

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.

283 papers	4,219 citations	31 h-index	54 g-index
339 ext. papers	5,343 ext. citations	3.1 avg, IF	5.82 L-index

#	Paper	IF	Citations
283	Point-kinetics neutron noise modeling and analysis via probabilistic finite state automata. <i>Nuclear Engineering and Design</i> , 2022 , 388, 111628	1.8	
282	Thresholdless Classification of chaotic dynamics and combustion instability via probabilistic finite state automata. <i>Mechanical Systems and Signal Processing</i> , 2022 , 164, 108213	7.8	1
281	Markov Modeling via Spectral Analysis: Application to Detecting Combustion Instabilities 2022 , 129-145		
280	On Compression of Machine-Derived Context Sets for Fusion of Multi-modal Sensor Data 2022 , 585-600		
279	Early Detection of Fatigue Crack Damage in Ductile Materials: A Projection-Based Probabilistic Finite State Automata Approach. <i>ASME Letters in Dynamic Systems and Control</i> , 2021 , 1,		4
278	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 6181-6191	8.9	1
277	A dual-imaging framework for multi-scale measurements of fatigue crack evolution in metallic materials. <i>International Journal of Fatigue</i> , 2021 , 142, 105922	5	3
276	HMM conditional-likelihood based change detection with strict delay tolerance. <i>Mechanical Systems and Signal Processing</i> , 2021 , 147, 107109	7.8	2
275	Classification of fatigue crack damage in polycrystalline alloy structures using convolutional neural networks. <i>Engineering Failure Analysis</i> , 2021 , 119, 104908	3.2	13
274	Optimal Window-Symbolic Time Series Analysis for Pattern Classification and Anomaly Detection. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	2
273	Identification of Long-Term Behavior of Natural Circulation Loops: A Thresholdless Approach from an Initial Response. <i>Sci</i> , 2021 , 3, 14	0.7	
272	Transfer learning of deep neural networks for predicting thermoacoustic instabilities in combustion systems. <i>Energy and AI</i> , 2021 , 5, 100085	12.6	4
271	A Data-Driven Framework for Early-Stage Fatigue Damage Detection in Aluminum Alloys Using Ultrasonic Sensors. <i>Machines</i> , 2021 , 9, 211	2.9	3
270	Measure invariance of ergodic symbolic systems for low-delay detection of anomalous events. <i>Mechanical Systems and Signal Processing</i> , 2021 , 159, 107746	7.8	4
269	Neural Network-Based Automated Assessment of Fatigue Damage in Mechanical Structures. <i>Machines</i> , 2020 , 8, 85	2.9	2
268	On Singular Perturbation of Neutron Point Kinetics in the Dynamic Model of a PWR Nuclear Power Plant. <i>Sci</i> , 2020 , 2, 36	0.7	1
267	Investigation of Melt Pool Geometry Control in Additive Manufacturing Using Hybrid Modeling. <i>Metals</i> , 2020 , 10, 683	2.3	7

