

Asok Ray

List of Publications by Year in descending order

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335
papers

6,025
citations

134610

34
h-index

124990

64
g-index

339
all docs

339
docs citations

339
times ranked

2964
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Early Prediction of Lean Blowout from Chemiluminescence Time Series Data. Combustion Science and Technology, 2022, 194, 1108-1135. | 1.2 | 10 |
| 2 | Data-driven Detection and Early Prediction of Thermoacoustic Instability in a Multi-nozzle Combustor. Combustion Science and Technology, 2022, 194, 1481-1512. | 1.2 | 10 |
| 3 | Optimal Window-Symbolic Time Series Analysis for Pattern Classification and Anomaly Detection. IEEE Transactions on Industrial Informatics, 2022, 18, 2614-2621. | 7.2 | 5 |
| 4 | On State-Space Modeling and Signal Localization in Dynamical Systems. ASME Letters in Dynamic Systems and Control, 2022, 2, . | 0.4 | 1 |
| 5 | Thresholdless Classification of chaotic dynamics and combustion instability via probabilistic finite state automata. Mechanical Systems and Signal Processing, 2022, 164, 108213. | 4.4 | 6 |
| 6 | A Dynamically Stabilized Recurrent Neural Network. Neural Processing Letters, 2022, 54, 1195-1209. | 2.0 | 26 |
| 7 | Point-kinetics neutron noise modeling and analysis via probabilistic finite state automata. Nuclear Engineering and Design, 2022, 388, 111628. | 0.8 | 0 |
| 8 | Spectral invariants of ergodic symbolic systems for pattern recognition and anomaly detection. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, . | 1.6 | 1 |
| 9 | Deep Reinforcement Learning Control of a Boiling Water Reactor. IEEE Transactions on Nuclear Science, 2022, 69, 1820-1832. | 1.2 | 7 |
| 10 | Multivariable Nonadaptive Controller Design. IEEE Transactions on Industrial Electronics, 2021, 68, 6181-6191. | 5.2 | 5 |
| 11 | A dual-imaging framework for multi-scale measurements of fatigue crack evolution in metallic materials. International Journal of Fatigue, 2021, 142, 105922. | 2.8 | 6 |
| 12 | HMM conditional-likelihood based change detection with strict delay tolerance. Mechanical Systems and Signal Processing, 2021, 147, 107109. | 4.4 | 5 |
| 13 | Classification of fatigue crack damage in polycrystalline alloy structures using convolutional neural networks. Engineering Failure Analysis, 2021, 119, 104908. | 1.8 | 27 |
| 14 | Forecasting and Detection of Fatigue Cracks in Polycrystalline Alloys With Ultrasonic Testing Via Discrete Wavelet Transform. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2021, 4, . | 0.7 | 2 |
| 15 | Identification of Long-Term Behavior of Natural Circulation Loops: A Thresholdless Approach from an Initial Response. Sci, 2021, 3, 14. | 1.8 | 0 |
| 16 | Early Detection of Fatigue Crack Damage in Ductile Materials: A Projection-Based Probabilistic Finite State Automata Approach. ASME Letters in Dynamic Systems and Control, 2021, 1, . | 0.4 | 6 |
| 17 | Transfer Learning for Detection of Combustion Instability Via Symbolic Time-Series Analysis. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, . | 0.9 | 3 |
| 18 | Transfer learning of deep neural networks for predicting thermoacoustic instabilities in combustion systems. Energy and AI, 2021, 5, 100085. | 5.8 | 12 |

