

# Jun Zhang

## List of Publications by Year in descending order

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66  
papers

1,641  
citations

516710

16  
h-index

302126

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all docs

66  
docs citations

66  
times ranked

1436  
citing authors

#	ARTICLE	IF	CITATIONS
1	$\hat{\lambda}$ -Deformation: A Canonical Framework for Statistical Manifolds of Constant Curvature. Entropy, 2022, 24, 193.	2.2	5
2	Tsallis and R�nyi Deformations Linked via a New $\hat{\lambda}$ -Duality. IEEE Transactions on Information Theory, 2022, 68, 5353-5373.	2.4	8
3	When optimal transport meets information geometry. Information Geometry, 2022, 5, 47-78.	1.2	2
4	Recent Developments on the MTW Tensor. Lecture Notes in Computer Science, 2021, , 515-523.	1.3	1
5	$\hat{\lambda}$ -Deformed probability families with subtractive and divisive normalizations. Handbook of Statistics, 2021, , 187-215.	0.6	3
6	Affine Connections with Torsion in $\hat{\lambda}$ (Para-)complexified Structures. Signals and Communication Technology, 2021, , 37-56.	0.5	0
7	Constructing rationals through conjoint measurement of numerator and denominator as approximate integer magnitudes in tradeoff relations. Behavioral and Brain Sciences, 2021, 44, e204.	0.7	0
8	Neuronal Firing Rate As Code Length: a Hypothesis. Computational Brain & Behavior, 2020, 3, 34-53.	1.7	5
9	The K�hler geometry of certain optimal transport problems. Pure and Applied Analysis, 2020, 2, 397-426.	1.1	9
10	Functional magnetic resonance imaging multivoxel pattern analysis reveals neuronal substrates for collaboration and competition with myopic and predictive strategic reasoning. Human Brain Mapping, 2020, 41, 4314-4331.	3.6	3
11	Statistical mirror symmetry. Differential Geometry and Its Applications, 2020, 73, 101678.	0.5	7
12	From Hessian to Weitzenb�ck: manifolds with torsion-carrying connections. Information Geometry, 2019, 2, 77-98.	1.2	6
13	(Para-)Holomorphic and Conjugate Connections on (Para-)Hermitian and (Para-)K�hler Manifolds. Results in Mathematics, 2019, 74, 1.	0.8	6
14	Generalizing Topological Set Operators. Electronic Notes in Theoretical Computer Science, 2019, 345, 63-76.	0.9	4
15	Characterizing projective geometry of binocular visual space by M�bius transformation. Journal of Mathematical Psychology, 2019, 88, 15-26.	1.8	4
16	Rho-Tau Embedding of Statistical Models. Signals and Communication Technology, 2019, , 1-13.	0.5	1
17	New Geometry of Parametric Statistical Models. Lecture Notes in Computer Science, 2019, , 288-296.	1.3	3
18	Hessian Curvature and Optimal Transport. Lecture Notes in Computer Science, 2019, , 423-430.	1.3	1

#	ARTICLE	IF	CITATIONS
19	Null preference and the resolution of the topological social choice paradox. <i>Mathematical Social Sciences</i> , 2018, 93, 47-51.	0.5	0
20	Information Geometry with (Para-)Kähler Structures. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 297-321.	0.2	3
21	Rho- $\tau$ embedding and gauge freedom in information geometry. <i>Information Geometry</i> , 2018, 1, 79-115.	1.2	20
22	Learning with Reproducing Kernel Banach Spaces. <i>Trends in Mathematics</i> , 2017, , 417-423.	0.1	1
23	Interaction of Codazzi Couplings with (Para-)Kähler Geometry. <i>Results in Mathematics</i> , 2017, 72, 2037-2056.	0.8	18
24	Connecting Information Geometry and Geometric Mechanics. <i>Entropy</i> , 2017, 19, 518.	2.2	14
25	Information Geometry Under Monotone Embedding. Part I: Divergence Functions. <i>Lecture Notes in Computer Science</i> , 2017, , 205-214.	1.3	2
26	(Para-)Holomorphic Connections for Information Geometry. <i>Lecture Notes in Computer Science</i> , 2017, , 186-194.	1.3	0
27	Information Geometry Under Monotone Embedding. Part II: Geometry. <i>Lecture Notes in Computer Science</i> , 2017, , 215-222.	1.3	1
28	Transformations and coupling relations for affine connections. <i>Differential Geometry and Its Applications</i> , 2016, 49, 111-130.	0.5	11
29	Reference duality and representation duality in information geometry. , 2015, , .		6
30	On Monotone Embedding in Information Geometry. <i>Entropy</i> , 2015, 17, 4485-4499.	2.2	19
31	Transformations and Coupling Relations for Affine Connections. <i>Lecture Notes in Computer Science</i> , 2015, , 326-339.	1.3	0
32	Vague-to-crisp dynamics of percept formation modeled as operant (selectionist) process. <i>Cognitive Neurodynamics</i> , 2014, 8, 71-80.	4.0	2
33	Divergence Functions and Geometric Structures They Induce on a Manifold. <i>Signals and Communication Technology</i> , 2014, , 1-30.	0.5	0
34	Vector-valued reproducing kernel Banach spaces with applications to multi-task learning. <i>Journal of Complexity</i> , 2013, 29, 195-215.	1.3	15
35	Nonparametric Information Geometry: From Divergence Function to Referential-Representational Biduality on Statistical Manifolds. <i>Entropy</i> , 2013, 15, 5384-5418.	2.2	38
36	Symplectic and Kähler Structures on Statistical Manifolds Induced from Divergence Functions. <i>Lecture Notes in Computer Science</i> , 2013, , 595-603.	1.3	10

