

CITATION REPORT

List of articles citing

Estimating mutual information

DOI: 10.1103/physreve.69.066138
Physical Review E, 2004, 69, 066138.

Source: <https://exaly.com/paper-pdf/37455768/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1959	Least-dependent-component analysis based on mutual information. <i>Physical Review E</i> , 2004 , 70, 066123	2.4	111
1958	Generalized correlation for biomolecular dynamics. 2006 , 62, 1053-61		278
1957	Estimating entropy rates with Bayesian confidence intervals. 2005 , 17, 1531-76		65
1956	Hierarchical clustering using mutual information. 2005 , 70, 278-284		153
1955	Quantitative analysis of chaotic synchronization by means of coherence. <i>Physical Review E</i> , 2005 , 72, 016218	2.4	22
1954	Comment on "Performance of different synchronization measures in real data: a case study on electroencephalographic signals". <i>Physical Review E</i> , 2005 , 72, 063901; author reply 063902	2.4	4
1953	Reply to Comment on Performance of different synchronization measures in real data: A case study on electroencephalographic signals. <i>Physical Review E</i> , 2005 , 72,	2.4	4
1952	Statistical validation of mutual information calculations: comparison of alternative numerical algorithms. <i>Physical Review E</i> , 2005 , 71, 066208	2.4	130
1951	Edgeworth approximation of multivariate differential entropy. 2005 , 17, 1903-10		58
1950	Nonlinear multivariate analysis of neurophysiological signals. 2005 , 77, 1-37		792
1949	Methods and Techniques of Complex Systems Science: An Overview. 2006 , 33-114		68
1948	Monte Carlo algorithm for least dependent non-negative mixture decomposition. 2006 , 78, 1620-7		44
1947	Separating Nonlinear Image Mixtures using a Physical Model Trained with ICA. 2006 ,		7
1946	Factorial coding of natural images: how effective are linear models in removing higher-order dependencies?. 2006 , 23, 1253-68		40
1945	Correlation patterns and information flows in rainfall fields. 2006 , 322, 89-104		27
1944	Hybrid feature subset selection for the quantitative assessment of skills of stroke patients in activity of daily living tasks. 2006 , 2006, 5699-703		2
1943	Incremental Updating of Nearest Neighbor-Based High-Dimensional Entropy Estimation.		6

1942	Nonlinear statistics reveals stronger ties between ENSO and the tropical hydrological cycle. 2006 , 33,	39
1941	Mutual information for the selection of relevant variables in spectrometric nonlinear modelling. 2006 , 80, 215-226	142
1940	Spectral feature projections that maximize Shannon mutual information with class labels. 2006 , 39, 1241-1252	48
1939	Whitening as a Tool for Estimating Mutual Information in Spatiotemporal Data Sets. 2006 , 124, 1275-1315	13
1938	Mutual information of tri-polar concentric ring electrodes. 2006 , 2006, 1106-9	3
1937	The neuroscientific exploitation of high-resolution functional magnetic resonance imaging. 2006 , 2006, 21-4	1
1936	Approaches to Information-Theoretic Analysis of Neural Activity. 2006 , 1, 302-316	69
1935	A Nearest-Neighbor Approach to Estimating Divergence between Continuous Random Vectors. 2006 ,	29
1934	Transport of information along unidimensional layered networks of dissociated hippocampal neurons and implications for rate coding. 2006 , 26, 4526-34	41
1933	Automated detection of time-dependent cross-correlation clusters in nonstationary time series. 2007 , 80, 68004	11
1932	A New Multiobjective RBFNNs Designer and Feature Selector for a Mineral Reduction Application. 2007 ,	
1931	Objective source selection in Blind Source Separation of AEPs in children with Cochlear Implants. 2007 , 2007, 6224-7	6
1930	Sensor Fault Identification Using Autoregressive Models and the Mutual Information Concept. 2007 , 347, 387-392	7
1929	Relative performance of mutual information estimation methods for quantifying the dependence among short and noisy data. <i>Physical Review E</i> , 2007 , 76, 026209	2.4 121
1928	Mutual information as a tool for identifying phase transitions in dynamical complex systems with limited data. <i>Physical Review E</i> , 2007 , 75, 051125	2.4 32
1927	Partial mutual information for coupling analysis of multivariate time series. 2007 , 99, 204101	192
1926	Detecting synchronization clusters in multivariate time series via coarse-graining of Markov chains. <i>Physical Review E</i> , 2007 , 76, 066207	2.4 32
1925	Enhanced detection of visual-evoked potentials in brain-computer interface using genetic algorithm and cyclostationary analysis. 2007 , 2007, 28692	4

1924	Estimates of the information content and dimensionality of natural scenes from proximity distributions. 2007 , 24, 922-41	40
1923	Analyzing for information, not activation, to exploit high-resolution fMRI. 2007 , 38, 649-62	197
1922	Mutual Information Based Input Selection in Neuro-Fuzzy Modeling for Short Term Load Forecasting of Iran National Power System. 2007 ,	10
1921	Input Variables Selection Using Mutual Information for Neuro Fuzzy Modeling with the Application to Time Series Forecasting. 2007 ,	5
1920	Local statistics of retinal optic flow for self-motion through natural sceneries. 2007 , 18, 343-74	22
1919	Maximization of mutual information for supervised linear feature extraction. 2007 , 18, 1433-41	55
1918	Predictability: Recent insights from information theory. 2007 , 45,	93
1917	Extraction of configurational entropy from molecular simulations via an expansion approximation. 2007 , 127, 024107	143
1916	Non-Gaussianity and Asymmetry of the Winter Monthly Precipitation Estimation from the NAO. 2007 , 135, 430-448	28
1915	Fast selection of spectral variables with B-spline compression. 2007 , 86, 208-218	35
1914	Genetic algorithm optimisation combined with partial least squares regression and mutual information variable selection procedures in near-infrared quantitative analysis of cotton-viscose textiles. 2007 , 595, 72-9	91
1913	Measuring synchronization in coupled model systems: A comparison of different approaches. 2007 , 225, 29-42	141
1912	Multivariate dynamic information. 2007 , 98, 328-349	27
1911	Full correlation analysis of conformational protein dynamics. 2008 , 70, 1294-312	108
1910	Neuronal coding and spiking randomness. 2007 , 26, 2693-701	50
1909	High-dimensional delay selection for regression models with mutual information and distance-to-diagonal criteria. 2007 , 70, 1265-1275	11
1908	Resampling methods for parameter-free and robust feature selection with mutual information. 2007 , 70, 1276-1288	95
1907	Real-time fetal heart monitoring in biomagnetic measurements using adaptive real-time ICA. 2007 , 54, 1867-74	7

1906	Automatic Artefact Removal from Event-related Potentials via Clustering. 2007 , 48, 173-183	28
1905	A post-modification approach to independent component analysis for resolution of overlapping GC/MS signals: from independent components to chemical components. 2007 , 50, 530-537	11
1904	Essential conditions for evolution of communication within a species. 2008 , 254, 768-74	6
1903	Efficient calculation of configurational entropy from molecular simulations by combining the mutual-information expansion and nearest-neighbor methods. 2008 , 29, 1605-14	88
1902	Nonlinear characterization of the performance of production and logistics networks. 2008 , 27, 84-99	26
1901	A data-driven functional projection approach for the selection of feature ranges in spectra with ICA or cluster analysis. 2008 , 91, 43-53	25
1900	Sequential extraction of mass spectra and chromatographic profiles from overlapping gas chromatography-mass spectroscopy signals. 2008 , 1190, 358-64	30
1899	Symbolic recurrence plots: A new quantitative framework for performance analysis of manufacturing networks. 2008 , 164, 85-104	24
1898	Single-trial EEG source reconstruction for brain-computer interface. 2008 , 55, 1592-601	52
1897	Kerckhoffs-Based Embedding Security Classes for WOA Data Hiding. 2008 , 3, 1-15	49
1896	Parallel Information Theory Based Construction of Gene Regulatory Networks. 2008 , 336-349	2
1895	Neighborhood detection for the identification of spatiotemporal systems. 2008 , 38, 846-54	5
1894	Regional image similarity criteria based on the Kozachenko-Leonenko entropy estimator. 2008 ,	4
1893	Continuously differentiable sample-spacing entropy estimation. 2008 , 19, 1978-84	7
1892	. 2008 ,	
1891	Alternative methods to evaluate trial level surrogacy. 2008 , 5, 194-208	9
1890	A mutual information based double-talk detector for nonlinear systems. 2008 ,	
1889	Mutual information-based feature selection enhances fMRI brain activity classification. 2008 ,	15

1888	Bayes Estimate and Inference for Entropy and Information Index of Fit. 2008 , 27, 428-456		19
1887	A computationally efficient estimator for mutual information. 2008 , 464, 1203-1215		20
1886	Sequential fixed-point ICA based on mutual information minimization. 2008 , 20, 1344-65		8
1885	Mutual nonlinear prediction as a tool to evaluate coupling strength and directionality in bivariate time series: comparison among different strategies based on k nearest neighbors. <i>Physical Review E</i> , 2008 , 78, 026201	2.4	67
1884	Synchronization in monkey visual cortex analyzed with an information-theoretic measure. 2008 , 18, 037130		19
1883	Antiepileptic drug intervention decouples electroencephalogram (EEG) signals: a case study in Unverricht-Lundborg Disease. 2008 , 2008, 2108-11		
1882	Inferring the directionality of coupling with conditional mutual information. <i>Physical Review E</i> , 2008 , 77, 026214	2.4	122
1881	Kullback-Leibler divergence estimation of continuous distributions. 2008 ,		84
1880	Quantification of intra- and inter-cluster relations in nonstationary and noisy data. <i>Physical Review E</i> , 2008 , 77, 016708	2.4	11
1879	Data-driven estimates of the number of clusters in multivariate time series. <i>Physical Review E</i> , 2008 , 78, 066703	2.4	8
1878	A class of Rényi information estimators for multidimensional densities. 2008 , 36,		142
1877	Single-neuron and ensemble contributions to decoding simultaneously recorded spike trains. 120-148		1
1876	Representational similarity analysis - connecting the branches of systems neuroscience. 2008 , 2, 4		1226
1875	SPATIAL CORRELATION OF SOLAR WIND FLUCTUATIONS AND THEIR SOLAR CYCLE DEPENDENCE. 2009 , 690, 734-742		22
1874	Relating Population-Code Representations between Man, Monkey, and Computational Models. 2009 , 3, 363-73		57
1873	Risk Factor Identification and Classification of Macrosomic Newborns by Neural Networks. 2009 ,		
1872	Effectiveness of the Kozachenko-Leonenko estimator for generalized entropic forms. <i>Physical Review E</i> , 2009 , 80, 062101	2.4	
1871	Information theoretical assessment of neural spiking activity with temperature modulation. 2009 , 2009, 4990-33		1