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| 19 | A Data-Driven Framework for Early-Stage Fatigue Damage Detection in Aluminum Alloys Using Ultrasonic Sensors. <i>Machines</i> , 2021, 9, 211. | 1.2 | 7 |
| 20 | Measure invariance of ergodic symbolic systems for low-delay detection of anomalous events. <i>Mechanical Systems and Signal Processing</i> , 2021, 159, 107746. | 4.4 | 8 |
| 21 | Data-Driven Detection and Classification of Regimes in Chaotic Systems Via Hidden Markov Modeling. <i>ASME Letters in Dynamic Systems and Control</i> , 2021, 1, . | 0.4 | 2 |
| 22 | 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. | 2.6 | 8 |
| 23 | Detection and classification of lean blow-out and thermoacoustic instability in turbulent combustors. <i>Applied Thermal Engineering</i> , 2020, 180, 115808. | 3.0 | 14 |
| 24 | Neural Network-Based Automated Assessment of Fatigue Damage in Mechanical Structures. <i>Machines</i> , 2020, 8, 85. | 1.2 | 6 |
| 25 | On Singular Perturbation of Neutron Point Kinetics in the Dynamic Model of a PWR Nuclear Power Plant. <i>Sci</i> , 2020, 2, 36. | 1.8 | 1 |
| 26 | Investigation of Melt Pool Geometry Control in Additive Manufacturing Using Hybrid Modeling. <i>Metals</i> , 2020, 10, 683. | 1.0 | 39 |
| 27 | On Singular Perturbation of Neutron Point Kinetics in the Dynamic Model of a PWR Nuclear Power Plant. <i>Sci</i> , 2020, 2, 30. | 1.8 | 3 |
| 28 | Reduced-order modelling of thermoacoustic instabilities in a two-heater Rijke tube. <i>Combustion Theory and Modelling</i> , 2020, 24, 530-548. | 1.0 | 6 |
| 29 | 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, . | 0.9 | 14 |
| 30 | 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, . | 0.9 | 5 |
| 31 | Real-Time Monitoring and Diagnostics of Anomalous Behavior in Dynamical Systems. <i>Energy, Environment, and Sustainability</i> , 2020, , 301-327. | 0.6 | 1 |
| 32 | 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. | 1.5 | 5 |
| 33 | Neural Network-Based Learning from Demonstration of an Autonomous Ground Robot. <i>Machines</i> , 2019, 7, 24. | 1.2 | 15 |
| 34 | Sequential hypothesis tests for streaming data via symbolic time-series analysis. <i>Engineering Applications of Artificial Intelligence</i> , 2019, 81, 234-246. | 4.3 | 6 |
| 35 | 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. | 0.1 | 5 |
| 36 | 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, . | 0.9 | 4 |

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| 37 | Early Detection of Thermoacoustic Instabilities Using Hidden Markov Models. Combustion Science and Technology, 2019, 191, 1309-1336. | 1.2 | 22 |
| 38 | State-Space Representations of Deep Neural Networks. Neural Computation, 2019, 31, 538-554. | 1.3 | 8 |
| 39 | Hidden Markov Modeling-Based Decision-Making Using Short-Length Sensor Time Series. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, . | 0.9 | 7 |
| 40 | Neural Probabilistic Forecasting of Symbolic Sequences With Long Short-Term Memory. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, . | 0.9 | 7 |
| 41 | Application of Composite Indices for Improving Joint Detection Capabilities of Instrumented Roof Bolt Drills in Underground Mining and Construction. Rock Mechanics and Rock Engineering, 2018, 51, 849-860. | 2.6 | 8 |
| 42 | Symbolic analysis-based reduced order Markov modeling of time series data. Signal Processing, 2018, 149, 68-81. | 2.1 | 15 |
| 43 | Bayesian Nonparametric Regression Modeling of Panel Data for Sequential Classification. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4128-4139. | 7.2 | 2 |
| 44 | Learning From Multiple Imperfect Instructors in Sensor Networks. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5166-5172. | 7.2 | 0 |
| 45 | Information-Theoretic Performance Analysis of Sensor Networks via Markov Modeling of Time Series Data. IEEE Transactions on Cybernetics, 2018, 48, 1898-1909. | 6.2 | 13 |
| 46 | Detection of Thermoacoustic Instabilities Via Nonparametric Bayesian Markov Modeling of Time-Series Data. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, . | 0.9 | 1 |
| 47 | Markov Modeling of Time Series via Spectral Analysis for Detection of Combustion Instabilities. , 2018, , 123-138. | | 2 |
| 48 | Imitation of Demonstrations Using Bayesian Filtering With Nonparametric Data-Driven Models. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, . | 0.9 | 2 |
| 49 | Analysis of Filtered Thermal-Fluid Video Data From Downward Facing Boiling Experiments. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, . | 0.9 | 2 |
| 50 | Study of vapor film dynamics and heat transfer through an image processing technique. International Journal of Heat and Mass Transfer, 2018, 125, 1310-1320. | 2.5 | 9 |
| 51 | A Locally Optimal Algorithm for Estimating a Generating Partition from an Observed Time Series and Its Application to Anomaly Detection. Neural Computation, 2018, 30, 2500-2529. | 1.3 | 8 |
| 52 | Bayesian Nonparametric Modeling of Categorical Data for Information Fusion and Causal Inference. Entropy, 2018, 20, 396. | 1.1 | 2 |
| 53 | On Compression of Machine-Derived Context Sets for Fusion of Multi-modal Sensor Data. , 2018, , 571-586. | | 0 |
| 54 | Information Fusion of Passive Sensors for Detection of Moving Targets in Dynamic Environments. IEEE Transactions on Cybernetics, 2017, 47, 93-104. | 6.2 | 42 |