266	On Singular Perturbation of Neutron Point Kinetics in the Dynamic Model of a PWR Nuclear Power Plant. <i>Sci</i> , 2020 , 2, 30	0.7	1
265	Reduced-order modelling of thermoacoustic instabilities in a two-heater Rijke tube. <i>Combustion Theory and Modelling</i> , 2020 , 24, 530-548	1.5	3
264	Symbolic Time Series Analysis for Anomaly Detection in Measure-Invariant Ergodic Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	7
263	Online Discovery and Classification of Operational Regimes From an Ensemble of Time Series Data. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2020 , 142,	1.6	4
262	Real-Time Monitoring and Diagnostics of Anomalous Behavior in Dynamical Systems. <i>Energy, Environment, and Sustainability</i> , 2020 , 301-327	0.8	
261	Statistical Analysis of the Capabilities of Various Pattern Recognition Algorithms for Fracture Detection Based on Monitoring Drilling Parameters. <i>Rock Mechanics and Rock Engineering</i> , 2020 , 53, 2265-2278 ³	5.7	3
260	Detection and classification of lean blow-out and thermoacoustic instability in turbulent combustors. <i>Applied Thermal Engineering</i> , 2020 , 180, 115808	5.8	6
259	Early Prediction of Lean Blowout from Chemiluminescence Time Series Data. <i>Combustion Science and Technology</i> , 2020 , 1-28	1.5	3
258	Data-driven Detection and Early Prediction of Thermoacoustic Instability in a Multi-nozzle Combustor. <i>Combustion Science and Technology</i> , 2020 , 1-32	1.5	4
257	Neural Network-Based Learning from Demonstration of an Autonomous Ground Robot. <i>Machines</i> , 2019 , 7, 24	2.9	6
256	Sequential hypothesis tests for streaming data via symbolic time-series analysis. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 81, 234-246	7.2	4
255	Modeling of microscope images for early detection of fatigue cracks in structural materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 3899-3913	3.2	4
254	Hidden Markov Modeling-Based Decision-Making Using Short-Length Sensor Time Series. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	6
253	Improving the capability of detecting joints and fractures in rock mass from roof bolt drilling data by using wavelet analysis. <i>International Journal of Oil, Gas and Coal Technology</i> , 2019 , 20, 97	0.6	2
252	Dynamic Data-Driven Combustor Design for Mitigation of Thermoacoustic Instabilities. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019 , 141,	1.6	2
251	Early Detection of Thermoacoustic Instabilities Using Hidden Markov Models. <i>Combustion Science and Technology</i> , 2019 , 191, 1309-1336	1.5	15
250	State-Space Representations of Deep Neural Networks. <i>Neural Computation</i> , 2019 , 31, 538-554	2.9	6
249	Neural Probabilistic Forecasting of Symbolic Sequences With Long Short-Term Memory. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	4

248	Application of Composite Indices for Improving Joint Detection Capabilities of Instrumented Roof Bolt Drills in Underground Mining and Construction. <i>Rock Mechanics and Rock Engineering</i> , 2018 , 51, 849-860	5.7	5
247	Symbolic analysis-based reduced order Markov modeling of time series data. <i>Signal Processing</i> , 2018 , 149, 68-81	4.4	12
246	Bayesian Nonparametric Regression Modeling of Panel Data for Sequential Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 4128-4139	10.3	2
245	Learning From Multiple Imperfect Instructors in Sensor Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 5166-5172	10.3	
244	Information-Theoretic Performance Analysis of Sensor Networks via Markov Modeling of Time Series Data. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 1898-1909	10.2	11
243	Detection of Thermoacoustic Instabilities Via Nonparametric Bayesian Markov Modeling of Time-Series Data. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	1
242	Study of vapor film dynamics and heat transfer through an image processing technique. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 1310-1320	4.9	4
241	A Locally Optimal Algorithm for Estimating a Generating Partition from an Observed Time Series and Its Application to Anomaly Detection. <i>Neural Computation</i> , 2018 , 30, 2500-2529	2.9	4
240	Bayesian Nonparametric Modeling of Categorical Data for Information Fusion and Causal Inference. <i>Entropy</i> , 2018 , 20,	2.8	2
239	On Compression of Machine-Derived Context Sets for Fusion of Multi-modal Sensor Data 2018 , 571-586		
238	Markov Modeling of Time Series via Spectral Analysis for Detection of Combustion Instabilities 2018 , 123-138		1
237	Imitation of Demonstrations Using Bayesian Filtering With Nonparametric Data-Driven Models. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	1
236	Analysis of Filtered Thermal-Fluid Video Data From Downward Facing Boiling Experiments. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	1
235	Information Fusion of Passive Sensors for Detection of Moving Targets in Dynamic Environments. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 93-104	10.2	34
234	Lean Blowout (LBO) Prediction Through Symbolic Time Series Analysis 2017 , 153-167		2
233	Sparse Representation for Time-Series Classification 2017 , 199-215		1
232	Dynamic Data-Driven Design of Lean Premixed Combustors for Thermoacoustically Stable Operations. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2017 , 139,	3	8
231	Probabilistic forecasting of symbol sequences with deep neural networks 2017 ,		1

