

Kevin H Knuth

List of Publications by Year in descending order

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89
papers

2,999
citations

393982

19
h-index

189595

50
g-index

95
all docs

95
docs citations

95
times ranked

3285
citing authors

#	ARTICLE	IF	CITATIONS
1	An Oscillatory Hierarchy Controlling Neuronal Excitability and Stimulus Processing in the Auditory Cortex. <i>Journal of Neurophysiology</i> , 2005, 94, 1904-1911.	0.9	1,086
2	Neural Dynamics and the Fundamental Mechanisms of Event-related Brain Potentials. <i>Cerebral Cortex</i> , 2004, 14, 476-483.	1.6	234
3	Trial-to-trial variability of cortical evoked responses: implications for the analysis of functional connectivity. <i>Clinical Neurophysiology</i> , 2002, 113, 206-226.	0.7	199
4	Hippocampal structural asymmetry in unsuccessful psychopaths. <i>Biological Psychiatry</i> , 2004, 55, 185-191.	0.7	185
5	Neuropsychological Correlates of Hippocampal Volumes in Patients Experiencing a First Episode of Schizophrenia. <i>American Journal of Psychiatry</i> , 2002, 159, 217-226.	4.0	106
6	Estimation of single-trial multicomponent ERPs: Differentially variable component analysis (dVCA). <i>Biological Cybernetics</i> , 2003, 89, 426-438.	0.6	70
7	Gesture-based control and EMG decomposition. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2006, 36, 503-514.	3.3	67
8	Common Data Model for Neuroscience Data and Data Model Exchange. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2001, 8, 17-33.	2.2	65
9	Bayesian evidence and model selection. , 2015, 47, 50-67.		63
10	<title>Bayesian source separation and localization</title>. , 1998, , .		60
11	EEG-Based Estimation of Mental Fatigue: Convergent Evidence for a Three-State Model. <i>Lecture Notes in Computer Science</i> , 2007, , 201-211.	1.0	55
12	Origin of complex quantum amplitudes and Feynman's rules. <i>Physical Review A</i> , 2010, 81, .	1.0	54
13	Lattice duality: The origin of probability and entropy. <i>Neurocomputing</i> , 2005, 67, 245-274.	3.5	50
14	EXONEST: BAYESIAN MODEL SELECTION APPLIED TO THE DETECTION AND CHARACTERIZATION OF EXOPLANETS VIA PHOTOMETRIC VARIATIONS. <i>Astrophysical Journal</i> , 2014, 795, 112.	1.6	48
15	A Recipe for the Estimation of Information Flow in a Dynamical System. <i>Entropy</i> , 2015, 17, 438-470.	1.1	48
16	Differentially Variable Component Analysis: Identifying Multiple Evoked Components Using Trial-to-Trial Variability. <i>Journal of Neurophysiology</i> , 2006, 95, 3257-3276.	0.9	44
17	Foundations of Inference. <i>Axioms</i> , 2012, 1, 38-73.	0.9	44
18	CHARACTERIZATION OF KEPLER-91B AND THE INVESTIGATION OF A POTENTIAL TROJAN COMPANION USING EXONEST. <i>Astrophysical Journal</i> , 2015, 814, 147.	1.6	39

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19	Initial Results from the USNO Dispersed Fourier Transform Spectrograph. <i>Astrophysical Journal</i> , 2007, 661, 616-633.	1.6	36
20	Stochastic modeling of neurobiological time series: Power, coherence, Granger causality, and separation of evoked responses from ongoing activity. <i>Chaos</i> , 2006, 16, 026113.	1.0	33
21	Combining Photometry from <i>Kepler</i> and <i>TESS</i> to Improve Short-period Exoplanet Characterization. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 074503.	1.0	33
22	Optimal data-based binning for histograms and histogram-based probability density models. , 2019, 95, 102581.		29
23	Analyzing Exoplanet Phase Curve Information Content: Toward Optimized Observing Strategies. <i>Astronomical Journal</i> , 2017, 154, 154.	1.9	27
24	Quantum Theory and Probability Theory: Their Relationship and Origin in Symmetry. <i>Symmetry</i> , 2011, 3, 171-206.	1.1	24
25	A potential foundation for emergent space-time. <i>Journal of Mathematical Physics</i> , 2014, 55, 112501.	0.5	22
26	An Atlas of [N ii] and [O iii] Images and Spectra of Planetary Nebulae. <i>Astrophysical Journal, Supplement Series</i> , 2007, 169, 289-327.	3.0	20
27	Dynamic publication model for neurophysiology databases. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 1229-1247.	1.8	17
28	Trial-by-trial estimation of amplitude and latency variability in neuronal spike trains. <i>Journal of Neuroscience Methods</i> , 2007, 160, 163-170.	1.3	16
29	Intelligent machines in the twenty-first century: foundations of inference and inquiry. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 2859-2873.	1.6	14
30	Information-based physics: an observer-centric foundation. <i>Contemporary Physics</i> , 2014, 55, 12-32.	0.8	14
31	Information Physics: The New Frontier. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	12
32	Deriving Laws from Ordering Relations. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	11
33	Measuring on Lattices. <i>AIP Conference Proceedings</i> , 2009, , .	0.3	11
34	EXONEST: The Bayesian Exoplanetary Explorer. <i>Entropy</i> , 2017, 19, 559.	1.1	11
35	Valuations on Lattices and their Application to Information Theory. , 2006, , .		10
36	Estimating Flight Characteristics of Anomalous Unidentified Aerial Vehicles. <i>Entropy</i> , 2019, 21, 939.	1.1	10

