# José C Príncipe

## List of Publications by Year
in descending order

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|---|---|---|---|
| 357 papers | 13,511 citations | 44444 50 h-index | 32181 105 g-index |
| 358 all docs | 358 docs citations | 358 times ranked | 8533 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Multiscale principle of relevant information for hyperspectral image classification. Machine Learning, 2023, 112, 1227-1252. | 3.4 | 5 |
| 2 | Modularizing Deep Learning via Pairwise Learning With Kernels. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1441-1451. | 7.2 | 7 |
| 3 | Functional Bayesian Filter. IEEE Transactions on Signal Processing, 2022, 70, 57-71. | 3.2 | 12 |
| 4 | A self-learning cognitive architecture exploiting causality from rewards. Neural Networks, 2022, 150, 274-292. | 3.3 | 1 |
| 5 | Target Detection and Segmentation in Circular-Scan Synthetic Aperture Sonar Images Using Semisupervised Convolutional Encoder–Decoders. IEEE Journal of Oceanic Engineering, 2022, 47, 1099-1128. | 2.1 | 8 |
| 6 | Minimum Error Entropy Kalman Filter. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5819-5829. | 5.9 | 97 |
| 7 | Understanding Convolutional Neural Networks With Information Theory: An Initial Exploration. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 435-442. | 7.2 | 30 |
| 8 | Associations between MSE and SSIM as cost functions in linear decomposition with application to bit allocation for sparse coding. Neurocomputing, 2021, 422, 139-149. | 3.5 | 17 |
| 9 | Effects of Outliers on the Maximum Correntropy Estimation: A Robustness Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4007-4012. | 5.9 | 14 |
| 10 | Slow Dynamics of Acute Postoperative Pain Intensity Time Series Determined via Wavelet Analysis Are Associated With the Risk of Severe Postoperative Day 30 Pain. Anesthesia and Analgesia, 2021, 132, 1465-1474. | 1.1 | 3 |
| 11 | Coral Image Segmentation with Point-Supervision via Latent Dirichlet Allocation with Spatial Coherence. Journal of Marine Science and Engineering, 2021, 9, 157. | 1.2 | 1 |
| 12 | Marked point process representation of oscillatory dynamics underlying working memory. Journal of Neural Engineering, 2021, 18, 026016. | 1.8 | 3 |
| 13 | A multi-channel peripheral nerve stimulator with integrate-and-fire encoding. Journal of Medical Engineering and Technology, 2021, 45, 187-196. | 0.8 | 0 |
| 14 | Toward a Kernel-Based Uncertainty Decomposition Framework for Data and Models. Neural Computation, 2021, 33, 1164-1198. | 1.3 | 0 |
| 15 | Interpretable fault detection using projections of mutual information matrix. Journal of the Franklin Institute, 2021, 358, 4028-4057. | 1.9 | 3 |
| 16 | Deep Deterministic Information Bottleneck with Matrix-Based Entropy Functional. , 2021, , . | | 8 |
| 17 | Reinforcement Learning in Reproducing Kernel Hilbert Spaces. IEEE Signal Processing Magazine, 2021, 38, 34-45. | 4.6 | 3 |
| 18 | Unsupervised foveal vision neural architecture with top-down attention. Neural Networks, 2021, 141, 145-159. | 3.3 | 3 |

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|---|---------|----|-----------| 
| 19 | Biologically-Inspired Pulse Signal Processing for Intelligence at the Edge. Frontiers in Artificial Intelligence, 2021, 4, 568384. | 2.0 | 3 |
| 20 | MIMO Modeling by Learning Explicitly the Projection Space: The Maximum Correlation Ratio Cost Function. IEEE Transactions on Signal Processing, 2021, 69, 6039-6054. | 3.2 | 2 |