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| 55 | Lean Blowout (LBO) Prediction Through Symbolic Time Series Analysis. , 2017, , 153-167. | | 2 |
| 56 | Sparse Representation for Time-Series Classification. , 2017, , 199-215. | | 1 |
| 57 | Dynamic Data-Driven Design of Lean Premixed Combustors for Thermoacoustically Stable Operations. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, . | 1.7 | 11 |
| 58 | Probabilistic forecasting of symbol sequences with deep neural networks. , 2017, , . | | 2 |
| 59 | Distributed Modular Supervisory Control of Integrated Aircraft Propulsion, Power, and Thermal Systems: An Overview. , 2017, , . | | 2 |
| 60 | Prediction of Thermoacoustic Instabilities in a Premixed Combustor based on FFT-based Dynamic Characterization. , 2017, , . | | 5 |
| 61 | Bayesian nonparametric modeling of Markov chains for detection of thermoacoustic instabilities. , 2017, , . | | 2 |
| 62 | Unsupervised Symbolization of Signal Time Series for Extraction of the Embedded Information. Entropy, 2017, 19, 148. | 1.1 | 13 |
| 63 | Multimodal spatiotemporal information fusion using neural-symbolic modeling for early detection of combustion instabilities. , 2016, , . | | 2 |
| 64 | Sensor selection for passive sensor networks in dynamic environment: A dynamic data-driven approach. , 2016, , . | | 1 |
| 65 | Data-driven robot gait modeling via symbolic time series analysis. , 2016, , . | | 5 |
| 66 | Information-space partitioning and symbolization of multi-dimensional time-series data using density estimation. , 2016, , . | | 4 |
| 67 | Real-time identification of state-of-charge in battery systems: Dynamic data-driven estimation with limited window length. , 2016, , . | | 0 |
| 68 | Real-time combustion state identification via image processing: A dynamic data-driven approach. , 2016, , . | | 9 |
| 69 | Data-driven anytime algorithms for motion planning with safety guarantees. , 2016, , . | | 4 |
| 70 | Dynamic data-driven and model-based recursive analysis for estimation of battery state-of-charge. Applied Energy, 2016, 184, 266-275. | 5.1 | 29 |
| 71 | Symbolization of dynamic data-driven systems for signal representation. Signal, Image and Video Processing, 2016, 10, 1535-1542. | 1.7 | 9 |
| 72 | Dynamic data-driven prediction of instability in a swirl-stabilized combustor. International Journal of Spray and Combustion Dynamics, 2016, 8, 235-253. | 0.4 | 47 |

