment. <i>Intelligent Data Analysis</i> , 2009 , 13, 61-84	1.1	4
56	Model-based fault detection and isolation of a steam generator using neuro-fuzzy networks. <i>Neurocomputing</i> , 2009 , 72, 2939-2951	5.4	71

55	Fuzzy descriptor systems and spectral analysis for chaotic time series prediction. <i>Neural Computing and Applications</i> , 2009 , 18, 991-1004	4.8	3
54	Input Selection Based on Information Theory for Constructing Predictor Models of Solar and Geomagnetic Activity Indices. <i>Solar Physics</i> , 2009 , 258, 297-318	2.6	2
53	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	2.9	4
52	Optimal Placement of Phasor Measurement Units Using Immunity Genetic Algorithm. <i>IEEE Transactions on Power Delivery</i> , 2009 , 24, 1014-1020	4.3	228
51	Online identification of a neuro-fuzzy model through indirect fuzzy clustering of data space 2009 ,		4
50	Imperialist competitive algorithm for minimum bit error rate beamforming. <i>International Journal of Bio-Inspired Computation</i> , 2009 , 1, 125	2.9	72
49	A hybrid IWO/PSO algorithm for fast and global optimization 2009 ,		22
48	Cooperative coevolutionary invasive weed optimization and its application to Nash equilibrium search in electricity markets 2009 ,		6
47	Emotional control of inverted pendulum system: A soft switching from imitative to emotional learning 2009 ,		4
46	NEURO-FUZZY BASED FAULT DIAGNOSIS OF A STEAM GENERATOR. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1180-1185		10
45	INTELLIGENT MODELING AND CONTROL OF WASHING MACHINE USING LOCALLY LINEAR NEURO-FUZZY (LLNF) MODELING AND MODIFIED BRAIN EMOTIONAL LEARNING BASED INTELLIGENT CONTROLLER (BELBIC). <i>Asian Journal of Control</i> , 2008 , 8, 393-400	1.7	32
44	BARP-A Dynamic Routing Protocol for Balanced Distribution of Traffic in NoCs 2008 ,		5
43	Colonial competitive algorithm. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2008 , 1, 337-355	2.2	169
42	Designing MIMO PIID controller using colonial competitive algorithm: Applied to distillation column process 2008 ,		21
41	Reinforcement _recurrent fuzzy rule based system based on brain emotional learning structure to predict the complexity dynamic system 2008 ,		9
40	Nonlinear Control and Disturbance Decoupling of HVAC Systems Using Feedback Linearization and Backstepping With Load Estimation. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 918-929	4.8	32
39	Implementation of Emotional Controller for Interior Permanent-Magnet Synchronous Motor Drive. <i>IEEE Transactions on Industry Applications</i> , 2008 , 44, 1466-1476	4.3	75
38	DESIGN OF AN AEROSPACE LAUNCH VEHICLE AUTOPILOT BASED ON OPTIMIZED EMOTIONAL LEARNING ALGORITHM. <i>Cybernetics and Systems</i> , 2008 , 39, 284-303	1.9	12