230	Prediction of Thermoacoustic Instabilities in a Premixed Combustor based on FFT-based Dynamic Characterization 2017 ,		4
229	Bayesian nonparametric modeling of Markov chains for detection of thermoacoustic instabilities 2017 ,		2
228	Unsupervised Symbolization of Signal Time Series for Extraction of the Embedded Information. <i>Entropy</i> , 2017 , 19, 148	2.8	7
227	Real-time combustion state identification via image processing: A dynamic data-driven approach 2016 ,		8
226	Data-driven anytime algorithms for motion planning with safety guarantees 2016 ,		4
225	Dynamic data-driven and model-based recursive analysis for estimation of battery state-of-charge. <i>Applied Energy</i> , 2016 , 184, 266-275	10.7	18
224	Symbolization of dynamic data-driven systems for signal representation. <i>Signal, Image and Video Processing</i> , 2016 , 10, 1535-1542	1.6	6
223	Dynamic data-driven prediction of instability in a swirl-stabilized combustor. <i>International Journal of Spray and Combustion Dynamics</i> , 2016 , 8, 235-253	1.3	37
222	Path planning in GPS-denied environments via collective intelligence of distributed sensor networks. <i>International Journal of Control</i> , 2016 , 89, 984-999	1.5	8
221	Algorithms for Context Learning and Information Representation for Multi-Sensor Teams. <i>Advances in Computer Vision and Pattern Recognition</i> , 2016 , 403-427	1.1	1
220	2016 ,		2
219	Sensor selection for passive sensor networks in dynamic environment: A dynamic data-driven approach 2016 ,		1
218	Data-driven robot gait modeling via symbolic time series analysis 2016 ,		5
217	Information-space partitioning and symbolization of multi-dimensional time-series data using density estimation 2016 ,		4
216	Topology optimisation for energy management in underwater sensor networks. <i>International Journal of Control</i> , 2015 , 88, 1775-1788	1.5	10
215	Identification of the battery state-of-health parameter from input/output pairs of time series data. <i>Journal of Power Sources</i> , 2015 , 285, 235-246	8.9	15
214	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2424-2434	6.1	9
213	Real-time activity recognition from seismic signature via multi-scale symbolic time series analysis (MSTSA) 2015 ,		8

212	Alphabet size selection for symbolization of dynamic data-driven systems: An information-theoretic approach 2015 ,		5
211	2015 ,		7
210	Dynamic data-driven identification of battery state-of-charge via symbolic analysis of input/output pairs. <i>Applied Energy</i> , 2015 , 155, 778-790	10.7	10
209	Game Theoretic Controller Synthesis for Multi-Robot Motion Planning-Part II: Policy-based Algorithms. <i>IFAC-PapersOnLine</i> , 2015 , 48, 168-173	0.7	1
208	Learning context-aware measurement models 2015 ,		5
207	Dynamic Data-Driven Prediction of Lean Blowout in a Swirl-Stabilized Combustor. <i>International Journal of Spray and Combustion Dynamics</i> , 2015 , 7, 209-241	1.3	16
206	Path planning in GPS-denied environments: A collective intelligence approach 2015 ,		3
205	Ground characterization and roof mapping: Online sensor signal-based change detection. <i>International Journal of Mining Science and Technology</i> , 2015 , 25, 905-913	7.1	6
204	Feature level sensor fusion for target detection in dynamic environments 2015 ,		2
203	Robot Path Planning in Uncertain Environments: A Language-Measure-Theoretic Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	3
202	State splitting and merging in probabilistic finite state automata for signal representation and analysis. <i>Signal Processing</i> , 2014 , 104, 105-119	4.4	67
201	Performance robustness of feature extraction for target detection & classification 2014 ,		3
200	Target detection and target type & motion classification: Comparison of feature extraction algorithms 2014 ,		1
199	Real-time estimation of lead-acid battery parameters: A dynamic data-driven approach. <i>Journal of Power Sources</i> , 2014 , 268, 758-764	8.9	15
198	Context-aware Dynamic Data-driven Pattern Classification. <i>Procedia Computer Science</i> , 2014 , 29, 1324-1333	13.3	9
197	Sensor Fusion for Fault Detection and Classification in Distributed Physical Processes. <i>Frontiers in Robotics and AI</i> , 2014 , 1,	2.8	15
196	Early detection of lean blow out (LBO) via generalized D-Markov machine construction 2014 ,		5
195	Dynamic context-aware sensor selection for sequential hypothesis testing 2014 ,		4

