

Erik B Sudderth

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,474
citations

840776
11
h-index

794594
19
g-index

35
all docs

35
docs citations

35
times ranked

1427
citing authors

#	ARTICLE	IF	CITATIONS
1	A sticky HDP-HMM with application to speaker diarization. Annals of Applied Statistics, 2011, 5, .	1.1	225
2	Bayesian Nonparametric Inference of Switching Dynamic Linear Models. IEEE Transactions on Signal Processing, 2011, 59, 1569-1585.	5.3	162
3	An HDP-HMM for systems with state persistence. , 2008, , .		137
4	Describing Visual Scenes Using Transformed Objects and Parts. International Journal of Computer Vision, 2008, 77, 291-330.	15.6	122
5	Nonparametric belief propagation. Communications of the ACM, 2010, 53, 95-103.	4.5	108
6	Three-Dimensional Object Detection and Layout Prediction Using Clouds of Oriented Gradients. , 2016, , .		86
7	A Fully-Connected Layered Model of Foreground and Background Flow. , 2013, , .		62
8	Joint modeling of multiple time series via the beta process with application to motion capture segmentation. Annals of Applied Statistics, 2014, 8, .	1.1	62
9	Embedded Trees: Estimation of Gaussian Processes on Graphs with Cycles. IEEE Transactions on Signal Processing, 2004, 52, 3136-3150.	5.3	47
10	Layered RGBD scene flow estimation. , 2015, , .		46
11	Learning Multiscale Representations of Natural Scenes Using Dirichlet Processes. , 2007, , .		44
12	Bayesian Nonparametric Methods for Learning Markov Switching Processes. IEEE Signal Processing Magazine, 2010, , .	5.6	43
13	A Fusion Approach for Multi-Frame Optical Flow Estimation. , 2019, , .		41
14	A spectral clustering search algorithm for predicting shallow landslide size and location. Journal of Geophysical Research F: Earth Surface, 2015, 120, 300-324.	2.8	38
15	3D Scene Reconstruction With Multi-Layer Depth and Epipolar Transformers. , 2019, , .		38
16	NET-VISA: Network Processing Vertically Integrated Seismic Analysis. Bulletin of the Seismological Society of America, 2013, 103, 709-729.	2.3	36
17	Hierarchical Dirichlet processes for tracking maneuvering targets. , 2007, , .		28
18	Cascaded Scene Flow Prediction Using Semantic Segmentation. , 2017, , .		22

#	ARTICLE	IF	CITATIONS
19	Signal and Image Processing with Belief Propagation [DSP Applications]. IEEE Signal Processing Magazine, 2008, 25, 114-141.	5.6	20
20	3D Object Detection with Latent Support Surfaces. , 2018, , .		17
21	Nonparametric belief propagation for distributed tracking of robot networks with noisy inter-distance measurements. , 2009, , .		13
22	Major Advances and Emerging Developments of Graphical Models [From the Guest Editors]. IEEE Signal Processing Magazine, 2010, 27, 17-138.	5.6	12
23	Image Denoising with Nonparametric Hidden Markov Trees. , 2007, , .		10
24	Nonparametric learning for layered segmentation of natural images. , 2012, , .		10
25	Statistical and Information-Theoretic Methods for Self-Organization and Fusion of Multimodal, Networked Sensors. International Journal of High Performance Computing Applications, 2002, 16, 337-353.	3.7	9
26	Nonparametric discovery of activity patterns from video collections. , 2012, , .		9
27	Clouds of Oriented Gradients for 3D Detection of Objects, Surfaces, and Indoor Scene Layouts. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2670-2683.	13.9	7
28	Annual grassland resource pools and fluxes: sensitivity to precipitation and dry periods on two contrasting soils. Ecosphere, 2012, 3, art70-art70.	2.2	5
29	Quantifying aphid behavioral responses to environmental change. Entomologia Experimentalis Et Applicata, 2014, 150, 7-18.	1.4	5
30	Guest Editors' Introduction to the Special Section on Probabilistic Graphical Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 1729-1732.	13.9	4
31	AI's 10 to Watch. IEEE Intelligent Systems, 2008, 23, 9-19.	4.0	2
32	Nonparametric Bayesian Identification of Jump Systems with Sparse Dependencies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1591-1596.	0.4	2
33	Improved variational inference for tracking in clutter. , 2012, , .		1
34	Guest Editorsâ€™ Introduction to the Special Issue on Bayesian Nonparametrics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 209-211.	13.9	1