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37	Debates: Does Information Theory Provide a New Paradigm for Earth Science? Emerging Concepts and Pathways of Information Physics. <i>Water Resources Research</i> , 2020, 56, e2019WR025270.	1.7	10
38	Motion correction in MRI using an apparatus for dynamic angular position tracking (ADAPT). <i>Magnetic Resonance in Medicine</i> , 2003, 49, 138-143.	1.9	8
39	Designing Intelligent Instruments. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	6
40	The Origin of Probability and Entropy. , 2008, , .		6
41	The Deeper Roles of Mathematics in Physical Laws. <i>The Frontiers Collection</i> , 2016, , 77-90.	0.1	6
42	Source separation as an exercise in logical induction. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	5
43	Lattice Theory, Measures and Probability. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	5
44	The Origin of Complex Quantum Amplitudes. , 2009, , .		5
45	Bayesian approaches. , 2010, , 467-513.		5
46	Modeling a Sensor to Improve Its Efficacy. <i>Journal of Sensors</i> , 2013, 2013, 1-11.	0.6	5
47	A Bayesian analysis of HAT-P-7b using the EXONEST algorithm. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	5
48	Bayesian Model Testing of Ellipsoidal Variations on Stars due to Hot Jupiters. <i>Astrophysical Journal</i> , 2018, 853, 49.	1.6	5
49	The problem of motion: The statistical mechanics of Zitterbewegung. , 2015, , .		4
50	The Symmetrical Foundation of Measure, Probability, and Quantum Theories. <i>Annalen Der Physik</i> , 2019, 531, 1800057.	0.9	4
51	An Introduction to Influence Theory: Kinematics and Dynamics. <i>Annalen Der Physik</i> , 2019, 531, 1800091.	0.9	4
52	Information-Based Physics and the Influence Network. <i>The Frontiers Collection</i> , 2015, , 65-78.	0.1	4
53	Autonomous sensor placement. , 2008, , .		3
54	Autonomous science platforms and question-asking machines. , 2010, , .		3

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55	Bayesian Visual Odometry. , 2011, , .		3
56	Maximum joint entropy and information-based collaboration of automated learning machines. AIP Conference Proceedings, 2012, , .	0.3	3
57	Valuations on Lattices: Fuzzification and its Implications. , 2007, , 309-324.		3
58	Hierarchies of Models: Toward Understanding Planetary Nebulae. AIP Conference Proceedings, 2003, , .	0.3	2
59	Applying Differentially Variable Component Analysis (dVCA) to Event-related Potentials. AIP Conference Proceedings, 2004, , .	0.3	2
60	Measuring Questions: Relevance and its Relation to Entropy. AIP Conference Proceedings, 2004, , .	0.3	2
61	Bayesian Source Separation Applied to Identifying Complex Organic Molecules in Space. , 2007, , .		2
62	The Spatial Sensitivity Function of a Light Sensor. , 2009, , .		2
63	Entropy-Based Search Algorithm for Experimental Design. , 2011, , .		2
64	An information physics derivation of equations of geodesic form from the influence network. AIP Conference Proceedings, 2016, , .	0.3	2
65	Enhanced optical alignment of a digital micro mirror device through Bayesian adaptive exploration. AIP Advances, 2017, 7, 125207.	0.6	2
66	Lattices and Their Consistent Quantification. Annalen Der Physik, 2019, 531, 1700370.	0.9	2
67	Modeling transit and reflected light curves for non-spherical exoplanets. Astronomy and Computing, 2020, 32, 100406.	0.8	2
68	Analysis of Intrusion Detection and Attack Proliferation in Computer Networks. AIP Conference Proceedings, 2007, , .	0.3	1
69	Characterization of Interstellar Organic Molecules. , 2008, , .		1
70	Detection and characterization of non-transiting extra-solar planets in Kepler Data using reflected light variations. , 2012, , .		1
71	Entropy Best Paper Award 2013. Entropy, 2013, 15, 698-699.	1.1	1
72	Why square roots of probabilities?. AIP Conference Proceedings, 2016, , .	0.3	1

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73	Estimating Flight Characteristics of Anomalous Unidentified Aerial Vehicles in the 2004 Nimitz Encounter. Proceedings (mdpi), 2019, 33, .	0.2	1
74	Inductive logic: from data analysis to experimental design. AIP Conference Proceedings, 2002, , .	0.3	0
75	Coping with trial-to-trial variability of event-related neuronal spike trains: A Bayesian perspective. AIP Conference Proceedings, 2005, , .	0.3	0
76	Estimating Background Spectra. AIP Conference Proceedings, 2007, , .	0.3	0
77	Reconstructing MR images from under- or unevenly-sampled k-space. Proceedings of SPIE, 2010, , .	0.8	0
78	The Order-Theoretic Origin of Special Relativity. , 2011, , .		0
79	Preface: Bayesian Inference and Maximum Entropy Methods in Science and Engineering. , 2012, , .		0
80	Maximum entropy production in daisyworld. , 2012, , .		0
81	Detecting non-transiting exoplanets. , 2013, , .		0
82	Inferences about interactions: Fermions and the Dirac equation. , 2013, , .		0
83	Entropy Best Paper Award 2014. Entropy, 2014, 16, 726-728.	1.1	0
84	Information-based physics, influence, and forces. , 2015, , .		0
85	Entropy Best Paper Award 2015. Entropy, 2015, 17, 882-884.	1.1	0
86	Preface: The Thirty-Fifth International Workshop on Bayesian Inference and Maximum Entropy Methods in Science and Engineering (Maxent 2015). AIP Conference Proceedings, 2016, , .	0.3	0
87	The detection and characterization of exoplanets with EXONEST. AIP Conference Proceedings, 2016, , .	0.3	0
88	A classification of event sequences in the influence network. AIP Conference Proceedings, 2017, , .	0.3	0
89	The ABC of Physics. , 2021, 3, .		0