37	A particle-swarm-based approach for optimum design of BELBIC controller in AVR system 2008 ,		13
36	A study of electricity market dynamics using Invasive Weed Colonization Optimization 2008 ,		20
35	How can fuzzy logic determine game equilibriums better? 2008 ,		7
34	Nonlinear optimal control of washing machine based on approximate solution of HJB equation. <i>Optimal Control Applications and Methods</i> , 2008 , 29, 1-18	1.7	3
33	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	1.7	50
32	Using Neurofuzzy Models and Spectral Analysis for Prediction of the Exotic Phenomena with Catastrophic Jumps. <i>Lecture Notes in Computer Science</i> , 2008 , 1156-1170	0.9	
31	A New Split and Merge Algorithm for Structure Identification in Takagi-Sugeno Fuzzy Model 2007 ,		4
30	Imperialist competitive algorithm: An algorithm for optimization inspired by imperialistic competition 2007 ,		963
29	Forecasting sunspot numbers with the aid of fuzzy descriptor models. <i>Space Weather</i> , 2007 , 5, n/a-n/a	3.7	10
28	INTELLIGENT ADAPTIVE CONTROL OF NON-LINEAR SYSTEMS BASED ON EMOTIONAL LEARNING APPROACH. <i>International Journal on Artificial Intelligence Tools</i> , 2007 , 16, 69-85	0.9	5
27	User Modeling for the Result Re-Ranking in the Meta-Search Engines via Reinforcement Learning 2007 ,		1
26	Combined Intelligent Control (CIC) an Intelligent Decision Making Algorithm. <i>International Journal of Advanced Robotic Systems</i> , 2007 , 4, 6	1.4	
25	A heuristic algorithm for clustering rooted ordered trees. <i>Intelligent Data Analysis</i> , 2007 , 11, 355-376	1.1	2
24	Brain emotional learning based intelligent controller applied to neurofuzzy model of micro-heat exchanger. <i>Expert Systems With Applications</i> , 2007 , 32, 911-918	7.8	77
23	Aggregation of web search engines based on users preferences in WebFusion. <i>Knowledge-Based Systems</i> , 2007 , 20, 321-328	7.3	38
22	Lumped thermal model for switched reluctance motor applied to mechanical design optimization. <i>Mathematical and Computer Modelling</i> , 2007 , 45, 625-638		19
21	A New Approach for Image Watermarking by using Particle Swarm Optimization 2007 ,		7
20	Extracting the main patterns of natural time series for long-term neurofuzzy prediction. <i>Neural Computing and Applications</i> , 2007 , 16, 383-393	4.8	28

19	A New Approach to Spatio-Temporal Calculation of Nuclear Reactor Cores Using Neural Computing. <i>Nuclear Science and Engineering</i> , 2007 , 155, 119-130	1.2	6
18	Combination of Singular Spectrum Analysis and Autoregressive Model for Short Term Load Forecasting 2007 ,		13
17	Fuzzy-AHP method for measuring Intellectual Capital in Iran insurance industry 2006 ,		1
16	NEUROFUZZY MODELING OF NATURAL FREQUENCIES OF CYLINDRICAL SHELLS APPLIED TO EVOLUTIONARY BASED OPTIMAL DESIGN OF SR MOTORS. <i>International Journal of Computational Methods</i> , 2006 , 03, 263-277	1.1	2
15	Modified Passivity-Based Control of Switched-Reluctance Motor with Speed and Load Torque Observers. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		3
14	Optimizing High Speed Flip-Flop Using Genetic Algorithm 2006 ,		2
13	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	15
12	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	2.9	21
11	Implementation of Emotional Controller for Interior Permanent Magnet Synchronous Motor Drive. <i>Conference Record - IAS Annual Meeting (IEEE Industry Applications Society)</i> , 2006 ,		14
10	Aerospace launch vehicle control: an intelligent adaptive approach. <i>Aerospace Science and Technology</i> , 2006 , 10, 149-155	4.9	58
9	Predicting Chaotic Time Series Using Neural and Neurofuzzy Models: A Comparative Study. <i>Neural Processing Letters</i> , 2006 , 24, 217-239	2.4	108
8	Solar activity forecast: Spectral analysis and neurofuzzy prediction. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005 , 67, 595-603	2	48
7	APPLICATION OF ACTOR-CRITIC REINFORCEMENT LEARNING METHOD FOR CONTROL OF A SAGITTAL ARM DURING OSCILLATORY MOVEMENT. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2004 , 16, 305-312	0.6	4
6	Axial offset control of PWR nuclear reactor core using intelligent techniques. <i>Nuclear Engineering and Design</i> , 2004 , 227, 285-300	1.8	18
5	Black box modeling of magnetospheric dynamics to forecast geomagnetic activity. <i>Space Weather</i> , 2004 , 2, n/a-n/a	3.7	9
4	Introducing Belbic: Brain Emotional Learning Based Intelligent Controller. <i>Intelligent Automation and Soft Computing</i> , 2004 , 10, 11-21	2.6	193
3	An intelligent nuclear reactor core controller for load following operations, using recurrent neural networks and fuzzy systems. <i>Annals of Nuclear Energy</i> , 2003 , 30, 63-80	1.7	32
2	Implementation of a Genetically Optimized Interpolative Fuzzy Inference Engine in Controlling a Ball-Plate Laboratory Setup 2003 ,		2

- 1 Identification of a nuclear reactor core (VVER) using recurrent neural networks. *Annals of Nuclear Energy*, **2002**, 29, 1225-1240 1.7 20