| 21 | Faster Convergence in Deep-Predictive-Coding Networks to Learn Deeper Representations. IEEE Transactions on Neural Networks and Learning Systems, 2021, PP, 1-15. | 7.2 | 2 |
| 22 | A Taxonomy for Neural Memory Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1780-1793. | 7.2 | 14 |
| 23 | On Kernel Methodâ€"Based Connectionist Models and Supervised Deep Learning Without Backpropagation. Neural Computation, 2020, 32, 97-135. | 1.3 | 9 |
| 24 | Probability Density Rank-Based Quantization for Convex Universal Learning Machines. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3100-3113. | 7.2 | 9 |
| 25 | Regularized Training of Convolutional Autoencoders using the RÃ©nyi-Stratonovich Value of Information. , 2020, , . | | 0 |
| 26 | Cognitive Architecture for Video Games. , 2020, , . | | 1 |
| 27 | Odor tracking in aquatic organisms: the importance of temporal and spatial intermittency of the turbulent plume. Scientific Reports, 2020, 10, 7961. | 1.6 | 20 |
| 28 | Augmented Space Linear Models. IEEE Transactions on Signal Processing, 2020, 68, 2724-2738. | 3.2 | 4 |
| 29 | Theory and Algorithms for Pulse Signal Processing. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 2707-2718. | 3.5 | 4 |
| 30 | Measuring the Discrepancy between Conditional Distributions: Methods, Properties and Applications. , 2020, , . | | 6 |
| 31 | Procedural Memory Augmented Deep Reinforcement Learning. IEEE Transactions on Artificial Intelligence, 2020, 1, 105-120. | 3.4 | 2 |
| 32 | Short-term prediction of glucose in type 1 diabetes using kernel adaptive filters. Medical and Biological Engineering and Computing, 2019, 57, 27-46. | 1.6 | 21 |
| 33 | Clustering Neural Patterns in Kernel Reinforcement Learning Assists Fast Brain Control in Brain-Machine Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1684-1694. | 2.7 | 19 |
| 34 | Multivariate Extension of Matrix-based Renyi's Î±-order Entropy Functional. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1. | 9.7 | 29 |
| 35 | Maximum Correntropy Criterion With Variable Center. IEEE Signal Processing Letters, 2019, 26, 1212-1216. | 2.1 | 71 |
| 36 | Kernel Kalman Filtering With Conditional Embedding and Maximum Correntropy Criterion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4265-4277. | 3.5 | 41 |

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|---|---------|----|-----------|
| 37 | Understanding autoencoders with information theoretic concepts. Neural Networks, 2019, 117, 104-123. | 3.3 | 88 |
| 38 | IEEE Fellows - Class of 2019 [Society Briefs]. IEEE Computational Intelligence Magazine, 2019, 14, 9-12. | 3.4 | 0 |
| 39 | A Differential-geometric Approach for Globally Solving a Non-convex, Discontinuous Depth Estimation Problem for Plenoptic Camera Images. , 2019, , . | | 0 |
| 40 | Simple Stopping Criteria for Information Theoretic Feature Selection. Entropy, 2019, 21, 99. | 1.1 | 6 |
| 41 | Predicting wrist kinematics from motor unit discharge timings for the control of active prostheses. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 47. | 2.4 | 65 |
| 42 | Concept drift detection and adaptation with hierarchical hypothesis testing. Journal of the Franklin Institute, 2019, 356, 3187-3215. | 1.9 | 34 |
| 43 | Using a Recurrent Kernel Learning Machine for Small-Sample Image Classification. , 2019, , . | | 1 |
| 44 | Fast segmentation for large and sparsely labeled coral images. , 2019, , . | | 7 |
| 45 | Discrimination of Movement-Related Cortical Potentials Exploiting Unsupervised Learned Representations From ECoGs. Frontiers in Neuroscience, 2019, 13, 1248. | 1.4 | 1 |