1870	Shared information in stationary states of stochastic processes. <i>Physical Review E</i> , 2009 , 80, 030102	2.4	10
1869	A cooperation index based on correlation matrix spectrum and Rényi entropy. 2009 ,		4
1868	EVALUATION OF MUTUAL INFORMATION ESTIMATORS FOR TIME SERIES. 2009 , 19, 4197-4215		38
1867	Improving EEG signal prediction via SSA and channel selection. 2009 ,		0
1866	Nonlinear extraction of independent components of natural images using radial gaussianization. 2009 , 21, 1485-519		54
1865	A SOM-based approach to estimating product properties from spectroscopic measurements. 2009 , 73, 71-79		5
1864	Information-theoretic feature selection for functional data classification. 2009 , 72, 3580-3589		40
1863	Parallel multiobjective memetic RBFNNs design and feature selection for function approximation problems. 2009 , 72, 3541-3555		29
1862	Statistical identification of gene association by CID in application of constructing ER regulatory network. 2009 , 10, 85		10
1861	Mutual information estimation reveals global associations between stimuli and biological processes. 2009 , 10 Suppl 1, S52		51
1860	Divergence Estimation for Multidimensional Densities Via k -Nearest-Neighbor Distances. 2009 , 55, 2392-2405		150
1859	Registration of cervical MRI using multifeature mutual information. 2009 , 28, 1412-21		65
1858	Prominence Detection Using Auditory Attention Cues and Task-Dependent High Level Information. 2009 , 17, 1009-1024		55
1857	Sensor array optimization using variable selection and a Scanning Light Pulse Technique. 2009 , 142, 435-445		7
1856	Input Selection Based on Information Theory for Constructing Predictor Models of Solar and Geomagnetic Activity Indices. 2009 , 258, 297-318		2
1855	Duroc and Iberian pork neural network classification by visible and near infrared reflectance spectroscopy. 2009 , 90, 540-547		28
1854	On a comparative study between dependence scales determined by linear and non-linear measures. 2009 , 238, 764-770		4
1853	Functional similarities and distance properties. 2009 , 183, 31-41		12

1852	Analysis of cefalexin with NIR spectrometry coupled to artificial neural networks with modified genetic algorithm for wavelength selection. 2009 , 97, 127-131	21
1851	Complex networks in climate dynamics. 2009 , 174, 157-179	325
1850	Standardless spectral analysis of independent mixture components: Experimental case studies. 2009 , 64, 479-489	9
1849	Configurational entropy in protein-peptide binding: computational study of Tsg101 ubiquitin E2 variant domain with an HIV-derived PTAP nonapeptide. 2009 , 389, 315-35	70
1848	Approaching ideal observer efficiency in using color to retrieve information from natural scenes. 2009 , 26, B14-24	11
1847	An information-theoretic approach to statistical dependence: Copula information. 2009 , 88, 68003	35
1846	Granger causality and transfer entropy are equivalent for Gaussian variables. 2009 , 103, 238701	576
1845	Efficient Parallel Feature Selection for Steganography Problems. 2009 , 1224-1231	7
1844	Mutual information approximation via maximum likelihood estimation of density ratio. 2009 ,	14
1843	Constructing Gene Regulatory Networks on Clusters of Cell Processors. 2009 ,	3
1842	Color-texture analysis by mutual information for multispectral image classification. 2009 ,	
1841	Towards real-time and memory efficient predictions of valve states in diesel engines. 2009 ,	
1840	Normalized mutual information feature selection. 2009 , 20, 189-201	636
1839	Non-independent BSS: A Model for Evoked MEG Signals with Controllable Dependencies. 2009 , 443-450	3
1838	Two-phase construction of multilayer perceptrons using information theory. 2009 , 20, 715-21	28
1837	Determination of vitamins in mixtures of various composition by spectrophotometry with self-modeling curve resolution. 2010 , 65, 588-595	
1836	Estimation of the main characteristics of reagents of the diphenylamine series using quantum chemistry and chemometrical methods. 2010 , 65, 995-1001	1
1835	Chemometrics-assisted spectrophotometric method for simultaneous determination of vitamins in complex mixtures. 2010 , 397, 1297-306	45

1834	Using near-infrared spectroscopy in the classification of white and iberian pork with neural networks. 2010 , 19, 465-470	13
1833	A method for the estimation of functional brain connectivity from time-series data. 2010 , 4, 133-49	11
1832	Causal relationships between frequency bands of extracellular signals in visual cortex revealed by an information theoretic analysis. 2010 , 29, 547-66	48
1831	New method for instance or prototype selection using mutual information in time series prediction. 2010 , 73, 2030-2038	30
1830	Epilepsy. 2010 , 159-200	
1829	Dimensionality reduction for density ratio estimation in high-dimensional spaces. 2010 , 23, 44-59	36
1828	Modulus and direction of the neural current vector identify distinct functional connectivity modes between human MT+ areas. 2010 , 192, 34-48	1
1827	Fuzzy modeling of fuel cell based on mutual information between variables. 2010 , 35, 3620-3631	11
1826	Automatic configuration of spectral dimensionality reduction methods. 2010 , 31, 1720-1727	5
1825	Independent components in spectroscopic analysis of complex mixtures. 2010 , 103, 108-115	64
1824	The effect of calcium on the conformation of cobalamin transporter BtuB. 2010 , 78, 1153-62	16
1823	Estimating absolute configurational entropies of macromolecules: the minimally coupled subspace approach. 2010 , 5, e9179	53
1822	Classification-based image-fusion framework for compressive imaging. 2010 , 19, 033009	9
1821	MAGIA, a web-based tool for miRNA and Genes Integrated Analysis. 2010 , 38, W352-9	135
1820	Audio applications. 2010 , 779-819	1
1819	An improved motion-search method based on pattern classification. 2010 ,	
1818	Exploiting Multiple-Antenna Diversity for Shared Secret Key Generation in Wireless Networks. 2010	115
1817	Predicting marital dissolutions using radial basis function neural networks. 2010 ,	4

1816	Applying support vector machines and mutual information to book losses prediction. 2010,		2
1815	Nearest Neighbor Estimates of Entropy for Multivariate Circular Distributions. 2010, 12, 1125-1144		12
1814	Nonuniform state-space reconstruction and coupling detection. <i>Physical Review E</i> , 2010, 82, 016207	2.4	121
1813	Efficient Entropy Estimation for Mutual Information Analysis Using B-Splines. 2010, 17-30		12
1812	Linear and nonlinear information flow based on time-delayed mutual information method and its application to corticomuscular interaction. 2010, 121, 392-401		49
1811	On Estimating Mutual Information for Feature Selection. 2010, 362-367		9
1810	Synchronization analysis of short EEG data through time-evolving relative wavelet entropy and IAPS affective visual stimuli. 2010,		
1809	A merging and splitting algorithm based on mutual information for design neural networks. 2010,		1
1808	Channel-independent symbol stream recovery for Orthogonal Space-Time Block-Coded signals. 2010,		
1807	Estimating biophysical variable dependences with kernels. 2010,		2
1806	Parallel Information-Theory-Based Construction of Genome-Wide Gene Regulatory Networks. 2010, 21, 1721-1733		22
1805	The confidence interval of entropy estimation through a noisy channel. 2010,		2
1804	Band selection in spectral imaging for classification and regression tasks using information theoretic measures. 2011,		1
1803	Consistent Information Content Estimation for Diffusion Tensor MR Images. 2011,		1
1802	Lower bounds on mutual information. <i>Physical Review E</i> , 2011, 83, 010101	2.4	14
1801	An information theory approach to the storm-substorm relationship. 2011, 116, n/a-n/a		31
1800	Uniform approach to linear and nonlinear interrelation patterns in multivariate time series. <i>Physical Review E</i> , 2011, 83, 066215	2.4	22
1799	Wind speed short term forecast by neuro fuzzy modeling with aid of Mutual Information at Manjil Wind Power Plant. 2011,		2

1798	Automatic colposcopy video tissue classification using higher order entropy-based image registration. 2011 , 41, 960-70	15
1797	Physical-Layer Secret Key Agreement in Two-Way Wireless Relaying Systems. 2011 , 6, 650-660	50
1796	Information transduction capacity of noisy biochemical signaling networks. 2011 , 334, 354-8	855
1795	Integrated tools for molecular dynamics simulation data analysis in the MolDynGrid virtual laboratory. 2011 ,	4
1794	Empirical Information Metrics for Prediction Power and Experiment Planning. 2011 , 2, 17-40	1
1793	Environmental enrichment modulates cortico-cortical interactions in the mouse. 2011 , 6, e25285	27
1792	Parametric construction of episode networks from pseudoperiodic time series based on mutual information. 2011 , 6, e27733	5
1791	Transcriptomic analysis of human retinal detachment reveals both inflammatory response and photoreceptor death. 2011 , 6, e28791	34
1790	Transfer entropy in magnetoencephalographic data: quantifying information flow in cortical and cerebellar networks. 2011 , 105, 80-97	147
1789	Practical bounds on image denoising: from estimation to information. 2011 , 20, 1221-33	29
1788	TRENTTOOL: a Matlab open source toolbox to analyse information flow in time series data with transfer entropy. 2011 , 12, 119	140
1787	Spectral-chemometric and quantum-chemical study of the water-acetonitrile system. 2011 , 66, 53-59	15
1786	Theoretical physics to analytics. 2011 , 66, 241-261	2
1785	Methods of the decomposition of spectra of various origin in the analysis of complex mixtures. 2011 , 66, 351-362	21
1784	Uncovering frequency locking for systems affected by chirping. 2011 , 75, 1601-1604	1
1783	Detecting novel associations in large data sets. 2011 , 334, 1518-24	1464
1782	On directed information theory and Granger causality graphs. 2011 , 30, 7-16	104
1781	Transfer entropy—a model-free measure of effective connectivity for the neurosciences. 2011 , 30, 45-67	552

