Hsieh Fushing

List of Publications by Year
in descending order

63 papers	**1,099** citations	516710 **16** h-index	434195 **31** g-index
63 all docs	**63** docs citations	**63** times ranked	**982** citing authors

#	Article	IF	Citations
1	Time-Frequency Analysis of Scalp EEG With Hilbert-Huang Transform and Deep Learning. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1549-1559.	6.3	8
2	Measuring dominance certainty and assessing its impact on individual and societal health in a nonhuman primate model: a network approach. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200438.	4.0	15
3	Unraveling Hidden Major Factors by Breaking Heterogeneity into Homogeneous Parts within Many-System Problems. Entropy, 2022, 24, 170.	2.2	4
4	Unraveling S&P500 stock volatility and networks â€" an encoding-and-decoding approach. Quantitative Finance, 2022, 22, 997-1016.	1.7	1
5	Livestock Informatics Toolkit: A Case Study in Visually Characterizing Complex Behavioral Patterns across Multiple Sensor Platforms, Using Novel Unsupervised Machine Learning and Information Theoretic Approaches. Sensors, 2022, 22, 1.	3.8	33
6	Mimicking Complexity of Structured Data Matrixâ€™s Information Content: Categorical Exploratory Data Analysis. Entropy, 2021, 23, 594.	2.2	5
7	Color-complexity enabled exhaustive color-dots identification and spatial patterns testing in images. PLoS ONE, 2021, 16, e0251258.	2.5	0
8	Categorical Exploratory Data Analysis: From Multiclass Classification and Response Manifold Analytics Perspectives of Baseball Pitching Dynamics. Entropy, 2021, 23, 792.	2.2	6
9	Evaluating reliability of tree-patterns in extreme-K categorical samples problems. Journal of Statistical Computation and Simulation, 2021, 91, 3828-3849.	1.2	1
10	Using Clustering to Examine Inter-individual Variability in Topography of Auditory Event-Related Potentials in Autism and Typical Development. Brain Topography, 2021, 34, 681-697.	1.8	5
11	Categorical Nature of Major Factor Selection via Information Theoretic Measurements. Entropy, 2021, 23, 1684.	2.2	7
12	A Data-Driven Approach to Predict and Classify Epileptic Seizures from Brain-Wide Calcium Imaging Video Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 17, 1858-1870.	3.0	12
13	Mind the Queue: A Case Study in Visualizing Heterogeneous Behavioral Patterns in Livestock Sensor Data Using Unsupervised Machine Learning Techniques. Frontiers in Veterinary Science, 2020, 7, 523.	2.2	11
14	Defining clusters of young autistic and typically developing children based on loudness-dependent auditory electrophysiological responses. Molecular Autism, 2020, 11, 48.	4.9	15
15	DCG++: A data-driven metric for geometric pattern recognition. PLoS ONE, 2019, 14, e0217838.	2.5	2
16	Unraveling the Regional Specificities of Malbec Wines from Mendoza, Argentina, and from Northern California. Agronomy, 2019, 9, 234.	3.0	6
17	Complexity of possibly gapped histogram and analysis of histogram. Royal Society Open Science, 2018, 5, 171026.	2.4	13
18	Social network community structure and the contact-mediated sharing of commensal *E. coli* among captive rhesus macaques (*Macaca mulatta*). PeerJ, 2018, 6, e4271.	2.0	21

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19	From patterned response dependency to structured covariate dependency: Entropy based categorical-pattern-matching. PLoS ONE, 2018, 13, e0198253.	2.5	16
20	Computable Expert Knowledge in Computer Games. , 2017, , .		0
21	Integrative Inferences on Pattern Geometries of Grapes Grown under Water Stress and Their Resulting Wines. PLoS ONE, 2016, 11, e0160621.	2.5	0
22	Connections Matter: Social Networks and Lifespan Health in Primate Translational Models. Frontiers in Psychology, 2016, 7, 433.	2.1	28
23	Social power, conflict policing, and the role of subordination signals in rhesus macaque society. American Journal of Physical Anthropology, 2016, 160, 102-112.	2.1	19
24	Decoupling social status and status certainty effects on health in macaques: a network approach. PeerJ, 2016, 4, e2394.	2.0	44
25	Unravelling the geometry of data matrices: effects of water stress regimes on winemaking. Journal of the Royal Society Interface, 2015, 12, 20150753.	3.4	3
26	Detection of social group instability among captive rhesus macaques using joint network modeling. Environmental Epigenetics, 2015, 61, 70-84.	1.8	46
27	Single Stock Dynamics on High-Frequency Data: From a Compressed Coding Perspective. PLoS ONE, 2014, 9, e85018.	2.5	0
28	Data Mechanics and Coupling Geometry on Binary Bipartite Networks. PLoS ONE, 2014, 9, e106154.	2.5	13
29	Systemic Testing on Bradley-Terry Model against Nonlinear Ranking Hierarchy. PLoS ONE, 2014, 9, e115367.	2.5	5
30	Multilevel social organization and space use in reticulated giraffe (Giraffa camelopardalis). Behavioral Ecology, 2014, 25, 17-26.	2.2	87
31	Bootstrapping on Undirected Binary Networks Via Statistical Mechanics. Journal of Statistical Physics, 2014, 156, 823-842.	1.2	9
32	Computing systemic risk using multiple behavioral and keystone networks: The emergence of a crisis in primate societies and banks. International Journal of Forecasting, 2014, 30, 797-806.	6.5	14
33	biDCG: A New Method for Discovering Global Features of DNA Microarray Data via an Iterative Re-Clustering Procedure. PLoS ONE, 2014, 9, e102445.	2.5	4
34	Lewis Carroll's Doublets Net of English Words: Network Heterogeneity in a Complex System. PLoS ONE, 2014, 9, e114177.	2.5	3
35	Discovering focal regions of slightly-aggregated sparse signals. Computational Statistics, 2013, 28, 2295-2308.	1.5	0
36	Computed Data-Geometry Based Supervised and Semi-supervised Learning in High Dimensional Data. , 2013, , .		0