| 46 | Marine Animal Classification With Correntropy-Loss-Based Multiview Learning. IEEE Journal of Oceanic Engineering, 2019, 44, 1116-1129. | 2.1 | 4 |
| 47 | A real-time, power-efficient architecture for mean-shift image segmentation. Journal of Real-Time Image Processing, 2018, 14, 379-394. | 2.2 | 23 |
| 48 | A flexible testing environment for visual question answering with performance evaluation. Neurocomputing, 2018, 291, 128-135. | 3.5 | 5 |
| 49 | Complex correntropy function: Properties, and application to a channel equalization problem. Expert Systems With Applications, 2018, 107, 173-181. | 4.4 | 28 |
| 50 | Fairness constrained diffusion adaptive power control for dense small cell network. Telecommunication Systems, 2018, 68, 373-384. | 1.6 | 1 |
| 51 | Insights Into the Robustness of Minimum Error Entropy Estimation. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 731-737. | 7.2 | 51 |
| 52 | Hierarchical linear dynamical systems for unsupervised musical note recognition. Journal of the Franklin Institute, 2018, 355, 1638-1662. | 1.9 | 1 |
| 53 | Surprise-Novelty Information Processing for Gaussian Online Active Learning (SNIP-GOAL). , 2018, , . | | 3 |
| 54 | Kernelized Q-Learning for Large-Scale, Potentially Continuous, Markov Decision Processes. , 2018, , . | | 0 |

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| 55 | JOINT IMAGE SEGMENTATION AND CLASSIFICATION WITH APPLICATION TO CLUTTERED CORAL IMAGES. , 2018, , . | | 0 |
| 56 | Nearest-Instance-Centroid-Estimation Linear Discriminant Analysis (Nice Lda). , 2018, , . | | 0 |
| 57 | Correntropy Based Hierarchical Linear Dynamical System For Speech Recognition. , 2018, , . | | 2 |
| 58 | Partitioning Relational Matrices of Similarities or Dissimilarities Using the Value of Information. , 2018, , . | | 1 |
| 59 | Guided Policy Exploration for Markov Decision Processes Using an Uncertainty-Based Value-of-Information Criterion. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2080-2098. | 7.2 | 18 |
| 60 | Biologically-Inspired Spike-Based Automatic Speech Recognition of Isolated Digits Over a Reproducing Kernel Hilbert Space. Frontiers in Neuroscience, 2018, 12, 194. | 1.4 | 5 |
| 61 | Robust Period Estimation Using Mutual Information for Multiband Light Curves in the Synoptic Survey Era. Astrophysical Journal, Supplement Series, 2018, 236, 12. | 3.0 | 24 |
| 62 | Quantized Attention-Gated Kernel Reinforcement Learning for Brain–Machine Interface Decoding. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 873-886. | 7.2 | 27 |
| 63 | Maximum correntropy Kalman filter. Automatica, 2017, 76, 70-77. | 3.0 | 533 |
| 64 | Kernel Risk-Sensitive Loss: Definition, Properties and Application to Robust Adaptive Filtering. IEEE Transactions on Signal Processing, 2017, 65, 2888-2901. | 3.2 | 130 |
| 65 | Man/machine interface based on the discharge timings of spinal motor neurons after targeted muscle reinnervation. Nature Biomedical Engineering, 2017, 1, . | 11.6 | 245 |
| 66 | Marine animal classification using UMSLI in HBOI optical test facility. Multimedia Tools and Applications, 2017, 76, 23117-23138. | 2.6 | 6 |
| 67 | Transfer Learning in Adaptive Filters: The Nearest Instance Centroid-Estimation Kernel Least-Mean-Square Algorithm. IEEE Transactions on Signal Processing, 2017, 65, 6520-6535. | 3.2 | 42 |
| 68 | Adaptive filtering based on extended kernel recursive maximum correntropy. , 2017, , . | | 1 |
| 69 | A new type of distance metric and its use for clustering. Evolving Systems, 2017, 8, 167-177. | 2.4 | 22 |