1780	Multivariate information-theoretic measures reveal directed information structure and task relevant changes in fMRI connectivity. 2011 , 30, 85-107		126
1779	TRENTTOOL: an open source toolbox to estimate neural directed interactions with transfer entropy. 2011 , 12,		3
1778	Structural influence of gene networks on their inference: analysis of C3NET. 2011 , 6, 31		45
1777	A mutual information-based metric for evaluation of fMRI data-processing approaches. 2011 , 32, 699-715		15
1776	Wordom: a user-friendly program for the analysis of molecular structures, trajectories, and free energy surfaces. 2011 , 32, 1183-94		187
1775	Direct density-ratio estimation with dimensionality reduction via least-squares hetero-distributional subspace search. 2011 , 24, 183-98		24
1774	Mutual information-based feature selection for intrusion detection systems. 2011 , 34, 1184-1199		236
1773	parmigene--a parallel R package for mutual information estimation and gene network reconstruction. 2011 , 27, 1876-7		61
1772	Erratum: Estimating mutual information [Phys. Rev. E 69, 066138 (2004)]. <i>Physical Review E</i> , 2011 , 83,	2.4	13
1771	Boundary effect correction in k-nearest-neighbor estimation. <i>Physical Review E</i> , 2011 , 83, 051121	2.4	
1770	Synchronization patterns in transient spiral wave dynamics. <i>Physical Review E</i> , 2011 , 83, 057201	2.4	6
1769	Evaluating dependence in spike train metric spaces. 2011 ,		4
1768	Partial mutual information for input selection of time series prediction. 2011 ,		3
1767	Variable and time-lag selection using empirical data. 2011 ,		5
1766	Statistical analysis of the cancer cell's molecular entropy using high-throughput data. 2011 , 27, 556-63		26
1765	A Two-Level Classification-Based Approach to Inter Mode Decision in H.264/AVC. 2011 , 21, 1719-1732		8
1764	Practical measures of integrated information for time-series data. 2011 , 7, e1001052		107
1763	Determination of diethyl phthalate and polyhexamethylene guanidine in surrogate alcohol from Russia. 2011 , 2011, 704795		25

1762	Accurate prediction of the dynamical changes within the second PDZ domain of PTP1e. 2012 , 8, e1002794	20
1761	Nonparametric Estimation of Information-Based Measures of Statistical Dispersion. 2012 , 14, 1221-1233	7
1760	Genome scale inference of transcriptional regulatory networks using mutual information on complex interactions. 2012 ,	1
1759	Predicting frequency of metamerism in natural scenes by entropy of colors. 2012 , 29, A200-8	5
1758	Using mutual information to measure order in model glass formers. <i>Physical Review E</i> , 2012 , 86, 041505 2.4	31
1757	How to infer the informational energy from small datasets. 2012 ,	3
1756	Estimation of the entropy based on its polynomial representation. <i>Physical Review E</i> , 2012 , 85, 051139 2.4	10
1755	Transfer entropy as a log-likelihood ratio. 2012 , 109, 138105	77
1754	DETECTION OF DIRECT CAUSAL EFFECTS AND APPLICATION TO EPILEPTIC ELECTROENCEPHALOGRAPH ANALYSIS. 2012 , 22, 1250222	32
1753	sColn: A scoring algorithm based on complex interactions for reverse engineering regulatory networks. 2012 ,	
1752	Detecting model-plant mismatch of nonlinear multivariate systems using mutual information1. 2012 , 45, 27-32	
1751	An Information-Theoretic Approach to Optimally Calibrate Approximate Models. 2012 ,	3
1750	Detection of long-range concerted motions in protein by a distance covariance. 2012 , 8, 3009-3014	13
1749	Mutual information rate and bounds for it. 2012 , 7, e46745	18
1748	Balanced and Bias-Corrected Computation of Conformational Entropy Differences for Molecular Trajectories. 2012 , 8, 1235-45	27
1747	fMRI brain mapping with kernels. 2012 ,	
1746	On mutual information as a measure of speech intelligibility. 2012 ,	7
1745	Causal conditioning and instantaneous coupling in causality graphs. 2012 ,	1

1744	. 2012,	3
1743	Unsupervised feature selection based on non-parametric mutual information. 2012,	8
1742	Adaptive soft sensor for online prediction based on moving window Gaussian process regression. 2012,	6
1741	Quantifying causal coupling strength: a lag-specific measure for multivariate time series related to transfer entropy. <i>Physical Review E</i> , 2012, 86, 061121	2.4 102
1740	Nonlinear and Non-Gaussian Dynamic Batch Process Monitoring Using a New Multiway Kernel Independent Component Analysis and Multidimensional Mutual Information Based Dissimilarity Approach. 2012, 51, 10910-10920	32
1739	Revisiting Wiener's principle of causality -- interaction-delay reconstruction using transfer entropy and multivariate analysis on delay-weighted graphs. 2012, 2012, 3676-9	6
1738	Nearest neighbor estimate of conditional mutual information in feature selection. 2012, 39, 12697-12708	22
1737	A NON-LINEAR STRUCTURE-PROPERTY MODEL FOR OCTANOL-WATER PARTITION COEFFICIENT. 2012, 332, 85-93	7
1736	Exponential smoothing weighted correlations. 2012, 85, 1	44
1735	The application of information theory to biochemical signaling systems. 2012, 9, 045011	66
1734	Identifying distinct thermal components of a creek. 2012, 48,	7
1733	Generalized RAICAR: discover homogeneous subject (sub)groups by reproducibility of their intrinsic connectivity networks. 2012, 63, 403-14	33
1732	Fast coding unit size selection for HEVC based on Bayesian decision rule. 2012,	35
1731	Tissue-based Alzheimer gene expression markers-comparison of multiple machine learning approaches and investigation of redundancy in small biomarker sets. 2012, 13, 266	14
1730	Quality coding by neural populations in the early olfactory pathway: analysis using information theory and lessons for artificial olfactory systems. 2012, 7, e37809	15
1729	Time-delayed mutual information of the phase as a measure of functional connectivity. 2012, 7, e44633	15
1728	Minimum Mutual Information and Non-Gaussianity Through the Maximum Entropy Method: Theory and Properties. 2012, 14, 1103-1126	15
1727	Statistical inference and reverse engineering of gene regulatory networks from observational expression data. 2012, 3, 8	89

1726	Inhibition of interdomain motion in g-actin by the natural product latrunculin: a molecular dynamics study. 2012 , 80, 1998-2008	6
1725	Allosteric pathways in imidazole glycerol phosphate synthase. 2012 , 109, E1428-36	142
1724	Estimation of time-delayed mutual information and bias for irregularly and sparsely sampled time-series. 2012 , 45, 853-860	21
1723	A non-Gaussian regression algorithm based on mutual information maximization. 2012 , 111, 1-19	8
1722	A new dissimilarity method integrating multidimensional mutual information and independent component analysis for non-Gaussian dynamic process monitoring. 2012 , 115, 44-58	95
1721	Bayesian experimental design for the active nitridation of graphite by atomic nitrogen. 2012 , 36, 178-193	29
1720	A cooperation index based on the Rényi entropy of correlation matrix spectrum. 2012 , 17, 2960-2968	1
1719	Nonlinear separation of show-through image mixtures using a physical model trained with ICA. 2012 , 92, 872-884	15
1718	Approximate all nearest neighbor search for high dimensional entropy estimation for image registration. 2012 , 92, 1302-1316	19
1717	Feature selection with missing data using mutual information estimators. 2012 , 90, 3-11	46
1716	Is independent component analysis appropriate for multivariate resolution in analytical chemistry?. 2012 , 31, 134-143	59
1715	Multivariate EMD and full spectrum based condition monitoring for rotating machinery. 2012 , 27, 712-728	73
1714	The autodependogram: a graphical device to investigate serial dependences. 2012 , 33, 233-254	12
1713	Mining local and tail dependence structures based on pointwise mutual information. 2012 , 24, 78-102	1
1712	A New Measure of Watermarking Security: The Effective Key Length. 2013 , 8, 1306-1317	18
1711	Information-theoretic selection of high-dimensional spectral features for structural recognition. 2013 , 117, 214-228	20
1710	Feature selection for nonlinear models with extreme learning machines. 2013 , 102, 111-124	58
1709	Temperature optimization of metal oxide sensor arrays using Mutual Information. 2013 , 187, 331-339	44

1708	Partial transfer entropy on rank vectors. 2013 , 222, 401-420	37
1707	Inferring interdependencies in climate networks constructed at inter-annual, intra-season and longer time scales. 2013 , 222, 511-523	38
1706	Improving accuracy and efficiency of mutual information for multi-modal retinal image registration using adaptive probability density estimation. 2013 , 37, 597-606	41
1705	Is mutual information adequate for feature selection in regression?. 2013 , 48, 1-7	40
1704	Intelligent Systems to Autonomously Classify Several Arrhythmia Using Information from ECG. 2013 ,	1
1703	Information and phase transitions in socio-economic systems. 2013 , 1,	22
1702	Constructing higher-order miRNA-mRNA interaction networks in prostate cancer via hypergraph-based learning. 2013 , 7, 47	12
1701	Project dynamics and emergent complexity. 2013 , 19, 480-515	9
1700	Key generation in two-way relay wireless channels. 2013 ,	
1699	Measuring and Discovering Correlations in Large Data Sets. 2013 ,	
1698	A comparison of mutual and fuzzy-mutual information-based feature selection strategies. 2013 ,	2
1697	Identifying RNAseq-based coding-noncoding co-expression interactions in breast cancer. 2013 ,	1
1696	Spatial and Electronic Correlations in the PE545 Light-Harvesting Complex. 2013 , 4, 372-7	23
1695	Estimating information from image colors: an application to digital cameras and natural scenes. 2013 , 35, 78-91	13
1694	A non-Gaussian pattern matching based dynamic process monitoring approach and its application to cryogenic air separation process. 2013 , 58, 40-53	15
1693	Quantitative model analysis with diverse biological data: applications in developmental pattern formation. 2013 , 62, 56-67	20
1692	Information dependency: Strong consistency of Darbellay-Vajda partition estimators. 2013 , 143, 2089-2100	5
1691	Mapping interictal epileptic discharges using mutual information between concurrent EEG and fMRI. 2013 , 68, 248-62	25