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| 73 | Path planning in GPS-denied environments via collective intelligence of distributed sensor networks. International Journal of Control, 2016, 89, 984-999. | 1.2 | 9 |
| 74 | Algorithms for Context Learning and Information Representation for Multi-Sensor Teams. Advances in Computer Vision and Pattern Recognition, 2016, , 403-427. | 0.9 | 3 |
| 75 | Game Theoretic Controller Synthesis for Multi-Robot Motion Planning-Part II: Policy-based Algorithms—M. Zhu was partially supported by NSF grant CNS-1505664.. IFAC-PapersOnLine, 2015, 48, 168-173. | 0.5 | 4 |
| 76 | Learning context-aware measurement models. , 2015, , . | | 7 |
| 77 | Dynamic Data-Driven Prediction of Lean Blowout in a Swirl-Stabilized Combustor. International Journal of Spray and Combustion Dynamics, 2015, 7, 209-241. | 0.4 | 20 |
| 78 | Path planning in GPS-denied environments: A collective intelligence approach. , 2015, , . | | 6 |
| 79 | Ground characterization and roof mapping: Online sensor signal-based change detection. International Journal of Mining Science and Technology, 2015, 25, 905-913. | 4.6 | 8 |
| 80 | Feature level sensor fusion for target detection in dynamic environments. , 2015, , . | | 5 |
| 81 | Robot Path Planning in Uncertain Environments: A Language-Measure-Theoretic Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, . | 0.9 | 5 |
| 82 | Topology optimisation for energy management in underwater sensor networks. International Journal of Control, 2015, 88, 1775-1788. | 1.2 | 11 |
| 83 | Identification of the battery state-of-health parameter from input-output pairs of time series data. Journal of Power Sources, 2015, 285, 235-246. | 4.0 | 22 |
| 84 | Dynamic Prediction of Vehicle Cluster Distribution in Mixed Traffic: A Statistical Mechanics-Inspired Method. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2424-2434. | 4.7 | 11 |
| 85 | Real-time activity recognition from seismic signature via multi-scale symbolic time series analysis (MSTSA). , 2015, , . | | 9 |
| 86 | Identification of battery parameters via symbolic input-output analysis: A dynamic data-driven approach. , 2015, , . | | 0 |
| 87 | Alphabet size selection for symbolization of dynamic data-driven systems: An information-theoretic approach. , 2015, , . | | 6 |
| 88 | Depth estimation in Markov models of time-series data via spectral analysis. , 2015, , . | | 7 |
| 89 | Dynamic data-driven identification of battery state-of-charge via symbolic analysis of input-output pairs. Applied Energy, 2015, 155, 778-790. | 5.1 | 16 |
| 90 | Sensor Fusion for Fault Detection and Classification in Distributed Physical Processes. Frontiers in Robotics and AI, 2014, 1, . | 2.0 | 24 |

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| 91 | Early detection of lean blow out (LBO) via generalized D-Markov machine construction. , 2014, , . | | 6 |
| 92 | Dynamic context-aware sensor selection for sequential hypothesis testing. , 2014, , . | | 5 |
| 93 | Stability Monitoring of Rotorcraft Systems: A Dynamic Data-Driven Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, . | 0.9 | 2 |
| 94 | Navigation of autonomous vehicles for oil spill cleaning in dynamic and uncertain environments. International Journal of Control, 2014, 87, 787-801. | 1.2 | 22 |
| 95 | State splitting and merging in probabilistic finite state automata for signal representation and analysis. Signal Processing, 2014, 104, 105-119. | 2.1 | 83 |
| 96 | Implementation of fault detection and prediction capabilities in a multilevel current source inverter. , 2014, , . | | 0 |
| 97 | Performance robustness of feature extraction for target detection & classification. , 2014, , . | | 5 |
| 98 | Target detection and target type & motion classification: Comparison of feature extraction algorithms. , 2014, , . | | 1 |
| 99 | Real-time estimation of lead-acid battery parameters: A dynamic data-driven approach. Journal of Power Sources, 2014, 268, 758-764. | 4.0 | 22 |
| 100 | Context-aware Dynamic Data-driven Pattern Classification. Procedia Computer Science, 2014, 29, 1324-1333. | 1.2 | 12 |
| 101 | Performance comparison of feature extraction algorithms for target detection and classification. Pattern Recognition Letters, 2013, 34, 2126-2134. | 2.6 | 46 |
| 102 | Symbolic Dynamic Analysis of Transient Time Series for Fault Detection in Gas Turbine Engines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, . | 0.9 | 18 |
| 103 | Hilbert space formulation of symbolic systems for signal representation and analysis. Signal Processing, 2013, 93, 2594-2611. | 2.1 | 4 |
| 104 | An artificial language for data-driven self-adaptation of networked robots in dynamic environments. , 2013, , . | | 0 |
| 105 | Dynamic Data Driven Sensor Array Fusion for Target Detection and Classification. Procedia Computer Science, 2013, 18, 2046-2055. | 1.2 | 19 |
| 106 | A variance-estimation-based stopping rule for symbolic dynamic filtering. Signal, Image and Video Processing, 2013, 7, 189-195. | 1.7 | 0 |
| 107 | Lean Blow-Out Prediction in Gas Turbine Combustors Using Symbolic Time Series Analysis. Journal of Propulsion and Power, 2013, 29, 950-960. | 1.3 | 41 |
| 108 | Detection and estimation of demagnetization faults in permanent magnet synchronous motors. Electric Power Systems Research, 2013, 96, 225-236. | 2.1 | 33 |