| 70 | Fusing attention with visual question answering. , 2017, , . | | 0 |
| 71 | A novel methodology to quantify dense EEG in cognitive tasks. , 2017, , . | | 1 |
| 72 | Fast feedforward non-parametric deep learning network with automatic feature extraction. , 2017, , . | | 2 |

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| 73 | Automatic insect recognition using optical flight dynamics modeled by kernel adaptive ARMA network. , 2017, , . | | 5 |
| 74 | Balancing exploration and exploitation in reinforcement learning using a value of information criterion. , 2017, , . | | 18 |
| 75 | Robust support vector machines based on the rescaled hinge loss function. Pattern Recognition, 2017, 63, 139-148. | 5.1 | 76 |
| 76 | Topographical measures of functional connectivity as biomarkers for post-stroke motor recovery. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 67. | 2.4 | 57 |
| 77 | Autoencoders trained with relevant information: Blending Shannon and Wiener's perspectives. , 2017, , . | | 6 |
| 78 | A Saccade Based Framework for Real-Time Motion Segmentation Using Event Based Vision Sensors. Frontiers in Neuroscience, 2017, 11, 83. | 1.4 | 9 |
| 79 | A Marked Point Process Framework for Extracellular Electrical Potentials. Frontiers in Systems Neuroscience, 2017, 11, 95. | 1.2 | 12 |
| 80 | Undersea LiDAR imager for unobtrusive and eye safe marine wildlife detection and classification. , 2017, , . | | 7 |
| 81 | Correntropy induced joint power and admission control algorithm for dense small cell network. IET Communications, 2016, 10, 2154-2161. | 1.5 | 12 |
| 82 | Restoring Behavior via Inverse Neurocontroller in a Lesioned Cortical Spiking Model Driving a Virtual Arm. Frontiers in Neuroscience, 2016, 10, 28. | 1.4 | 32 |
| 83 | Insights into Entropy as a Measure of Multivariate Variability. Entropy, 2016, 18, 196. | 1.1 | 26 |
| 84 | Empirical data analysis: A new tool for data analytics. , 2016, , . | | 29 |
| 85 | A Study of Musical Pitch Distance Using a Self-Organized Hierarchical Linear Dynamical System on Acoustic Signals. Computer Music Journal, 2016, 40, 68-82. | 0.3 | 3 |
| 86 | Kernel adaptive filtering subject to equality function constraints. , 2016, , . | | 0 |
| 87 | Smelling Time: A Neural Basis for Olfactory Scene Analysis. Trends in Neurosciences, 2016, 39, 649-655. | 4.2 | 22 |
| 88 | Fault detection via recurrence time statistics and one-class classification. Pattern Recognition Letters, 2016, 84, 8-14. | 2.6 | 16 |
| 89 | Kernel Learning for Dynamic Texture Synthesis. IEEE Transactions on Image Processing, 2016, 25, 4782-4795. | 6.0 | 32 |
| 90 | A reconfigurable parallel FPGA accelerator for the adapt-then-combine diffusion LMS algorithm. , 2016, , . | | 0 |

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| 91 | Predicting visual attention using gamma kernels. , 2016, , . | | 7 |
| 92 | Information point set registration for shape recognition. , 2016, , . | | 5 |
| 93 | Kernel least mean square with adaptive kernel size. Neurocomputing, 2016, 191, 95-106. | 3.5 | 83 |
| 94 | Generalized Correntropy for Robust<?Pub _newline ?>Adaptive Filtering. IEEE Transactions on Signal Processing, 2016, 64, 3376-3387. | 3.2 | 515 |
| 95 | The Kernel Adaptive Autoregressive-Moving-Average Algorithm. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 334-346. | 7.2 | 27 |
| 96 | Sparse Least Logarithmic Absolute Difference Algorithm with Correntropy-Induced Metric Penalty. Circuits, Systems, and Signal Processing, 2016, 35, 1077-1089. | 1.2 | 15 |