1690	Effect of Denoising in Band Selection for Regression Tasks in Hyperspectral Datasets. 2013 , 6, 473-481	10
1689	Fixed-order controller for reduced-order model for damping of power oscillation in wide area network. 2013 , 53, 719-732	8
1688	A high dimensional delay selection for the reconstruction of proper phase space with cross auto-correlation. 2013 , 113, 49-57	13
1687	A new histogram-based estimation technique of entropy and mutual information using mean squared error minimization. 2013 , 39, 918-933	7
1686	Coronal Temperature Maps from Solar EUV Images: A Blind Source Separation Approach. 2013 , 283, 31-47	12
1685	"More is different" in functional magnetic resonance imaging: a review of recent data analysis techniques. 2013 , 3, 223-39	19
1684	Sufficient dimension reduction via squared-loss mutual information estimation. 2013 , 25, 725-58	39
1683	K-nearest-neighbor conditional entropy approach for the assessment of the short-term complexity of cardiovascular control. 2013 , 34, 17-33	42
1682	Estimating causal interaction between prefrontal cortex and striatum by transfer entropy. 2013 , 7, 253-61	13
1681	A graph Laplacian based approach to semi-supervised feature selection for regression problems. 2013 , 121, 5-13	48
1680	Adaptive soft sensor for online prediction and process monitoring based on a mixture of Gaussian process models. 2013 , 58, 84-97	117
1679	Data-derived soft-sensors for biological wastewater treatment plants: An overview. 2013 , 47, 88-107	142
1678	HERMES: towards an integrated toolbox to characterize functional and effective brain connectivity. 2013 , 11, 405-34	149
1677	Prediction intervals for electricity load forecasting using neural networks. 2013 ,	10
1676	Fixed-order controller for reduced-order model for damping of power oscillation in wide area network. 2013 ,	1
1675	Late Holocene Asian summer monsoon dynamics from small but complex networks of paleoclimate data. 2013 , 41, 3-19	62
1674	An independent component analysis and mutual information based non-Gaussian pattern matching method for fault detection and diagnosis of complex cryogenic air separation process. 2013 ,	2
1673	Detecting ModelPlant Mismatch of Nonlinear Multivariate Systems Using Mutual Information. 2013 , 52, 1927-1938	12

1672	Effectiveness of Digital Camera Sensors in Distinguishing Colored Surfaces in Outdoor Scenes. 2013,	1
1671	Physical layer secret key generation for fiber-optical networks. 2013, 21, 23756-71	36
1670	Statistical Mechanics and Information-Theoretic Perspectives on Complexity in the Earth System. 2013, 15, 4844-4888	63
1669	A Kernel-Based Calculation of Information on a Metric Space. 2013, 15, 4540-4552	3
1668	Machine Learning with Squared-Loss Mutual Information. 2013, 15, 80-112	24
1667	The Relation between Granger Causality and Directed Information Theory: A Review. 2013, 15, 113-143	71
1666	Exploring super-Gaussianity toward robust information-theoretical time delay estimation. 2013, 133, 1515-24	
1665	NonParametric Estimation of Mutual Information through the Entropy of the Linkage. 2013, 15, 5154-5177	9
1664	Compensated Transfer Entropy as a Tool for Reliably Estimating Information Transfer in Physiological Time Series. 2013, 15, 198-219	62
1663	Mutual Information-Based Inputs Selection for Electric Load Time Series Forecasting. 2013, 15, 926-942	19
1662	Simulation Study of Direct Causality Measures in Multivariate Time Series. 2013, 15, 2635-2661	58
1661	Reverse engineering and analysis of large genome-scale gene networks. 2013, 41, e24	28
1660	Feature Selection for Neural Network-Based Interval Forecasting of Electricity Demand Data. 2013, 389-396	1
1659	Information-theoretic measures of influence based on content dynamics. 2013,	24
1658	Measuring causality by taking the directional symbolic mutual information approach. 2013, 22, 038902	3
1657	Displacement prediction of landslide based on PSO-GSA-ELM with mixed kernel. 2013,	12
1656	Direct-coupling information measure from nonuniform embedding. <i>Physical Review E</i> , 2013, 87, 062918	2.4 87
1655	. 2013, 15, 1094-1109	30

1654	Exploring neural directed interactions with transfer entropy based on an adaptive kernel density estimator. 2013 , 2013, 4342-5	0
1653	The phase of thalamic alpha activity modulates cortical gamma-band activity: evidence from resting-state MEG recordings. 2013 , 33, 17827-35	119
1652	BLIND SIGNAL SEPARATION OF MIXTURES OF CHAOTIC PROCESSES: A COMPARISON BETWEEN INDEPENDENT COMPONENT ANALYSIS AND STATE SPACE MODELING. 2013 , 23, 1350165	1
1651	SELF-ORGANIZING PARTICLE SYSTEMS. 2013 , 16, 1250089	
1650	Quantifying the effects of social influence. 2013 , 3, 1360	27
1649	Dimensionality reduction for enhanced 3D face recognition. 2013 ,	
1648	Bayesian optimal experimental design for the Shock-tube experiment. 2013 , 410, 012040	1
1647	Correlation-based characterisation of time-varying dynamical complexity in the Earth's magnetosphere. 2013 , 20, 965-975	3
1646	Measuring information-transfer delays. 2013 , 8, e55809	165
1645	On the interpretation of synchronization in EEG hyperscanning studies: a cautionary note. 2013 , 7, 881	99
1644	Dynamically Measuring Statistical Dependencies in Multivariate Financial Time Series Using Independent Component Analysis. 2013 , 2013, 1-14	1
1643	Comparison between Pearson Correlation Coefficient and Mutual Information as a Similarity Measure of Gene Expression Profiles. 2013 , 33, 125-143	5
1642	Mutual information between discrete and continuous data sets. 2014 , 9, e87357	228
1641	Feature selection for chemical sensor arrays using mutual information. 2014 , 9, e89840	11
1640	A novel test for independence derived from an exact distribution of ith nearest neighbours. 2014 , 9, e107955	1
1639	Generating Functionals for Computational Intelligence: The Fisher Information as an Objective Function for Self-Limiting Hebbian Learning Rules. 2014 , 1,	10
1638	JIDT: An Information-Theoretic Toolkit for Studying the Dynamics of Complex Systems. 2014 , 1,	160
1637	Identifying the Coupling Structure in Complex Systems through the Optimal Causation Entropy Principle. 2014 , 16, 3416-3433	26

1636	Editorial Comment on the Special Issue of Information in Dynamical Systems and Complex Systems 2014 , 16, 5068-5077		6
1635	Local active information storage as a tool to understand distributed neural information processing. 2014 , 8, 1		110
1634	Multi-scale integration and predictability in resting state brain activity. 2014 , 8, 66		10
1633	Similarity estimators for irregular and age-uncertain time series. 2014 , 10, 107-122		44
1632	Assessing reliability of classification in the most informative spectral regions of hyperspectral images. 2014 , 17, 012064		
1631	Lingam: Non-Gaussian Methods for Estimating Causal Structures. 2014 , 41, 65-98		35
1630	Detecting determinism from point processes. <i>Physical Review E</i> , 2014 , 90, 062906	2.4	5
1629	A trade-off between local and distributed information processing associated with remote episodic versus semantic memory. 2014 , 26, 41-53		12
1628	Encyclopedia of Computational Neuroscience. 2014 , 1-6		2
1627	Encyclopedia of Computational Neuroscience. 2014 , 1-13		4
1626	Controller design with model identification approach in wide area power system. 2014 , 8, 1430-1443		13
1625	A PSO-GSA method to optimize the T-S fuzzy neural network for displacement prediction of landslide. 2014 ,		1
1624	Spike count, spike timing and temporal information in the cortex of awake, freely moving rats. 2014 , 11, 046022		7
1623	Multiscale approach to the determination of the photoactive yellow protein signaling state ensemble. 2014 , 10, e1003797		4
1622	Spatiotemporal computations of an excitable and plastic brain: neuronal plasticity leads to noise-robust and noise-constructive computations. 2014 , 10, e1003512		21
1621	Measures of Causality in Complex Datasets with Application to Financial Data. 2014 , 16, 2309-2349		21
1620	. 2014 ,		5
1619	Bias reduction in the estimation of mutual information. <i>Physical Review E</i> , 2014 , 90, 052714	2.4	6

1618 Model-driven data collection for biological systems. **2014,**

1617 Normalization of metabolomics data with applications to correlation maps. **2014, 30, 2155-61** 42

1616 Parallel Mutual Information Based Construction of Whole-Genome Networks on the Intel (R) Xeon Phi (TM) Coprocessor. **2014,** 4

1615 Systems biology. Accurate information transmission through dynamic biochemical signaling networks. **2014, 346, 1370-3** 230

1614 Selecting the optimal EEG electrode positions for a cognitive task using an Artificial Bee Colony with Adaptive Scale Factor optimization algorithm. **2014,** 3

1613 Transfer Entropy in Neuroscience. **2014, 3-36** 46

1612 Non-parametric Wiener-Granger causality in partially observed systems. **2014,** 1

1611 Variable selection for regression problems using Gaussian mixture models to estimate mutual information. **2014,** 1

1610 Detecting protein atom correlations using correlation of probability of recurrence. **2014, 82, 2180-9** 13

1609 A Novel Feature Selection Approach for Intrusion Detection Data Classification. **2014,** 12

1608 Information theoretic approach to complex biological network reconstruction: application to cytokine release in RAW 264.7 macrophages. **2014, 8, 77** 8

1607 Measuring the Dynamics of Information Processing on a Local Scale in Time and Space. **2014, 161-193** 16

1606 Empowerment: An Introduction. **2014, 67-114** 21

1605 Researches on the Chaotic Characteristics of Fluctuating Pressure in Slit-Type Energy Dissipater. **2014, 1025-1026, 1150-1159** 1

1604 Context Identification and Exploitation in Dynamic Data Mining - An Application to Classifying Electricity Price Changes. **2014, 80-89** 1

1603 A Hybrid Feature Selection Method Based on Rough Conditional Mutual Information and Naive Bayesian Classifier. **2014, 2014, 1-11** 9