194	Stability Monitoring of Rotorcraft Systems: A Dynamic Data-Driven Approach. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136,	1.6	2
193	Navigation of autonomous vehicles for oil spill cleaning in dynamic and uncertain environments[A preliminary version of this paper was presented by X. Jin and A. Ray as "Coverage Control of Autonomous Vehicles for Oil Spill Cleaning in Dynamic and Uncertain Environments"Proceedings of the American Control Conference, Washington, DC, June 2013, pp. 2600-2605.View all notes.	1.5	19
192	Performance comparison of feature extraction algorithms for target detection and classification. <i>Pattern Recognition Letters</i> , 2013 , 34, 2126-2134	4.7	40
191	Symbolic Dynamic Analysis of Transient Time Series for Fault Detection in Gas Turbine Engines. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	11
190	Hilbert space formulation of symbolic systems for signal representation and analysis. <i>Signal Processing</i> , 2013 , 93, 2594-2611	4.4	4
189	Dynamic Data Driven Sensor Array Fusion for Target Detection and Classification. <i>Procedia Computer Science</i> , 2013 , 18, 2046-2055	1.6	16
188	A variance-estimation-based stopping rule for symbolic dynamic filtering. <i>Signal, Image and Video Processing</i> , 2013 , 7, 189-195	1.6	
187	Lean Blow-Out Prediction in Gas Turbine Combustors Using Symbolic Time Series Analysis. <i>Journal of Propulsion and Power</i> , 2013 , 29, 950-960	1.8	32
186	Detection and estimation of demagnetization faults in permanent magnet synchronous motors. <i>Electric Power Systems Research</i> , 2013 , 96, 225-236	3.5	27
185	Adaptive pattern classification for symbolic dynamic systems. <i>Signal Processing</i> , 2013 , 93, 252-260	4.4	16
184	Anomaly detection in flight recorder data: A dynamic data-driven approach 2013 ,		5
183	Classification of Two-Phase Flow Patterns by Ultrasonic Sensing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	5
182	Multi-sensor information fusion for fault detection in aircraft gas turbine engines. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2013 , 227, 1988-2001	0.9	18
181	BEHAVIOR PREDICTION FOR DECISION AND CONTROL IN COGNITIVE AUTONOMOUS SYSTEMS. <i>New Mathematics and Natural Computation</i> , 2013 , 09, 263-271	0.6	1
180	Distributed decision propagation in mobile-agent proximity networksView all notes. <i>International Journal of Control</i> , 2013 , 86, 1118-1130	1.5	9
179	Language measure-theoretic path planning in the presence of dynamic obstacles 2013 ,		2
178	Spatiotemporal information fusion for fault detection in shipboard auxiliary systems 2013 ,		2
177	Optimization of symbolic feature extraction for pattern classification. <i>Signal Processing</i> , 2012 , 92, 625-634	4.4	18