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37	Regularized learning in Banach spaces as an optimization problem: representer theorems. <i>Journal of Global Optimization</i> , 2012, 54, 235-250.	1.8	28
38	Perspectiveâ€Taking and Depth of Theoryâ€ofâ€Mind Reasoning in Sequentialâ€Move Games. <i>Cognitive Science</i> , 2012, 36, 560-573.	1.7	15
39	On Decomposing Stimulus and Response Waveforms in Event-Related Potentials Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1534-1545.	4.2	2
40	Frames, Riesz bases, and sampling expansions in Banach spaces via semi-inner products. <i>Applied and Computational Harmonic Analysis</i> , 2011, 31, 1-25.	2.2	37
41	Model Selection with Informative Normalized Maximum Likelihood: Data Prior and Model Prior. <i>Advanced Series on Mathematical Psychology</i> , 2011, , 303-319.	0.7	3
42	Generalized semi-inner products with applications to regularized learning. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 372, 181-196.	1.0	10
43	Chronic medication does not affect hyperactive error responses in obsessive-compulsive disorder. <i>Psychophysiology</i> , 2010, 47, 913-20.	2.4	41
44	A Neural Computational Model of Incentive Salience. <i>PLoS Computational Biology</i> , 2009, 5, e1000437.	3.2	254
45	Adaptive learning via selectionism and Bayesianism, Part II: The sequential case. <i>Neural Networks</i> , 2009, 22, 229-236.	5.9	6
46	Adaptive learning via selectionism and Bayesianism, Part I: Connection between the two. <i>Neural Networks</i> , 2009, 22, 220-228.	5.9	16
47	A multi-component decomposition algorithm for event-related potentials. <i>Journal of Neuroscience Methods</i> , 2009, 178, 219-227.	2.5	8
48	Connectedness affects dot numerosity judgment: Implications for configural processing. <i>Psychonomic Bulletin and Review</i> , 2009, 16, 509-517.	2.8	94
49	Dualistic Riemannian Manifold Structure Induced from Convex Functions. <i>Advances in Mechanics and Mathematics</i> , 2009, , 437-464.	0.7	1
50	Computing motivation: Incentive salience boosts of drug or appetite states. <i>Behavioral and Brain Sciences</i> , 2008, 31, 440-441.	0.7	8
51	A note on curvature of $\hat{\pm}$ -connections of a statistical manifold. <i>Annals of the Institute of Statistical Mathematics</i> , 2007, 59, 161-170.	0.8	35
52	Statistical manifold as an affine space: A functional equation approach. <i>Journal of Mathematical Psychology</i> , 2006, 50, 60-65.	1.8	17
53	Ventral pallidal neurons code incentive motivation: amplification by mesolimbic sensitization and amphetamine. <i>European Journal of Neuroscience</i> , 2005, 22, 2617-2634.	2.6	263
54	A note on ROC analysis and non-parametric estimate of sensitivity. <i>Psychometrika</i> , 2005, 70, 203-212.	2.1	175

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55	Method of unconfounding orientation and direction tunings in neuronal response to moving bars and gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 2246.	1.5	1
56	Divergence Function, Duality, and Convex Analysis. <i>Neural Computation</i> , 2004, 16, 159-195.	2.2	122
57	Binary choice, subset choice, random utility, and ranking: A unified perspective using the permutahedron. <i>Journal of Mathematical Psychology</i> , 2004, 48, 107-134.	1.8	10
58	Dual scaling of comparison and reference stimuli in multi-dimensional psychological space. <i>Journal of Mathematical Psychology</i> , 2004, 48, 409-424.	1.8	7
59	Aggregation of utility and social choice: A topological characterization. <i>Journal of Mathematical Psychology</i> , 2003, 47, 545-556.	1.8	4
60	Two paradigms for depth of strategic reasoning in games. <i>Trends in Cognitive Sciences</i> , 2003, 7, 4-5.	7.8	8
61	Which is to blame: Instrumental rationality, or common knowledge?. <i>Behavioral and Brain Sciences</i> , 2003, 26, .	0.7	3
62	What do you think I think you think?: Strategic reasoning in matrix games. <i>Cognition</i> , 2002, 85, 1-36.	2.2	185
63	Decomposing stimulus and response component waveforms in ERP. <i>Journal of Neuroscience Methods</i> , 1998, 80, 49-63.	2.5	27
64	Analyzing Neuronal Processing Locus in Stimulus-Response Association Tasks. <i>Journal of Mathematical Psychology</i> , 1997, 41, 219-236.	1.8	10
65	How to unconfound the directional and orientational information in visual neuron's response. <i>Biological Cybernetics</i> , 1990, 63, 135-142.	1.3	18
66	On Reproducing Kernel Banach Spaces: Generic Definitions and Unified Framework of Constructions. <i>Acta Mathematica Sinica, English Series</i> , 0, , .	0.6	5