1602 MIFS-ND: A mutual information-based feature selection method. **2014, 41, 6371-6385** 200

1601 Optimized dissimilarity space embedding for labeled graphs. **2014, 266, 47-64** 31

1600	High-order interactions observed in multi-task intrinsic networks are dominant indicators of aberrant brain function in schizophrenia. 2014 , 102 Pt 1, 35-48	15
1599	Optimal entropy-constrained non-uniform scalar quantizer design for low bit-rate pixel domain DVC. 2014 , 70, 1799-1824	3
1598	Phase transfer entropy: a novel phase-based measure for directed connectivity in networks coupled by oscillatory interactions. 2014 , 85 Pt 2, 853-72	132
1597	A review of feature selection methods based on mutual information. 2014 , 24, 175-186	442
1596	Survey and Merging of Sunspot Catalogs. 2014 , 289, 545-561	30
1595	Non-linear dependence and teleconnections in climate data: sources, relevance, nonstationarity. 2014 , 42, 1873-1886	41
1594	Least-squares independence regression for non-linear causal inference under non-Gaussian noise. 2014 , 96, 249-267	7
1593	Estimation of mutual information by the fuzzy histogram. 2014 , 13, 287-318	9
1592	Mutual information concept for evaluation of separation quality in hyphenated chromatographic measurements. 2014 , 139, 2574-82	3
1591	Estimating mutual information for feature selection in the presence of label noise. 2014 , 71, 832-848	15
1590	Quantifying the morphology of flow patterns in landslide-affected and unaffected soils. 2014 , 511, 460-473	12
1589	A methodology for training set instance selection using mutual information in time series prediction. 2014 , 141, 236-245	32
1588	Objective Intelligibility Measures Based on Mutual Information for Speech Subjected to Speech Enhancement Processing. 2014 , 22, 6-16	26
1587	Secret-key generation from wireless channels: Mind the reflections. 2014 ,	
1586	Hybrid intelligent control of substrate feeding for industrial fed-batch chlortetracycline fermentation process. 2014 , 53, 1822-37	23
1585	Equitability, mutual information, and the maximal information coefficient. 2014 , 111, 3354-9	248
1584	Risk analysis and assessment of overtopping concerning sea dikes in the case of storm surge. 2014 , 28, 479-487	3
1583	Quantitative near-infrared spectroscopic analysis of trimethoprim by artificial neural networks combined with modified genetic algorithm. 2014 , 30, 582-586	2

1582	Fusion of white and gray matter geometry: a framework for investigating brain development. 2014 , 18, 1349-60	19
1581	The delta test: The 1-NN estimator as a feature selection criterion. 2014 ,	5
1580	Independent Component Analysis Mixture Model Based Dissimilarity Method for Performance Monitoring of Non-Gaussian Dynamic Processes with Shifting Operating Conditions. 2014 , 53, 5055-5066	13
1579	Information-theoretic measurements of coupling between structure and dynamics in glass formers. 2014 , 113, 095703	53
1578	Information theory and signal transduction systems: from molecular information processing to network inference. 2014 , 35, 98-108	31
1577	Measuring quantum capacitance in energetically addressable molecular layers. 2014 , 86, 1337-41	49
1576	Data-based multiscale modeling for blast furnace system. 2014 , 60, 2197-2210	11
1575	Simplified Mathematical Model for Calculating the Oxygen Excess Ratio of a PEM Fuel Cell System in Real-Time Applications. 2014 , 61, 2816-2825	22
1574	RETRACTED ARTICLE: Feature selection for machine learning classification problems: a recent overview. 2014 , 42, 157-157	36
1573	Determination of Signaling Pathways in Proteins through Network Theory: Importance of the Topology. 2014 , 10, 1762-9	44
1572	Plant-wide process monitoring based on mutual information-multiblock principal component analysis. 2014 , 53, 1516-27	83
1571	Causal conditioning and instantaneous coupling in causality graphs. 2014 , 264, 279-290	5
1570	MuTE: A new Matlab toolbox for estimating the multivariate Transfer entropy in physiological variability series. 2014 ,	
1569	Evaluation of the predictability of fishing forecasts using information theory. 2014 , 80, 427-434	1
1568	Methanol and acetonitrile associates in aqueous and chloroform solutions according to ¹ H NMR spectroscopic data. 2014 , 88, 798-802	7
1567	Optimal experiment design for model selection in biochemical networks. 2014 , 8, 20	26
1566	Comparison, utility, and partition of dependence under absolutely continuous and singular distributions. 2014 , 131, 32-50	9
1565	Secret Key Generation in the Two-Way Relay Channel With Active Attackers. 2014 , 9, 476-488	36

1564	A comparative study of statistical methods used to identify dependencies between gene expression signals. 2014 , 15, 906-18		67
1563	Lag-based effective connectivity applied to fMRI: a simulation study highlighting dependence on experimental parameters and formulation. 2014 , 89, 358-77		24
1562	Bayesian evolutionary hypergraph learning for predicting cancer clinical outcomes. 2014 , 49, 101-11		8
1561	Causation entropy identifies indirect influences, dominance of neighbors and anticipatory couplings. 2014 , 267, 49-57		96
1560	Monitoring multi-mode plant-wide processes by using mutual information-based multi-block PCA, joint probability, and Bayesian inference. 2014 , 136, 121-137		74
1559	Neuronal spike train entropy estimation by history clustering. 2014 , 26, 1840-72		4
1558	A nonparametric clustering algorithm with a quantile-based likelihood estimator. 2014 , 26, 2074-101		3
1557	Cellular noise and information transmission. 2014 , 28, 156-64		74
1556	Quantifying 'causality' in complex systems: understanding transfer entropy. 2014 , 9, e99462		24
1555	Parallel genome-scale loss of function screens in 216 cancer cell lines for the identification of context-specific genetic dependencies. 2014 , 1, 140035		251
1554	Power- and spectral efficient communication system design using 1-bit quantization. 2015 ,		4
1553	SyncPy. 2015 ,		7
1552	Secure face template generation via local region hashing. 2015 ,		11
1551	Investigating bias in non-parametric mutual information estimation. 2015 ,		
1550	Optimal model-free prediction from multivariate time series. <i>Physical Review E</i> , 2015 , 91, 052909	2.4	22
1549	Quantifying information transfer and mediation along causal pathways in complex systems. <i>Physical Review E</i> , 2015 , 92, 062829	2.4	37
1548	Unified functional network and nonlinear time series analysis for complex systems science: The pyunicorn package. 2015 , 25, 113101		67
1547	Markov Stability partitioning shows spectrally dependent community structure amongst thalamocortical neural ensembles. 2015 , 16,		78

1546	miRTarVis: an interactive visual analysis tool for microRNA-mRNA expression profile data. 2015 , 9, S2	50
1545	Scoring the correlation of genes by their shared properties using OScal, an improved overlap quantification model. 2015 , 5, 10583	
1544	Calculating mutual information for spike trains and other data with distances but no coordinates. 2015 , 2, 140391	6
1543	On Shannon capacity and causal estimation. 2015 ,	1
1542	Complex batch processes quality prediction using non-Gaussian dissimilarity measure based just-in-time learning model. 2015 , 48, 595-600	1
1541	BMRF-MI: integrative identification of protein interaction network by modeling the gene dependency. 2015 , 16 Suppl 7, S10	3
1540	Variable moving windows based non-Gaussian dissimilarity analysis technique for batch processes fault detection and diagnosis. 2015 , 93, 689-707	8
1539	Temporal variability of the optimal monitoring setup assessed using information theory. 2015 , 51, 7723-7743	22
1538	Double-step block division plant-wide fault detection and diagnosis based on variable distributions and relevant features. 2015 , 29, 587-605	17
1537	An information-theoretic measure of dependency among variables in large datasets. 2015 ,	0
1536	A mutual information approach to calculating nonlinearity. 2015 , 4, 291-303	27
1535	Contribution to Transfer Entropy Estimation via the k-Nearest-Neighbors Approach. 2015 , 17, 4173-4201	16
1534	Quantifying Emergent Behavior of Autonomous Robots. 2015 , 17, 7266-7297	3
1533	Identifying changes in EEG information transfer during drowsy driving by transfer entropy. 2015 , 9, 570	34
1532	Quality measures for gene expression biclusters. 2015 , 10, e0115497	20
1531	MeDiA: Mean Distance Association and Its Applications in Nonlinear Gene Set Analysis. 2015 , 10, e0124620	
1530	Understanding Confounding Effects in Linguistic Coordination: An Information-Theoretic Approach. 2015 , 10, e0130167	
1529	Resected Brain Tissue, Seizure Onset Zone and Quantitative EEG Measures: Towards Prediction of Post-Surgical Seizure Control. 2015 , 10, e0141023	30

1528	Improved Neural Networks with Random Weights for Short-Term Load Forecasting. 2015 , 10, e0143175	7
1527	Computational study of correlated domain motions in the AcrB efflux transporter. 2015 , 2015, 487298	11
1526	Integrative Analysis with Monte Carlo Cross-Validation Reveals miRNAs Regulating Pathways Cross-Talk in Aggressive Breast Cancer. 2015 , 2015, 831314	28
1525	Estimating the decomposition of predictive information in multivariate systems. <i>Physical Review E</i> , 2015 , 91, 032904	2.4 53
1524	Global sensitivity analysis with dependence measures. 2015 , 85, 1283-1305	72
1523	Minimax Estimation of Functionals of Discrete Distributions. 2015 , 61, 2835-2885	78
1522	Extended Granger causality: a new tool to identify the structure of physiological networks. 2015 , 36, 827-43	31
1521	A novel algorithm for the precise calculation of the maximal information coefficient. 2014 , 4, 6662	32
1520	Correlation and instance based feature selection for electricity load forecasting. 2015 , 82, 29-40	119
1519	Bits from Brains for Biologically Inspired Computing. 2015 , 2,	60
1518	Nonlinear plant-wide process monitoring using MI-spectral clustering and Bayesian inference-based multiblock KPCA. 2015 , 32, 38-50	62
1517	Integrating Entropy and Copula Theories for Hydrologic Modeling and Analysis. 2015 , 17, 2253-2280	34
1516	A computationally efficient method for brain information-theoretic based causality detection using multichannel EEG. 2015 ,	
1515	Parallel Mutual Information Based Construction of Genome-Scale Networks on the Intel® Xeon Phi™ Coprocessor. 2015 , 12, 1008-20	11
1514	A low dimensional entropy-based descriptor of several tissues in skin cancer histopathology samples. 2015 ,	
1513	Anesthesia-related changes in information transfer may be caused by reduction in local information generation. 2015 , 2015, 4045-8	4
1512	Automatic structure identification of TSK fuzzy model for stock index forecasting. 2015 ,	3
1511	Bayesian global analysis of neutrino oscillation data. 2015 , 2015, 1	38