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37	Multi-Scale Clustering by Building a Robust and Self Correcting Ultrametric Topology on Data Points. PLoS ONE, 2013, 8, e56259.	2.5	24
38	Accelerated failure time model for multivariate two-stage current-status data with parallel and longitudinal correlated random effects. Statistics and Its Interface, 2013, 6, 533-546.	0.3	0
39	Using Markov chain Monte Carlo (MCMC) to visualize and test the linearity assumption of the Bradley–Terry class of models. Animal Behaviour, 2012, 84, 1523-1531.	1.9	5
40	Discovering stock dynamics through multidimensional volatility phases. Quantitative Finance, 2012, 12, 213-230.	1.7	11
41	Semiparametric efficient inferences for lifetime regression model with time-dependent covariates. Annals of the Institute of Statistical Mathematics, 2012, 64, 1-25.	0.8	2
42	A Network Approach for Evaluating Coherence in Multivariate Systems: An Application to Psychophysiological Emotion Data. Psychometrika, 2011, 76, 124-152.	2.1	16
43	Computing a ranking network with confidence bounds from a graph-based Beta random field. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 3590-3612.	2.1	16
44	Ranking Network of a Captive Rhesus Macaque Society: A Sophisticated Corporative Kingdom. PLoS ONE, 2011, 6, e17817.	2.5	44
45	Spin–spin coupling information is crucial for unbiased NMR analysis in metabonomics. Statistics and Its Interface, 2011, 4, 443-450.	0.3	1
46	Statistical Computations on Biological Rhythms I: Dissecting Variable Cycles and Computing Signature Phases in Activity-Event Time Series. Journal of Computational and Graphical Statistics, 2010, 19, 221-239.	1.7	5
47	Non-parametric Decoding on Discrete Time Series andÂIts Applications in Bioinformatics. Statistics in Biosciences, 2010, 2, 18-40.	1.2	3
48	Exploring the Dynamics of Dyadic Interactions via Hierarchical Segmentation. Psychometrika, 2010, 75, 351-372.	2.1	11
49	Time, temperature, and data cloud geometry. Physical Review E, 2010, 82, 061110.	2.1	26
50	Optimal and robust design for efficient system-wide synchronization in networks of randomly-wired neuron-nodes. Statistics and Its Interface, 2010, 3, 159-168.	0.3	2
51	Computing circadian rhythmic patterns and beyond: introduction to a new non-Fourier analysis. Computational Statistics, 2009, 24, 409-430.	1.5	5
52	A Nearly Exhaustive Search for CpG Islands on Whole Chromosomes. International Journal of Biostatistics, 2009, 5, .	0.7	8
53	A new meta-ANOVA approach for synthesizing information under signal-heterogeneity setting with application to nuclear magnetic resonance spectroscopic data. Metabolomics, 2008, 4, 283-291.	3.0	0
54	State-space based mass event-history model I: Many decision-making agents with one target. Annals of Applied Statistics, 2008, 2, 1503-1522.	1.1	29

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55	Effects of search experience in a resource-heterogeneous environment on the oviposition decisions of the seed beetle,Callosobruchus maculatus(F.). Ecological Entomology, 2006, 31, 285-293.	2.2	14
56	Joint Modeling of Survival and Longitudinal Data: Likelihood Approach Revisited. Biometrics, 2006, 62, 1037-1043.	1.4	153
57	Testing and mapping non-stationarity in animal behavioral processes: A case study on an individual female bean weevil. Journal of Theoretical Biology, 2006, 238, 805-816.	1.7	12
58	Joint modelling of accelerated failure time and longitudinal data. Biometrika, 2005, 92, 587-603.	2.4	117
59	Twicing Kernels and a Small Bias Property of Semiparametric Estimators. Econometrica, 2004, 72, 947-962.	4.2	64
60	On heteroscedastic hazards regression models: theory and application. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2001, 63, 63-79.	2.2	45
61	A transformation model for two survival curves: An empirical process approach. Biometrika, 1996, 83, 519-528.	2.4	16
62	Empirical process approach in a two-sample location-scale model with censored data. Annals of Statistics, 1996, 24, .	2.6	11
63	Unraveling Pattern-Based Mechanics Defining Self-Organized Recurrent Behaviors in a Complex System: A Zebrafish's Calcium Brain-Wide Imaging Example. Frontiers in Applied Mathematics and Statistics, 0, 5, .	1.3	3