| 97 | Efficient and robust deep learning with Correntropy-induced loss function. Neural Computing and Applications, 2016, 27, 1019-1031. | 3.2 | 67 |
| 98 | Neurally Encoding Time for Olfactory Navigation. PLoS Computational Biology, 2016, 12, e1004682. | 1.5 | 33 |
| 99 | Marine animal classification using combined CNN and hand-designed image features. , 2015, , . | | 28 |
| 100 | Proportionate Minimum Error Entropy Algorithm for Sparse System Identification. Entropy, 2015, 17, 5995-6006. | 1.1 | 24 |
| 101 | Convergence of a Fixed-Point Minimum Error Entropy Algorithm. Entropy, 2015, 17, 5549-5560. | 1.1 | 29 |
| 102 | Kernel Temporal Differences for Neural Decoding. Computational Intelligence and Neuroscience, 2015, 2015, 1-17. | 1.1 | 9 |
| 103 | Functional Connectivity in Frequency-Tagged Cortical Networks During Active Harm Avoidance. Brain Connectivity, 2015, 5, 292-302. | 0.8 | 10 |
| 104 | An algorithm based on non-squared sum of the errors. Signal Processing, 2015, 117, 188-191. | 2.1 | 3 |
| 105 | Parallel flow in Deep Predictive Coding Networks. , 2015, , . | | 0 |
| 106 | A switch kernel width method of correntropy for channel estimation. , 2015, , . | | 20 |
| 107 | Group feature selection in image classification with multiple kernel learning. , 2015, , . | | 4 |
| 108 | A model based approach to exploration of continuous-state MDPs using Divergence-to-Go. , 2015, , . | | 2 |

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| 109 | A New Clustering Separation Measure Based on Negentropy. Journal of Control, Automation and Electrical Systems, 2015, 26, 28-45. | 1.2 | 4 |
| 110 | Context Dependent Encoding Using Convolutional Dynamic Networks. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1992-2004. | 7.2 | 7 |
| 111 | Online Active Learning for Automatic Target Recognition. IEEE Journal of Oceanic Engineering, 2015, 40, 583-591. | 2.1 | 14 |
| 112 | Measures of Entropy From Data Using Infinitely Divisible Kernels. IEEE Transactions on Information Theory, 2015, 61, 535-548. | 1.5 | 61 |
| 113 | A NOVEL, FULLY AUTOMATED PIPELINE FOR PERIOD ESTIMATION IN THE EROS 2 DATA SET. Astrophysical Journal, Supplement Series, 2015, 216, 25. | 3.0 | 8 |
| 114 | Convergence of a Fixed-Point Algorithm under Maximum Correntropy Criterion. IEEE Signal Processing Letters, 2015, 22, 1723-1727. | 2.1 | 249 |
| 115 | Minimum Error Entropy Algorithms with Sparsity Penalty Constraints. Entropy, 2015, 17, 3419-3437. | 1.1 | 20 |
| 116 | Universal Approximation with Convex Optimization: Gimmick or Reality? [Discussion Forum]. IEEE Computational Intelligence Magazine, 2015, 10, 68-77. | 3.4 | 48 |
| 117 | An Adaptive Signal Processing Framework for PV Power Maximization. Circuits, Systems, and Signal Processing, 2015, 34, 2973-2992. | 1.2 | 5 |
| 118 | Mixed generative and supervised learning modes in Deep Predictive Coding Networks. , 2015, , . | | 0 |
| 119 | Linear discriminant analysis with an information divergence criterion. , 2015, , . | | 1 |
| 120 | Repairing lesions via kernel adaptive inverse control in a biomimetic model of sensorimotor cortex. , 2015, , . | | 6 |
| 121 | A variable step-size adaptive algorithm under maximum correntropy criterion. , 2015, , . | | 10 |
| 122 | Self-organizing maps with information theoretic learning. Neurocomputing, 2015, 147, 3-14. | 3.5 | 17 |
| 123 | Representing and decomposing neural potential signals. Current Opinion in Neurobiology, 2015, 31, 13-17. | 2.0 | 9 |
| 124 | Quantized mixture kernel least mean square. , 2014, , . | | 6 |