1510	Quantifying the entropy of binding for water molecules in protein cavities by computing correlations. 2015 , 108, 928-936	54
1509	The distance decay of similarity in climate variation and vegetation dynamics. 2015 , 73, 4659-4670	6
1508	Mutual information reveals multiple structural relaxation mechanisms in a model glass former. 2015 , 6, 6089	40
1507	Assessing levels of consciousness with symbolic analysis. 2015 , 373,	18
1506	Homeopathic ICA: A simple approach to expand the use of independent component analysis (ICA). 2015 , 142, 54-63	6
1505	A weighted LS-SVM based learning system for time series forecasting. 2015 , 299, 99-116	60
1504	Mutual Information in a MEG complexity measure suggests regional hyper-connectivity in schizophrenic probands. 2015 , 40, 251-2	9
1503	Application of Mutual Information Methods in TimeDistance Helioseismology. 2015 , 290, 659-671	3
1502	Assessing Coupling Dynamics from an Ensemble of Time Series. 2015 , 17, 1958-1970	36
1501	Causal Network Inference by Optimal Causation Entropy. 2015 , 14, 73-106	98
1500	Information Decomposition in Bivariate Systems: Theory and Application to Cardiorespiratory Dynamics. 2015 , 17, 277-303	81
1499	Quality Prediction in Complex Batch Processes with Just-in-Time Learning Model Based on Non-Gaussian Dissimilarity Measure. 2015 , 54, 7694-7705	28
1498	Feature selection method based on mutual information and class separability for dimension reduction in multidimensional time series for clinical data. 2015 , 21, 82-89	32
1497	A Recipe for the Estimation of Information Flow in a Dynamical System. 2015 , 17, 438-470	33
1496	Global mutual information-based feature selection approach using single-objective and multi-objective optimization. 2015 , 168, 47-54	50
1495	Feature Selection for Interval Forecasting of Electricity Demand Time Series Data. 2015 , 445-462	8
1494	Probabilistic Modeling in Machine Learning. 2015 , 545-575	1
1493	Information Theoretical Approaches. 2015 , 599-615	

1492	An automatic extraction method for individual tree crowns based on self-adaptive mutual information and tile computing. 2015 , 8, 495-516	7
1491	Evolvability signatures of generative encodings: Beyond standard performance benchmarks. 2015 , 313, 43-61	10
1490	Online local learning based adaptive soft sensor and its application to an industrial fed-batch chlortetracycline fermentation process. 2015 , 143, 58-78	21
1489	Causal inference in neuronal time-series using adaptive decomposition. 2015 , 245, 73-90	1
1488	Causal discovery on high dimensional data. 2015 , 42, 594-607	5
1487	Time series forecasting with a neuro-fuzzy modeling scheme. 2015 , 32, 481-493	27
1486	Linear and non-linear brain-heart and brain-brain interactions during sleep. 2015 , 36, 683-98	55
1485	Some Time-Delay Finding Measures and Attractor Reconstruction. 2015 , 215-256	0
1484	Directed Information Graphs. 2015 , 61, 6887-6909	60
1483	Mutual information against correlations in binary communication channels. 2015 , 16, 32	8
1482	Direct Causal Networks for the Study of Transcranial Magnetic Stimulation Effects on Focal Epileptiform Discharges. 2015 , 25, 1550006	32
1481	Causation entropy from symbolic representations of dynamical systems. 2015 , 25, 043106	20
1480	Measuring and comparing the resolution performance and the extent of rotation ambiguities of some bilinear modeling methods. 2015 , 147, 47-57	22
1479	Independent components analysis as an alternative to principal component analysis and discriminant analysis algorithms in the processing of spectrometric data. 2015 , 70, 1055-1061	9
1478	An information-theoretic approach to assess practical identifiability of parametric dynamical systems. 2015 , 268, 66-79	11
1477	Firmness prediction in <i>Prunus persica</i> 'Calrico' peaches by visible/short-wave near infrared spectroscopy and acoustic measurements using optimised linear and non-linear chemometric models. 2015 , 95, 2033-40	10
1476	Canonical information analysis. 2015 , 101, 1-9	4
1475	Human breath-print identification by E-nose, using information-theoretic feature selection prior to classification. 2015 , 217, 165-174	26

1474	Independent component analysis and multivariate curve resolution to improve spectral interpretation of complex spectroscopic data sets: Application to infrared spectra of marine organic matter aggregates. 2015 , 118, 211-222	11
1473	Employing local modeling in machine learning based methods for time-series prediction. 2015 , 42, 341-354	19
1472	Joint mutual information-based input variable selection for multivariate time series modeling. 2015 , 37, 250-257	30
1471	Estimating determinism rates to detect patterns in geospatial datasets. 2015 , 156, 11-20	9
1470	Information Analysis of Catchment Hydrologic Patterns across Temporal Scales. 2016 , 2016, 1-11	1
1469	Disentangling the Effects of Land Management and Soil Heterogeneity on Soil Moisture Dynamics. 2016 , 15, vj2015.07.0107	8
1468	Interaction between Thalamus and Hippocampus in Termination of Amygdala-Kindled Seizures in Mice. 2016 , 2016, 9580724	4
1467	Multi-Dimensional Dynamics of Human Electromagnetic Brain Activity. 2015 , 9, 713	35
1466	A Tutorial Review of Functional Connectivity Analysis Methods and Their Interpretational Pitfalls. 2015 , 9, 175	498
1465	Improvement of the k-nn Entropy Estimator with Applications in Systems Biology. 2016 , 18, 13	5
1464	An Estimator of Mutual Information and its Application to Independence Testing. 2016 , 18, 109	3
1463	Specific Differential Entropy Rate Estimation for Continuous-Valued Time Series. 2016 , 18, 190	16
1462	Insights into Entropy as a Measure of Multivariate Variability. 2016 , 18, 196	18
1461	Neural Network Ensemble Based Approach for 2D-Interval Prediction of Solar Photovoltaic Power. 2016 , 9, 829	11
1460	Rate-distortion bounds on Bayes risk in supervised learning. 2016 ,	0
1459	The NS4A Cofactor Dependent Enhancement of HCV NS3 Protease Activity Correlates with a 4D Geometrical Measure of the Catalytic Triad Region. 2016 , 11, e0168002	5
1458	An efficient automated technique for CAD diagnosis using flexible analytic wavelet transform and entropy features extracted from HRV signals. 2016 , 63, 165-172	79
1457	Soft Sensor Development Based on the Hierarchical Ensemble of Gaussian Process Regression Models for Nonlinear and Non-Gaussian Chemical Processes. 2016 , 55, 7704-7719	26

1456	A Mutual Information estimator for continuous and discrete variables applied to Feature Selection and Classification problems. 2016 , 9, 726-733	14
1455	Allosteric Pathways in the PPAR α /RXR β nuclear receptor complex. 2016 , 6, 19940	31
1454	How interacting pathways are regulated by miRNAs in breast cancer subtypes. 2016 , 17, 348	18
1453	Secure Wireless Key Establishment Using Retrodirective Array. 2016 ,	1
1452	An adaptive information-theoretic approach for identifying temporal correlations in big data sets. 2016 ,	2
1451	. 2016 , 62, 5881-5905	11
1450	The Passive Eavesdropper Affects My Channel: Secret-Key Rates under Real-World Conditions. 2016 ,	15
1449	Adaptive input data transformation for improved network reconstruction with information theoretic algorithms. 2016 , 15, 507-520	
1448	Improving Continuous-Variable Quantum Key Distribution with Shannon-Kotel'nikov Maps. 2016 ,	
1447	Adaptive monitoring for transition process using dynamic mutual information similarity analysis. 2016 ,	3
1446	Tracking epileptic seizure activity via information theoretic graphs. 2016 ,	2
1445	Scaling of information in turbulence. 2016 , 115, 58003	8
1444	Successful network inference from time-series data using mutual information rate. 2016 , 26, 043102	20
1443	Side cooperative secret key generation in peer-to-peer systems. 2016 ,	
1442	Unpredictability assessment of biometric hashing under naive and advanced threat conditions. 2016 ,	1
1441	Learning and exploiting mixed variable dependencies with a model-based EA. 2016 ,	1
1440	Robust direct visual odometry using mutual information. 2016 ,	4
1439	Acoustical gas-leak detection in the presence of multiple reflections, dispersion, and uncorrelated noise using optimized residual complexity. 2016 , 140, 1817	3

1438 Just-in-time learning algorithm using the improved similarity index. **2016,**

1437 Bootstrap rank-ordered conditional mutual information (broCMI): A nonlinear input variable selection method for water resources modeling. **2016, 52, 2299-2326** 54

1436 Discovering gene re-ranking efficiency and conserved gene-gene relationships derived from gene co-expression network analysis on breast cancer data. **2016, 6, 20518** 16

1435 Inference of Causal Information Flow in Collective Animal Behavior. **2016, 2, 107-116** 25

1434 Discrimination of coupling structures using causality networks from multivariate time series. **2016, 26, 093120** 17

1433 Mutual Information Estimation for Filter Based Feature Selection Using Particle Swarm Optimization. **2016, 719-736** 8

1432 A novel hybrid algorithm for electricity price and load forecasting in smart grids with demand-side management. **2016, 177, 40-59** 125

1431 Design and optimization of Artificial Neural Networks for the modelling of superconducting magnets operation in tokamak fusion reactors. **2016, 321, 476-491** 6

1430 A Frequency-Domain Adaptive Line Enhancer With Step-Size Control Based on Mutual Information for Harmonic Noise Reduction. **2016, 24, 1140-1154** 13

1429 Characterizing genomic alterations in cancer by complementary functional associations. **2016, 34, 539-46** 57

1428 Part mutual information for quantifying direct associations in networks. **2016, 113, 5130-5** 118

1427 Inferring time-varying brain connectivity graph based on a new method for link estimation. **2016, 27, 1-28**

1426 Soft sensor development for online quality prediction of industrial batch rubber mixing process using ensemble just-in-time Gaussian process regression models. **2016, 155, 170-182** 40

1425 Period-aware local modelling and data selection for time series prediction. **2016, 59, 60-77** 11

1424 A Novel Strategy of the Data Characteristics Test for Selecting a Process Monitoring Method Automatically. **2016, 55, 1642-1654** 8

1423 Detecting Allosteric Networks Using Molecular Dynamics Simulation. **2016, 578, 429-47** 45

1422 A First Step Toward Quantifying the Climate Information Production over the Last 68,000 Years. **2016, 343-355** 2

1421 A Model to Represent Correlated Time Series in Reliability Evaluation by Non-Sequential Monte Carlo Simulation. **2016, 1-1** 9