176	Vector space formulation of probabilistic finite state automata. <i>Journal of Computer and System Sciences</i> , 2012 , 78, 1127-1141	1	5
175	An inner product space on irreducible and synchronizable probabilistic finite state automata. <i>Mathematics of Control, Signals, and Systems</i> , 2012 , 23, 281-310	1.3	12
174	Symbolic dynamic filtering and language measure for behavior identification of mobile robots. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 647-59		17
173	Statistical Mechanics-Inspired Modeling of Heterogeneous Packet Transmission in Communication Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 1083-94		4
172	Target Detection and Classification Using Seismic and PIR Sensors. <i>IEEE Sensors Journal</i> , 2012 , 12, 1709-1718		92
171	Symbolic transient time-series analysis for fault detection in aircraft gas turbine engines 2012 ,		2
170	DESIGNING A FUSION-DRIVEN SENSOR NETWORK TO SELECTIVELY TRACK MOBILE TARGETS. <i>Parallel Processing Letters</i> , 2012 , 22, 1250001	0.3	1
169	Online recursive estimation of remaining life using ultrasonic measurements. <i>Structural Health Monitoring</i> , 2012 , 11, 413-421	4.4	6
168	Multi-resolution navigation of mobile robots with complete coverage of unknown and complex environments 2012 ,		2
167	Statistical-mechanics-inspired optimization of sensor field configuration for detection of mobile targets. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 783-91		20
166	. <i>IEEE Journal of Oceanic Engineering</i> , 2011 , 36, 219-230	3.3	39
165	Distributed network control for mobile multi-modal wireless sensor networks. <i>Journal of Parallel and Distributed Computing</i> , 2011 , 71, 460-470	4.4	4
164	Wavelet-based feature extraction using probabilistic finite state automata for pattern classification. <i>Pattern Recognition</i> , 2011 , 44, 1343-1356	7.7	44
163	Real-time adaptation of decision thresholds in sensor networks for detection of moving targets. <i>Automatica</i> , 2011 , 47, 185-191	5.7	5
162	On the discriminability of keystroke feature vectors used in fixed text keystroke authentication. <i>Pattern Recognition Letters</i> , 2011 , 32, 1070-1080	4.7	39
161	Anomaly Detection in Nuclear Power Plants via Symbolic Dynamic Filtering. <i>IEEE Transactions on Nuclear Science</i> , 2011 , 58, 277-288	1.7	26
160	Information fusion for object & situation assessment in sensor networks 2011 ,		6
159	GODDeS: Globally γ -Optimal Routing Via Distributed Decision-theoretic Self-organization 2011 ,		2

158	Semantic sensor fusion for fault diagnosis in aircraft gas turbine engines 2011 ,		4
157	2011 ,		9
156	Unsupervised inductive learning in symbolic sequences via Recursive Identification of Self-Similar Semantics 2011 ,		3
155	Symbolic dynamic filtering of seismic sensors for target detection and classification 2011 ,		7
154	Data-Driven Fault Detection in Aircraft Engines With Noisy Sensor Measurements. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011 , 133,	1.7	35
153	Symbolic dynamic analysis of surface deformation during fatigue crack initiation. <i>Measurement Science and Technology</i> , 2010 , 21, 043003	2	7
152	Distributed decision propagation in mobile agent networks 2010 ,		1
151	Pattern classification in symbolic streams via semantic annihilation of information 2010 ,		1
150	Symbolic identification for anomaly detection in aircraft gas turbine engines 2010 ,		2
149	Optimal control of infinite horizon partially observable decision processes modelled as generators of probabilistic regular languages. <i>International Journal of Control</i> , 2010 , 83, 457-483	1.5	2
148	Integrated Robust and Resilient Control of Nuclear Power Plants for Operational Safety and High Performance. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 807-817	1.7	17
147	Self-organization of sensor networks for detection of pervasive faults. <i>Signal, Image and Video Processing</i> , 2010 , 4, 99-104	1.6	1
146	Symbolic dynamic filtering for image analysis: theory and experimental validation. <i>Signal, Image and Video Processing</i> , 2010 , 4, 319-329	1.6	5
145	Analytic signal space partitioning and symbolic dynamic filtering for degradation monitoring of electric motors. <i>Signal, Image and Video Processing</i> , 2010 , 4, 399-403	1.6	10
144	A stopping rule for symbolic dynamic filtering. <i>Applied Mathematics Letters</i> , 2010 , 23, 1125-1128	3.5	4
143	Ultrasonic measurement of crack opening load for life-extending control of mechanical structures 2009 ,		2
142	2009 ,		1
141	Understanding phase transition in communication networks to enable robust and resilient control 2009 ,		3