| 125 | Dynamic sparse coding with smoothing proximal gradient method. , 2014, , . | | 5 |
| 126 | Intermittency Coding in the Primary Olfactory System: A Neural Substrate for Olfactory Scene Analysis. Journal of Neuroscience, 2014, 34, 941-952. | 1.7 | 28 |

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| 127 | Projentropy: Using entropy to optimize spatial projections. , 2014, , . | | 3 |
| 128 | An Extended Result on the Optimal Estimation Under the Minimum Error Entropy Criterion. Entropy, 2014, 16, 2223-2233. | 1.1 | 1 |
| 129 | A Note on the W-S Lower Bound of the MEE Estimation. Entropy, 2014, 16, 814-824. | 1.1 | 0 |
| 130 | A Tensor-Product-Kernel Framework for Multiscale Neural Activity Decoding and Control. Computational Intelligence and Neuroscience, 2014, 2014, 1-16. | 1.1 | 12 |
| 131 | An asymmetric stagewise least square loss function for imbalanced classification. , 2014, , . | | 4 |
| 132 | Pitch estimation using non-negative matrix factorization. , 2014, , . | | 0 |
| 133 | Correntropy kernel temporal differences for reinforcement learning brain machine interfaces. , 2014, , . | | 2 |
| 134 | Sparse kernel recursive least squares using L&lt;inf&gt;1&lt;/inf&gt; regularization and a fixed-point sub-iteration. , 2014, , . | | 6 |
| 135 | Neural Decoding with Kernel-Based Metric Learning. Neural Computation, 2014, 26, 1080-1107. | 1.3 | 34 |
| 136 | On the optimization properties of the correntropic loss function in data analysis. Optimization Letters, 2014, 8, 823-839. | 0.9 | 27 |
| 137 | The C-loss function for pattern classification. Pattern Recognition, 2014, 47, 441-453. | 5.1 | 99 |
| 138 | Learning Nonlinear Generative Models of Time Series With a Kalman Filter in RKHS. IEEE Transactions on Signal Processing, 2014, 62, 141-155. | 3.2 | 36 |
| 139 | Steady-State Mean-Square Error Analysis for Adaptive Filtering under the Maximum Correntropy Criterion. IEEE Signal Processing Letters, 2014, 21, 880-884. | 2.1 | 354 |
| 140 | Trimmed affine projection algorithms. , 2014, , . | | 5 |
| 141 | Computational intelligence in control. Annual Reviews in Control, 2014, 38, 233-242. | 4.4 | 16 |
| 142 | Computational Intelligence Challenges and Applications on Large-Scale Astronomical Time Series Databases. IEEE Computational Intelligence Magazine, 2014, 9, 27-39. | 3.4 | 55 |
| 143 | Learning dependence from samples. International Journal of Bioinformatics Research and Applications, 2014, 10, 43. | 0.1 | 3 |
| 144 | Feature selection based on survival Cauchy-Schwartz mutual information. , 2014, , . | | 4 |

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|---|---------|-----|-----------|
| 145 | Cognitive Architectures for Sensory Processing. Proceedings of the IEEE, 2014, 102, 514-525. | 16.4 | 11 |
| 146 | Quantized Kernel Recursive Least Squares Algorithm. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 1484-1491. | 7.2 | 170 |
| 147 | A fast proximal method for convolutional sparse coding. , 2013, , . | | 50 |
| 148 | Quantifying bursting neuron activity from calcium signals using blind deconvolution. Journal of Neuroscience Methods, 2013, 218, 196-205. | 1.3 | 12 |
| 149 | Invexity of the Minimum Error Entropy Criterion. IEEE Signal Processing Letters, 2013, 20, 1159-1162. | 2.1 | 10 |
| 150 | A scalable RC architecture for mean-shift clustering. , 2013, , . | | 11 |
| 151 | Fixed budget quantized kernel least-mean-square algorithm. Signal Processing, 2013, 93, 2759-2770. | 2.1 | 67 |