1420	Multivariate EEG Synchronization Strength Measures. 2016 , 235-259		1
1419	Mutual information based feature selection for multivariate time series forecasting. 2016 ,		3
1418	Social Link Prediction Based on the Users' Information Transfer. 2016 , 64-76		
1417	Population dynamics, information transfer, and spatial organization in a chemical reaction network under spatial confinement and crowding conditions. <i>Physical Review E</i> , 2016 , 94, 042306	2.4	2
1416	RETRACTED: Protonation State-Dependent Communication in Cytochrome c Oxidase. 2016 , 111, 492-503		
1415	Factors influencing clathrate hydrate stability in equilibrium with liquid water: Insights from information-based statistical analysis. 2016 , 222, 8-13		1
1414	Aggregated Compound Biological Signatures Facilitate Phenotypic Drug Discovery and Target Elucidation. 2016 , 11, 3024-3034		15
1413	Mutual information for feature selection: estimation or counting?. 2016 , 9, 95-110		15
1412	An information theoretic approach to use high-fidelity codes to calibrate low-fidelity codes. 2016 , 324, 24-43		12
1411	Speckle statistics in adaptive optics images at visible wavelengths. 2016 ,		3
1410	Changes in corticocortical and corticohippocampal network during absence seizures in WAG/Rij rats revealed with time varying Granger causality. 2016 , 64, 44-50		10
1409	Non-Gaussian Structural Equation Models for Causal Discovery. 2016 , 153-184		4
1408	Solar irradiance forecasting model based on extreme learning machine. 2016 ,		7
1407	Nonglobal correlations in collider physics. 2016 , 93,		2
1406	Nonparametric k-nearest-neighbor entropy estimator. <i>Physical Review E</i> , 2016 , 93, 013310	2.4	15
1405	Leveraging information storage to select forecast-optimal parameters for delay-coordinate reconstructions. <i>Physical Review E</i> , 2016 , 93, 022221	2.4	21
1404	Secret key generation using channel quantization with SVD for reciprocal MIMO channels. 2016 ,		17
1403	ALE for robots! A single-channel approach to robot self-noise cancellation. 2016 ,		

1402	Discovering Pair-wise Synergies in Microarray Data. 2016 , 6, 30672	4
1401	Cross-frequency information transfer from EEG to EMG in grasping. 2016 , 2016, 4531-4534	8
1400	Analysis and Choice of Input Candidates for a Virtual NOx Sensor by a Mutual Information Approach. 2016 , 9, 1642-1650	1
1399	Successful Object Encoding Induces Increased Directed Connectivity in Presymptomatic Early-Onset Alzheimer's Disease. 2017 , 55, 1195-1205	6
1398	On the Development of a Metric for Quality of Information Content over Anonymised Data-Sets. 2016 ,	0
1397	Learning Minimal Latent Directed Information Polytrees. 2016 , 28, 1723-68	12
1396	Information theoretic approaches for inference of biological networks from continuous-valued data. 2016 , 10, 89	11
1395	Comparison between K-nearest-neighbor approaches for conditional entropy estimation: Application to the assessment of the cardiac control in amyotrophic lateral sclerosis patients. 2016 , 2016, 2933-2936	
1394	. 2016 ,	5
1393	Measuring dependency via intrinsic dimensionality. 2016 ,	8
1392	Thinking outside the ROCs: Designing Decorrelated Taggers (DDT) for jet substructure. 2016 , 2016, 1	57
1391	Closed-Form and Near Closed-Form Solutions for TOA-Based Joint Source and Sensor Localization. 2016 , 64, 4751-4766	25
1390	Uncertainty Reduction in Reservoir Geostatistical Description Using Distributed Temperature Sensing (DTS) Systems Data. 2016 ,	0
1389	Brain neural synchronization and functional coupling in Alzheimer's disease as revealed by resting state EEG rhythms. 2016 , 103, 88-102	161
1388	Detecting Causality in Non-stationary Time Series Using Partial Symbolic Transfer Entropy: Evidence in Financial Data. 2016 , 47, 341-365	37
1387	Nonlinear association criterion, nonlinear Granger causality and related issues with applications to neuroimage studies. 2016 , 262, 110-32	5
1386	A Model-Free Scheme for Meme Ranking in Social Media. 2016 , 81, 1-11	12
1385	Building an Intrusion Detection System Using a Filter-Based Feature Selection Algorithm. 2016 , 65, 2986-2998	286

1384	Wiener-Granger Causality in Network Physiology With Applications to Cardiovascular Control and Neuroscience. 2016 , 104, 282-309	92
1383	Revealing Cross-Frequency Causal Interactions During a Mental Arithmetic Task Through Symbolic Transfer Entropy: A Novel Vector-Quantization Approach. 2016 , 24, 1017-1028	46
1382	Displacement prediction of landslide based on generalized regression neural networks with K-fold cross-validation. 2016 , 198, 40-47	71
1381	A Single-Channel Non-Intrusive C50 Estimator Correlated With Speech Recognition Performance. 2016 , 24, 719-732	12
1380	Does the S&P500 index lead the crude oil dynamics? A complexity-based approach. 2016 , 56, 239-246	12
1379	Related and independent variable fault detection based on KPCA and SVDD. 2016 , 39, 88-99	48
1378	The measurement of gas-liquid two-phase flows in a small diameter pipe using a dual-sensor multi-electrode conductance probe. 2016 , 27, 045101	31
1377	Granger Causality in Multivariate Time Series Using a Time-Ordered Restricted Vector Autoregressive Model. 2016 , 64, 1759-1773	49
1376	Dynamics of directional coupling underlying spike-wave discharges. 2016 , 314, 75-89	29
1375	Review of soft sensor methods for regression applications. 2016 , 152, 69-79	135
1374	Bacterial chemotaxis: information processing, thermodynamics, and behavior. 2016 , 30, 8-15	55
1373	Forecasting electricity load with advanced wavelet neural networks. 2016 , 182, 118-132	92
1372	Long-Range Reduced Predictive Information Transfers of Autistic Youths in EEG Sensor-Space During Face Processing. 2016 , 29, 283-95	15
1371	Voice conversion system using salient sub-bands and radial basis function. 2016 , 27, 2615-2628	
1370	Semantic schema theory for genetic programming. 2016 , 44, 67-87	8
1369	Applying Empirical Mode Decomposition and mutual information to separate stochastic and deterministic influences embedded in signals. 2016 , 118, 159-176	28
1368	Application of multi-gene genetic programming based on separable functional network for landslide displacement prediction. 2016 , 27, 1771-1784	7
1367	Wavelet-Based Multiresolution Smart Meter Privacy. 2017 , 8, 1710-1721	18

1366	Stock market trend prediction using AHP and weighted kernel LS-SVM. 2017 , 21, 5387-5398	15
1365	SuperMIC: Analyzing Large Biological Datasets in Bioinformatics with Maximal Information Coefficient. 2017 , 14, 783-795	4
1364	Motor control by precisely timed spike patterns. 2017 , 114, 1171-1176	55
1363	Quantifying Long-Range Interactions and Coherent Structure in Multi-Agent Dynamics. 2017 , 23, 34-57	16
1362	A new maximum relevance-minimum multicollinearity (MRmMC) method for feature selection and ranking. 2017 , 67, 47-61	59
1361	On-line attenuated total reflection infrared (ATR-IR) spectroscopy combined with advanced chemometrics for investigating the synthesis process of 3,5-diamino-1,2,4-triazole. 2017 , 14, 915-923	1
1360	On the Key Generation From Correlated Wireless Channels. 2017 , 21, 961-964	34
1359	Multi-variate residential flood loss estimation model for Jakarta: an approach based on a combination of statistical techniques. 2017 , 86, 779-804	7
1358	Causation Entropy Identifies Sparsity Structure for Parameter Estimation of Dynamic Systems. 2017 , 12,	9
1357	Dynamic Sampling and Information Encoding in Biochemical Networks. 2017 , 112, 795-804	18
1356	The nonlinear analysis of horizontal oil-water two-phase flow in a small diameter pipe. 2017 , 92, 39-49	14
1355	Unsupervised Data Driven Feature Extraction by Means of Mutual Information Maximization. 2017 , 3, 243-253	22
1354	Identifying multi-variable relationships based on the maximal information coefficient. 2017 , 21, 151-166	4
1353	Extreme learning machine based mutual information estimation with application to time-series change-points detection. 2017 , 261, 204-216	4
1352	Detection of statistically significant network changes in complex biological networks. 2017 , 11, 32	23
1351	Financial networks based on Granger causality: A case study. 2017 , 482, 65-73	35
1350	Decision support system for focal EEG signals using tunable-Q wavelet transform. 2017 , 20, 52-60	59
1349	KNN-based local linear regression for the analysis and simulation of low flow extremes under climatic influence. 2017 , 49, 3493-3511	12

1348	Speckle statistics in adaptive optics images at visible wavelengths. 2017 , 3, 025001	10
1347	The chaotic characteristic of the carbon-monoxide utilization ratio in the blast furnace. 2017 , 68, 109-115	16
1346	A complex classification approach of partial discharges from covered conductors in real environment. 2017 , 24, 1097-1104	8
1345	Reconstructing cell cycle pseudo time-series via single-cell transcriptome data. 2017 , 8, 22	67
1344	A Novel Receiver Design With Joint Coherent and Non-Coherent Processing. 2017 , 1-1	8
1343	Validation practices for satellite-based Earth observation data across communities. 2017 , 55, 779-817	108
1342	Alternative difference analysis scheme combining R-space EXAFS fit with global optimization XANES fit for X-ray transient absorption spectroscopy. 2017 , 24, 818-824	3
1341	Entropy-based sensitivity analysis of global seismic demand of concrete structures. 2017 , 146, 118-126	9
1340	miRTarVis+: Web-based interactive visual analytics tool for microRNA target predictions. 2017 , 124, 78-88	9
1339	Sensing relative signal in the Tgf- β /Smad pathway. 2017 , 114, E2975-E2982	44
1338	Modelling and Analysis of Regional Service Behavior Properties of Mobile Internet Applications. 2017 , 5, 4795-4807	4
1337	Quality Relevant and Independent Two Block Monitoring Based on Mutual Information and KPCA. 2017 , 64, 6518-6527	51
1336	Molecular Mechanism of Nucleotide-Dependent Allosteric Regulation in AMP-Activated Protein Kinase. 2017 , 121, 2919-2930	
1335	Demystifying the cytokine network: Mathematical models point the way. 2017 , 98, 115-123	18
1334	Semiparametric Estimation of Mutual Information and Related Criteria: Optimal Test of Independence. 2017 , 63, 57-71	
1333	Closed-Form and Near Closed-Form Solutions for TDOA-Based Joint Source and Sensor Localization. 2017 , 65, 1207-1221	27
1332	Mutual-information matrix analysis for nonlinear interactions of multivariate time series. 2017 , 88, 477-487	11
1331	Propofol-induced sedation diminishes the strength of frontal-parietal-occipital EEG network. 2017 , 2017, 4463-4466	3