140	Autonomous robot navigation using optimal control of probabilistic regular languages. <i>International Journal of Control</i> , 2009 , 82, 13-26	1.5	4
139	Supervised self-organization of large homogeneous Swarms using Ergodic Projections of Markov Chains 2009 ,		1
138	Suboptimal partitioning of time-series data for anomaly detection 2009 ,		3
137	Optimal path-planning under finite memory obstacle dynamics based on probabilistic finite state automata models 2009 ,		2
136	Data driven anomaly detection via symbolic identification of complex dynamical systems 2009 ,		2
135	Asynchronous data-driven classification of weapon systems. <i>Measurement Science and Technology</i> , 2009 , 20, 123001	2	5
134	Void fraction measurement in two-phase flow processes via symbolic dynamic filtering of ultrasonic signals. <i>Measurement Science and Technology</i> , 2009 , 20, 023001	2	25
133	Adaptive Sensor Activity Scheduling in Distributed Sensor Networks: A Statistical Mechanics Approach. <i>International Journal of Distributed Sensor Networks</i> , 2009 , 5, 242-261	1.7	7
132	Early detection of stator voltage imbalance in three-phase induction motors. <i>Electric Power Systems Research</i> , 2009 , 79, 239-245	3.5	14
131	Statistical Mechanics of Complex Systems for Pattern Identification. <i>Journal of Statistical Physics</i> , 2009 , 134, 337-364	1.5	19
130	Review and comparative evaluation of symbolic dynamic filtering for detection of anomaly patterns. <i>Signal, Image and Video Processing</i> , 2009 , 3, 101-114	1.6	73
129	An information-theoretic measure for anomaly detection in complex dynamical systems. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 358-371	7.8	6
128	Statistical estimation of multiple parameters via symbolic dynamic filtering. <i>Signal Processing</i> , 2009 , 89, 981-988	4.4	4
127	Generalization of Hilbert transform for symbolic analysis of noisy signals. <i>Signal Processing</i> , 2009 , 89, 1245-1251	4.4	15
126	Underwater mine detection using symbolic pattern analysis of sidescan sonar images 2009 ,		10
125	A robot path planning algorithm based on renormalised measure of probabilistic regular languages. <i>International Journal of Control</i> , 2009 , 82, 849-867	1.5	7
124	Structural transformations of probabilistic finite state machines. <i>International Journal of Control</i> , 2008 , 81, 820-835	1.5	19
123	Generalised projections in finite state automata and decidability of state determinacy. <i>International Journal of Control</i> , 2008 , 81, 1626-1644	1.5	1

122	. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 862-864	5.9	
121	Estimation of multiple parameters in dynamical systems 2008 ,		2
120	Space partitioning via Hilbert transform for symbolic time series analysis. <i>Applied Physics Letters</i> , 2008 , 92, 084107	3.4	55
119	Symbolic identification and anomaly detection in complex dynamical systems 2008 ,		2
118	Statistical pattern analysis of ultrasonic signals for fatigue damage detection in mechanical structures. <i>NDT and E International</i> , 2008 , 41, 491-500	4.1	13
117	Anomaly detection in flexible mechanical couplings via symbolic time series analysis. <i>Journal of Sound and Vibration</i> , 2008 , 311, 608-622	3.9	7
116	Estimation of slowly varying parameters in nonlinear systems via symbolic dynamic filtering. <i>Signal Processing</i> , 2008 , 88, 339-348	4.4	18
115	Prognosis of Failure Precursor in Complex Electrical Systems Using Symbolic Dynamics. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	2
114	Dynamic Information Fusion Driven Design of Urban Sensor Networks 2007 ,		3
113	Generalized language measure families of probabilistic finite state systems. <i>International Journal of Control</i> , 2007 , 80, 789-799	1.5	
112	Real-time fatigue life estimation in mechanical structures. <i>Measurement Science and Technology</i> , 2007 , 18, 1947-1957	2	42
111	Modelling and system identification of an experimental apparatus for anomaly detection in mechanical systems. <i>Applied Mathematical Modelling</i> , 2007 , 31, 734-748	4.5	5
110	Hierarchical control of aircraft propulsion systems: Discrete event supervisor approach. <i>Control Engineering Practice</i> , 2007 , 15, 149-162	3.9	6
109	Symbolic time series analysis of ultrasonic data for early detection of fatigue damage. <i>Mechanical Systems and Signal Processing</i> , 2007 , 21, 866-884	7.8	91
108	Pattern identification in dynamical systems via symbolic time series analysis. <i>Pattern Recognition</i> , 2007 , 40, 2897-2907	7.7	25
107	Pattern identification using lattice spin systems: A thermodynamic formalism. <i>Applied Physics Letters</i> , 2007 , 91, 194105	3.4	10
106	Language-measure-theoretic optimal control of probabilistic finite-state systems. <i>International Journal of Control</i> , 2007 , 80, 1271-1290	1.5	24
105	Generalized Projections in Finite State Automata & Decidability of State Determinacy. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	1