| 152 | Kernel minimum error entropy algorithm. Neurocomputing, 2013, 121, 160-169. | 3.5 | 99 |
| 153 | Diffusion least-mean squares over adaptive networks with dynamic topologies. , 2013, , . | | 3 |
| 154 | A parameter-free kernel design based on cumulative distribution function for correntropy. , 2013, , . | | 1 |
| 155 | Mixture kernel least mean square. , 2013, , . | | 27 |
| 156 | Survival kernel with application to kernel adaptive filtering. , 2013, , . | | 7 |
| 157 | Analysis on extended kernel recursive least squares algorithm. , 2013, , . | | 0 |
| 158 | A Novel Nonparametric Distance Estimator for Densities with Error Bounds. Entropy, 2013, 15, 1609-1623. | 1.1 | 4 |
| 159 | Kernel recurrent system trained by real-time recurrent learning algorithm. , 2013, , . | | 4 |
| 160 | A greedy algorithm for model selection of tensor decompositions. , 2013, , . | | 5 |
| 161 | The Cortical Mouse: A Piece of Forgotten History in Noninvasive Brain–Computer Interfaces. IEEE Pulse, 2013, 4, 26-29. | 0.1 | 4 |
| 162 | On the Smoothed Minimum Error Entropy Criterion. Entropy, 2012, 14, 2311-2323. | 1.1 | 19 |

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| 163 | Conditional Association. Neural Computation, 2012, 24, 1882-1905. | 1.3 | 6 |
| 164 | Strictly Positive-Definite Spike Train Kernels for Point-Process Divergences. Neural Computation, 2012, 24, 2223-2250. | 1.3 | 24 |
| 165 | STOCHASTIC INFORMATION GRADIENT ALGORITHM WITH GENERALIZED GAUSSIAN DISTRIBUTION MODEL. Journal of Circuits, Systems and Computers, 2012, 21, 1250006. | 1.0 | 15 |
| 166 | Data-driven tree-structured Bayesian network for image segmentation. , 2012, , . | | 1 |
| 167 | Some Further Results on the Minimum Error Entropy Estimation. Entropy, 2012, 14, 966-977. | 1.1 | 20 |
| 168 | Survival Information Potential: A New Criterion for Adaptive System Training. IEEE Transactions on Signal Processing, 2012, 60, 1184-1194. | 3.2 | 69 |
| 169 | Temporal context in object recognition. , 2012, , . | | 1 |
| 170 | Maximum Correntropy Estimation Is a Smoothed MAP Estimation. IEEE Signal Processing Letters, 2012, 19, 491-494. | 2.1 | 256 |
| 171 | Sequential causal estimation and learning from time-varying images. , 2012, , . | | 0 |
| 172 | Kernel classifier with Correntropy loss. , 2012, , . | | 9 |
| 173 | Nearest Neighbor Distributions for imbalanced classification. , 2012, , . | | 18 |
| 174 | An adaptive kernel width update for correntropy. , 2012, , . | | 19 |
| 175 | Hidden state estimation using the Correntropy Filter with fixed point update and adaptive kernel size. , 2012, , . | | 65 |
| 176 | Mean square convergence analysis for kernel least mean square algorithm. Signal Processing, 2012, 92, 2624-2632. | 2.1 | 41 |
| 177 | A novel extended kernel recursive least squares algorithm. Neural Networks, 2012, 32, 349-357. | 3.3 | 23 |
| 178 | Quantifying Cognitive State From EEG Using Dependence Measures. IEEE Transactions on Biomedical Engineering, 2012, 59, 2773-2781. | 2.5 | 23 |
| 179 | Correntropy-based spectrum sensing for wireless microphones in man-made noise environments. , 2012, , . | | 1 |
| 180 | An Information Theoretic Algorithm for Finding Periodicities in Stellar Light Curves. IEEE Transactions on Signal Processing, 2012, 60, 5135-5145. | 3.2 | 34 |

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|---|---------|-----|-----------|
| 181 | Online learning using a Bayesian surprise metric. , 2012, , . | | 7 |
| 182 | Cellular Basis for Response Diversity in the Olfactory Periphery. PLoS ONE, 2012, 7, e34843. | 1.1 | 10 |