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| 109 | Adaptive pattern classification for symbolic dynamic systems. Signal Processing, 2013, 93, 252-260. | 2.1 | 18 |
| 110 | Anomaly detection in flight recorder data: A dynamic data-driven approach. , 2013, , . | | 16 |
| 111 | Classification of Two-Phase Flow Patterns by Ultrasonic Sensing. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, . | 0.9 | 6 |
| 112 | Multi-sensor information fusion for fault detection in aircraft gas turbine engines. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2013, 227, 1988-2001. | 0.7 | 21 |
| 113 | BEHAVIOR PREDICTION FOR DECISION AND CONTROL IN COGNITIVE AUTONOMOUS SYSTEMS. New Mathematics and Natural Computation, 2013, 09, 263-271. | 0.4 | 2 |
| 114 | Distributed decision propagation in mobile-agent proximity networks. International Journal of Control, 2013, 86, 1118-1130. | 1.2 | 11 |
| 115 | Language measure-theoretic path planning in the presence of dynamic obstacles. , 2013, , . | | 4 |
| 116 | Spatiotemporal information fusion for fault detection in shipboard auxiliary systems. , 2013, , . | | 2 |
| 117 | Identification of Instabilities in Rotorcraft Systems. , 2013, , . | | 0 |
| 118 | Symbolic transient time-series analysis for fault detection in aircraft gas turbine engines. , 2012, , . | | 4 |
| 119 | DESIGNING A FUSION-DRIVEN SENSOR NETWORK TO SELECTIVELY TRACK MOBILE TARGETS. Parallel Processing Letters, 2012, 22, 1250001. | 0.4 | 1 |
| 120 | Online recursive estimation of remaining life using ultrasonic measurements. Structural Health Monitoring, 2012, 11, 413-421. | 4.3 | 7 |
| 121 | Multi-resolution navigation of mobile robots with complete coverage of unknown and complex environments. , 2012, , . | | 6 |
| 122 | Distributed decision propagation in mobile agent networks. , 2012, , . | | 0 |
| 123 | Symbolic Dynamic Filtering and Language Measure for Behavior Identification of Mobile Robots. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 647-659. | 5.5 | 18 |
| 124 | Statistical Mechanics-Inspired Modeling of Heterogeneous Packet Transmission in Communication Networks. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1083-1094. | 5.5 | 7 |
| 125 | A unified framework for supervised learning of semantic models. , 2012, , . | | 0 |
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| 127 | Target Detection and Classification Using Seismic and PIR Sensors. IEEE Sensors Journal, 2012, 12, 1709-1718. | 2.4 | 127 |
| 128 | Optimization of symbolic feature extraction for pattern classification. Signal Processing, 2012, 92, 625-635. | 2.1 | 18 |
| 129 | Vector space formulation of probabilistic finite state automata. Journal of Computer and System Sciences, 2012, 78, 1127-1141. | 0.9 | 5 |
| 130 | An inner product space on irreducible and synchronizable probabilistic finite state automata. Mathematics of Control, Signals, and Systems, 2012, 23, 281-310. | 1.4 | 14 |
| 131 | Symbolic encoding of analytic signals for structural monitoring of power systems. , 2011, , . | | 0 |
| 132 | Modeling of symbolic systems: Part I - Vector space representation of probabilistic finite state automata. , 2011, , . | | 1 |
| 133 | Modeling of symbolic systems: Part II - Hilbert space construction for model identification and order reduction. , 2011, , . | | 2 |
| 134 | Statistical-Mechanics-Inspired Optimization of Sensor Field Configuration for Detection of Mobile Targets. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 783-791. | 5.5 | 24 |
| 135 | Symbolic Analysis of Sonar Data for Underwater Target Detection. IEEE Journal of Oceanic Engineering, 2011, 36, 219-230. | 2.1 | 56 |
| 136 | Distributed network control for mobile multi-modal wireless sensor networks. Journal of Parallel and Distributed Computing, 2011, 71, 460-470. | 2.7 | 5 |
| 137 | Wavelet-based feature extraction using probabilistic finite state automata for pattern classification. Pattern Recognition, 2011, 44, 1343-1356. | 5.1 | 51 |
| 138 | Real-time adaptation of decision thresholds in sensor networks for detection of moving targets. Automatica, 2011, 47, 185-191. | 3.0 | 6 |
| 139 | On the discriminability of keystroke feature vectors used in fixed text keystroke authentication. Pattern Recognition Letters, 2011, 32, 1070-1080. | 2.6 | 59 |
| 140 | Anomaly Detection in Nuclear Power Plants via Symbolic Dynamic Filtering. IEEE Transactions on Nuclear Science, 2011, 58, 277-288. | 1.2 | 34 |
| 141 | Information fusion for object & situation assessment in sensor networks. , 2011, , . | | 10 |
| 142 | GODDeS: Globally ∈-Optimal Routing Via Distributed Decision-theoretic Self-organization. , 2011, , . | | 3 |
| 143 | Semantic sensor fusion for fault diagnosis in aircraft gas turbine engines. , 2011, , . | | 4 |
| 144 | State splitting and state merging in probabilistic finite state automata. , 2011, , . | | 11 |