104	Wavelet Space Partitioning for Symbolic Time Series Analysis. <i>Chinese Physics Letters</i> , 2006 , 23, 1951-1954	1	48
103	Symbolic time series analysis of ultrasonic signals for fatigue damage monitoring in polycrystalline alloys. <i>Measurement Science and Technology</i> , 2006 , 17, 1963-1973	2	9
102	Autonomous Navigation of Mobile Robots Using Optimal Control of Finite State Automata 2006 ,		3
101	Anomaly Detection in Aircraft Gas Turbine Engines. <i>Journal of Aerospace Computing, Information, and Communication</i> , 2006 , 3, 44-51		21
100	Integrated decision and control of human-engineered complex systems. <i>International Journal of General Systems</i> , 2006 , 35, 275-294	2.1	4
99	A language measure for partially observed discrete event systems. <i>International Journal of Control</i> , 2006 , 79, 1074-1086	1.5	3
98	Pattern Identification in Complex Systems: A Statistical Thermodynamic Approach 2006 , 771		0
97	Correlation regimes in fluctuations of fatigue crack growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 359, 1-23	3.3	5
96	Symbolic time series analysis via wavelet-based partitioning. <i>Signal Processing</i> , 2006 , 86, 3309-3320	4.4	176
95	Identification of statistical patterns in complex systems via symbolic time series analysis. <i>ISA Transactions</i> , 2006 , 45, 477-90	5.5	4
94	Supervisory Control of Software Systems 2005 , 207-238		
93	On-line identification of language measure parameters for discrete-event supervisory control. <i>Applied Mathematical Modelling</i> , 2005 , 29, 597-613	4.5	7
92	Symbolic time series analysis for anomaly detection: A comparative evaluation. <i>Signal Processing</i> , 2005 , 85, 1859-1868	4.4	52
91	Robust optimal control of regular languages. <i>Automatica</i> , 2005 , 41, 1439-1445	5.7	1
90	Robust Optimal Control of Regular Languages 2005 , 71-93		
89	Supervisory Control of Malicious Executables in Software Processes 2005 , 239-259		
88	A COMPLEX MEASURE FOR LINEAR GRAMMARS. <i>Demonstratio Mathematica</i> , 2005 , 38,	1.6	2
87	Optimal Discrete Event Control of Gas Turbine Engines 2005 , 183-205		

86 Optimal Supervisory Control of Regular Languages **2005**, 39-69

85 Signed Real Measure of Regular Languages **2005**, 3-37

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84 Advanced Topics in Supervisory Control **2005**, 95-130

83 Optimal Control of Robot Behavior Using Language Measure **2005**, 157-181

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82 Stochastic Measure of Fatigue Crack Damage for Health Monitoring of Ductile Alloy Structures. *Structural Health Monitoring*, **2004**, 3, 245-263

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81 Symbolic dynamic analysis of complex systems for anomaly detection. *Signal Processing*, **2004**, 84, 1115-1130

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80 A language measure for performance evaluation of discrete-event supervisory control systems. *Applied Mathematical Modelling*, **2004**, 28, 817-833

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79 Unconstrained optimal control of regular languages. *Automatica*, **2004**, 40, 639-646

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