| 183 | Extraction of signals with higher order temporal structure using Correntropy. Signal Processing, 2012, 92, 1844-1852. | 2.1 | 3 |
| 184 | Locally linear embedding based on correntropy measure for visualization and classification. Neurocomputing, 2012, 80, 19-30. | 3.5 | 20 |
| 185 | Deformable Bayesian Network: A Robust Framework for Underwater Sensor Fusion. IEEE Journal of Oceanic Engineering, 2012, 37, 166-184. | 2.1 | 3 |
| 186 | Time-Based Compression and Classification of Heartbeats. IEEE Transactions on Biomedical Engineering, 2012, 59, 1641-1648. | 2.5 | 84 |
| 187 | Quantized Kernel Least Mean Square Algorithm. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 22-32. | 7.2 | 356 |
| 188 | Approximate reconstruction of bandlimited functions for the integrate and fire sampler. Advances in Computational Mathematics, 2012, 36, 67-78. | 0.8 | 46 |
| 189 | Adaptive background estimation using an information theoretic cost for hidden state estimation. , 2011, , . | | 24 |
| 190 | Irregular Tree-Structured Bayesian Network for image segmentation. , 2011, , . | | 4 |
| 191 | Symbiotic Brain-Machine Interface decoding using simultaneous motor and reward neural representation. , 2011, , . | | 0 |
| 192 | Closed-form cauchy-schwarz PDF divergence for mixture of Gaussians. , 2011, , . | | 46 |
| 193 | A nonparametric information theoretic approach for change detection in time series. , 2011, , . | | 0 |
| 194 | From compressive to adaptive sampling of neural and ECG recordings. , 2011, , . | | 13 |
| 195 | Towards closed-loop brain-machine experiments across wide-area networks. , 2011, , . | | 0 |
| 196 | Stochastic kernel temporal difference for reinforcement learning. , 2011, , . | | 7 |
| 197 | A real-time reconstruction algorithm for the integrate and fire sampler. , 2011, , . | | 0 |
| 198 | Kernel adaptive filtering with maximum correntropy criterion. , 2011, , . | | 135 |

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|---|---------|-----|-----------|
| 199 | A Unified Framework for Quadratic Measures of Independence. IEEE Transactions on Signal Processing, 2011, 59, 3624-3635. | 3.2 | 16 |
| 200 | Period Estimation in Astronomical Time Series Using Slotted Correntropy. IEEE Signal Processing Letters, 2011, 18, 371-374. | 2.1 | 25 |
| 201 | A metric approach toward point process divergence. , 2011, , . | | 2 |
| 202 | The integrate-and-fire sampler: A special type of asynchronous &amp;#x03A3; - &amp;#x0394; modulator. , 2011, , . | | 3 |
| 203 | Integrate and fire circuit as an ADC replacement. , 2011, , . | | 18 |
| 204 | Efficient temporal decomposition of local field potentials. , 2011, , . | | 1 |
| 205 | Statistical Coding and Decoding of Heartbeat Intervals. PLoS ONE, 2011, 6, e20227. | 1.1 | 14 |
| 206 | A variable step-size SIG algorithm for realizing the optimal adaptive FIR filter. International Journal of Control, Automation and Systems, 2011, 9, 1049-1055. | 1.6 | 7 |
| 207 | A test of independence based on a generalized correlation function. Signal Processing, 2011, 91, 15-27. | 2.1 | 27 |
| 208 | Information theoretic learning with adaptive kernels. Signal Processing, 2011, 91, 203-213. | 2.1 | 46 |
| 209 | Extended Kalman filter using a kernel recursive least squares observer. , 2011, , . | | 12 |
| 210 | Latent state visualization of neural firing rates. , 2011, , . | | 3 |
| 211 | A robust point matching algorithm for non-rigid registration using the Cauchy-Schwarz divergence. , 2011, , . | | 9 |
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