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| 145 | Optimal partitioning of ultrasonic data for fatigue damage detection?. , 2011, , . | | 0 |
| 146 | Unsupervised inductive learning in symbolic sequences via Recursive Identification of Self-Similar Semantics. , 2011, , . | | 6 |
| 147 | Symbolic dynamic filtering of seismic sensors for target detection and classification. , 2011, , . | | 12 |
| 148 | Data-Driven Fault Detection in Aircraft Engines With Noisy Sensor Measurements. Journal of Engineering for Gas Turbines and Power, 2011, 133, . | 0.5 | 47 |
| 149 | Self-organization of sensor networks for detection of pervasive faults. Signal, Image and Video Processing, 2010, 4, 99-104. | 1.7 | 1 |
| 150 | Symbolic dynamic filtering for image analysis: theory and experimental validation. Signal, Image and Video Processing, 2010, 4, 319-329. | 1.7 | 6 |
| 151 | Analytic signal space partitioning and symbolic dynamic filtering for degradation monitoring of electric motors. Signal, Image and Video Processing, 2010, 4, 399-403. | 1.7 | 10 |
| 152 | A stopping rule for symbolic dynamic filtering. Applied Mathematics Letters, 2010, 23, 1125-1128. | 1.5 | 4 |
| 153 | Symbolic dynamic analysis of surface deformation during fatigue crack initiation. Measurement Science and Technology, 2010, 21, 043003. | 1.4 | 8 |
| 154 | Minimum rotation partitioning for data analysis and its application to fault detection. , 2010, , . | | 0 |
| 155 | Symbolic dynamics of wavelet images for pattern identification. , 2010, , . | | 1 |
| 156 | Distributed decision propagation in mobile agent networks. , 2010, , . | | 2 |
| 157 | Symbolic identification of dynamical systems: Theory and experimental validation. , 2010, , . | | 0 |
| 158 | Mathematical Foundations of Sensor Network Design Based On Linguistic Informatics. , 2010, , . | | 1 |
| 159 | Pattern classification in symbolic streams via semantic annihilation of information. , 2010, , . | | 1 |
| 160 | Symbolic identification for anomaly detection in aircraft gas turbine engines. , 2010, , . | | 2 |
| 161 | Tracking Mobile Targets Using Wireless Sensor Networks. , 2010, , . | | 0 |
| 162 | Statistical mechanics-inspired optimization for sensor field reconfiguration. , 2010, , . | | 0 |

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| 163 | A decision-theoretic model of selection modulated intra-host antigenic variation for multi-strain pathogens. , 2010, , . | | 0 |
| 164 | Optimal control of infinite horizon partially observable decision processes modelled as generators of probabilistic regular languages. International Journal of Control, 2010, 83, 457-483. | 1.2 | 2 |
| 165 | Integrated Robust and Resilient Control of Nuclear Power Plants for Operational Safety and High Performance. IEEE Transactions on Nuclear Science, 2010, 57, 807-817. | 1.2 | 24 |
| 166 | Symbolic analysis of time series signals using generalized Hilbert transform. , 2009, , . | | 1 |
| 167 | Ultrasonic measurement of crack opening load for life-extending control of mechanical structures. , 2009, , . | | 3 |
| 168 | Estimation of multiple faults in aircraft gas-turbine engines. , 2009, , . | | 4 |
| 169 | Understanding phase transition in communication networks to enable robust and resilient control. , 2009, , . | | 5 |
| 170 | Data-driven estimation of multiple fault parameters in permanent magnet synchronous motors. , 2009, , . | | 1 |
| 171 | Autonomous robot navigation using optimal control of probabilistic regular languages. International Journal of Control, 2009, 82, 13-26. | 1.2 | 4 |
| 172 | Supervised self-organization of large homogeneous Swarms using Ergodic Projections of Markov Chains. , 2009, , . | | 1 |
| 173 | Suboptimal partitioning of time-series data for anomaly detection. , 2009, , . | | 6 |
| 174 | Optimal path-planning under finite memory obstacle dynamics based on probabilistic finite state automata models. , 2009, , . | | 2 |
| 175 | Data driven anomaly detection via symbolic identification of complex dynamical systems. , 2009, , . | | 2 |
| 176 | Adaptive control of sensor networks for detection of percolating faults. , 2009, , . | | 0 |
| 177 | A real time implementable All-Pair Dynamic Planning Algorithm for robot navigation based on the renormalized measure of probabilistic regular languages. , 2009, , . | | 0 |
| 178 | Behavior recognition in mobile robots using Symbolic Dynamic Filtering and language measure. , 2009, , . | | 0 |
| 179 | Asynchronous data-driven classification of weapon systems. Measurement Science and Technology, 2009, 20, 123001. | 1.4 | 5 |
| 180 | Void fraction measurement in two-phase flow processes via symbolic dynamic filtering of ultrasonic signals. Measurement Science and Technology, 2009, 20, 023001. | 1.4 | 30 |

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| 181 | Adaptive Sensor Activity Scheduling in Distributed Sensor Networks: A Statistical Mechanics Approach. International Journal of Distributed Sensor Networks, 2009, 5, 242-261. | 1.3 | 8 |
| 182 | Early detection of stator voltage imbalance in three-phase induction motors. Electric Power Systems Research, 2009, 79, 239-245. | 2.1 | 20 |
| 183 | Statistical Mechanics of Complex Systems for Pattern Identification. Journal of Statistical Physics, 2009, 134, 337-364. | 0.5 | 24 |
| 184 | Review and comparative evaluation of symbolic dynamic filtering for detection of anomaly patterns. Signal, Image and Video Processing, 2009, 3, 101-114. | 1.7 | 94 |
| 185 | An information-theoretic measure for anomaly detection in complex dynamical systems. Mechanical Systems and Signal Processing, 2009, 23, 358-371. | 4.4 | 7 |
| 186 | Statistical estimation of multiple parameters via symbolic dynamic filtering. Signal Processing, 2009, 89, 981-988. | 2.1 | 5 |
| 187 | Generalization of Hilbert transform for symbolic analysis of noisy signals. Signal Processing, 2009, 89, 1245-1251. | 2.1 | 19 |
| 188 | Underwater mine detection using symbolic pattern analysis of sidescan sonar images. , 2009, , . | | 18 |
| 189 | Ĥ: a robot path planning algorithm based on renormalised measure of probabilistic regular languages. International Journal of Control, 2009, 82, 849-867. | 1.2 | 10 |
| 190 | Signal threshold estimation in a sensor field for undersea target tracking. , 2009, , . | | 0 |
| 191 | Statistical pattern analysis of ultrasonic signals for fatigue damage detection in mechanical structures. NDT and E International, 2008, 41, 491-500. | 1.7 | 15 |
| 192 | Anomaly detection in flexible mechanical couplings via symbolic time series analysis. Journal of Sound and Vibration, 2008, 311, 608-622. | 2.1 | 9 |
| 193 | Estimation of slowly varying parameters in nonlinear systems via symbolic dynamic filtering. Signal Processing, 2008, 88, 339-348. | 2.1 | 23 |
| 194 | Fault diagnosis and isolation in aircraft gas turbine engines. , 2008, , . | | 2 |
| 195 | Structural transformations of probabilistic finite state machines. International Journal of Control, 2008, 81, 820-835. | 1.2 | 30 |
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