1330	The multi-objective real-valued gene-pool optimal mixing evolutionary algorithm. 2017,	16
1329	Joint approximate diagonalization of eigenmatrices as a high-throughput approach for analysis of hyphenated and comprehensive two-dimensional gas chromatographic data. 2017, 1524, 188-201	5
1328	Predicting metabolic adaptation from networks of mutational paths. 2017, 8, 685	5
1327	Gene Regulatory Network Inference from Single-Cell Data Using Multivariate Information Measures. 2017, 5, 251-267.e3	208
1326	Network analysis of EMT and MET micro-RNA regulation in breast cancer. 2017, 7, 13534	25
1325	Protonation-State-Dependent Communication in Cytochrome c Oxidase. 2017, 113, 817-828	4
1324	. 2017,	9
1323	Distributed plant-wide process monitoring based on PCA with minimal redundancy maximal relevance. 2017, 169, 53-63	27
1322	Global transcriptional regulatory network for robustly connects gene expression to transcription factor activities. 2017, 114, 10286-10291	59
1321	Covered conductors fault behavior studied by features of complex networks. 2017,	
1320	Efficient, effective, and insightful tackling of the high-dose-rate brachytherapy treatment planning problem for prostate cancer using evolutionary multi-objective optimization algorithms. 2017,	2
1319	Atypical transistor-based chaotic oscillators: Design, realization, and diversity. 2017, 27, 073113	26
1318	Recurrence measure of conditional dependence and applications. <i>Physical Review E</i> , 2017, 95, 052206	2.4 18
1317	An Information Theory-Based Scheme for Efficient Classification of Remote Sensing Data. 2017, 55, 5864-5876	11
1316	Uncertainty quantification and value of information assessment using proxies and Markov chain Monte Carlo method for a pilot project. 2017, 157, 328-339	31
1315	Monte Carlo and deterministic calculation of the mutual information of the fission source in k-eigenvalue calculations. 2017, 101, 435-443	
1314	On the effectiveness of feature selection methods for gait classification under different covariate factors. 2017, 61, 42-57	10
1313	Information-Theoretic Evidence for Predictive Coding in the Face-Processing System. 2017, 37, 8273-8283	22

1312	Information theoretic evaluation of brain connectivity compared to cross correlation using simulated resting state fMRI data. 2017 ,		
1311	A simple nonparametric index of bivariate association for environmental data exploration. 2017 , 96, 283-290		
1310	Learning Representations for Cryptographic Hash Based Face Template Protection. 2017 , 259-285		3
1309	Exploiting linkage information in real-valued optimization with the real-valued gene-pool optimal mixing evolutionary algorithm. 2017 ,		16
1308	Abstract Representations and Generalized Frequent Pattern Discovery. 2017 , 67-76		
1307	Asymmetry of cross-correlations between intra-day and overnight volatilities. 2017 , 118, 18004		4
1306	Specific transfer entropy and other state-dependent transfer entropies for continuous-state input-output systems. <i>Physical Review E</i> , 2017 , 96, 022121	2.4	9
1305	Detection of coupling delay: A problem not yet solved. 2017 , 27, 083109		17
1304	Resting state networks in empirical and simulated dynamic functional connectivity. 2017 , 159, 388-402		20
1303	ICA based single microphone Blind Speech Separation technique using non-linear estimation of speech. 2017 ,		3
1302	Directionality indices: Testing information transfer with surrogate correction. <i>Physical Review E</i> , 2017 , 96, 052220	2.4	2
1301	Information processing in the NF- κ B pathway. 2017 , 7, 15926		12
1300	A New Feature Selection Method for Nominal Classifier based on Formal Concept Analysis. 2017 , 112, 186-194		12
1299	Graph Similarity through Entropic Manifold Alignment. 2017 , 10, 942-978		1
1298	Geometric Correlations Mitigate the Extreme Vulnerability of Multiplex Networks against Targeted Attacks. 2017 , 118, 218301		26
1297	Entropy measures, entropy estimators, and their performance in quantifying complex dynamics: Effects of artifacts, nonstationarity, and long-range correlations. <i>Physical Review E</i> , 2017 , 95, 062114	2.4	93
1296	Achievable Rates of Space-Division Multiplexed Submarine Links Subject to Nonlinearities and Power Feed Constraints. 2017 , 35, 4004-4010		15
1295	Brain activity characterization by entropic clustering of EEG signals. 2017 ,		

1294	Retrodirective-Assisted Secure Wireless Key Establishment. 2017 , 65, 320-334		14
1293	Transfer mutual information: A new method for measuring information transfer to the interactions of time series. 2017 , 467, 517-526		5
1292	Are Nonlinear Model-Free Conditional Entropy Approaches for the Assessment of Cardiac Control Complexity Superior to the Linear Model-Based One?. 2017 , 64, 1287-1296		29
1291	A statistical framework for neuroimaging data analysis based on mutual information estimated via a gaussian copula. 2017 , 38, 1541-1573		104
1290	Canonical kernel dimension reduction. 2017 , 107, 131-148		1
1289	An efficient algorithm for large-scale causal discovery. 2017 , 21, 7381-7391		2
1288	Integrating channel selection and feature selection in a real time epileptic seizure detection system. 2017 , 2017, 3206-3211		5
1287	Cardiovascular and respiratory variability during orthostatic and mental stress: A comparison of entropy estimators. 2017 , 2017, 3481-3484		1
1286	Input variables selection criteria for data-driven Soft Sensors design. 2017 ,		5
1285	Linear and nonlinear market correlations: Characterizing financial crises and portfolio optimization. <i>Physical Review E</i> , 2017 , 96, 062315	2.4	12
1284	Anomalous behaviour of mutual information in finite flocks. 2017 , 120, 38005		3
1283	NAIDS design using ChiMIC-KGS. 2017 ,		1
1282	Mutual information for intrapartum fetal heart rate analysis. 2017 , 2017, 2014-2017		2
1281	A Sliding-Window T-S Fuzzy Neural Network Model for Prediction of Silicon Content in Hot Metal 1 1This work is supported by the National Science Foundation of China(61290321).. 2017 , 50, 14988-14991		6
1280	Review of data structures for computationally efficient nearest-neighbour entropy estimators for large systems with periodic boundary conditions. 2017 , 23, 109-117		4
1279	Anomaly based intrusion detection using filter based feature selection on KDD-CUP 99. 2017 ,		16
1278	Variable selection based on maximum information coefficient for data modeling. 2017 ,		3
1277	Detection of stegosystems using block ciphers for encryption of the embedded messages. 2017 ,		0

1276	A novel blind source separation method based on monotonic functions and its application to ion-selective electrode arrays. 2017,	
1275	Know Thy Neighbor - A Data-Driven Approach to Neighborhood Estimation in VANETs. 2017,	2
1274	Information theoretic structure learning with confidence. 2017,	7
1273	Demystifying fixed k-nearest neighbor information estimators. 2017,	3
1272	Real-time decoding of bladder pressure from pelvic nerve activity. 2017,	2
1271	Security Analysis of a Novel Artificial Randomness Approach for Fast Key Generation. 2017,	12
1270	Generalized R-squared for detecting dependence. 2017, 104, 129-139	17
1269	Tunable-Q Wavelet Transform Based Multiscale Entropy Measure for Automated Classification of Epileptic EEG Signals. 2017, 7, 385	147
1268	Quadratic Mutual Information Feature Selection. 2017, 19, 157	8
1267	Transfer Entropy for Nonparametric Granger Causality Detection: An Evaluation of Different Resampling Methods. 2017, 19, 372	8
1266	Information Theory to Probe Intrapartum Fetal Heart Rate Dynamics. 2017, 19, 640	13
1265	Using SF6 Decomposed Component Analysis for the Diagnosis of Partial Discharge Severity Initiated by Free Metal Particle Defect. 2017, 10, 1119	12
1264	Feature Selection for Partial Discharge Severity Assessment in Gas-Insulated Switchgear Based on Minimum Redundancy and Maximum Relevance. 2017, 10, 1516	8
1263	Efficient Computation of Functional Brain Networks: toward Real-Time Functional Connectivity. 2017, 11, 8	17
1262	Investigating Brain Connectomic Alterations in Autism Using the Reproducibility of Independent Components Derived from Resting State Functional MRI Data. 2017, 11, 459	11
1261	Assessment of resampling methods for causality testing: A note on the US inflation behavior. 2017, 12, e0180852	18
1260	Chaotic itinerancy within the coupled dynamics between a physical body and neural oscillator networks. 2017, 12, e0182518	11
1259	The influence of filtering and downsampling on the estimation of transfer entropy. 2017, 12, e0188210	18

1258	Data-driven estimation of mutual information using frequency domain and its application to epilepsy. 2017 ,		4
1257	Ablation as targeted perturbation to rewire communication network of persistent atrial fibrillation. 2017 , 12, e0179459		10
1256	Breakdown of local information processing may underlie isoflurane anesthesia effects. 2017 , 13, e1005511		28
1255	Efficient encoding of motion is mediated by gap junctions in the fly visual system. 2017 , 13, e1005846		6
1254	Hilbert-Schmidt and Sobol sensitivity indices for static and time series Wnt signaling measurements in colorectal cancer - part A. 2017 , 11, 120		0
1253	Noise suppression and speech enhancement for hearing aid applications using smartphones. 2017 ,		2
1252	. 2017 ,		4
1251	Inputs screening of hot metal silicon content model on blast furnace. 2017 ,		3
1250	Quality assessment of voice converted speech using articulatory features. 2017 ,		3
1249	Quantitative evaluation of breast CT reconstruction by means of figures of merit based on similarity metrics. 2017 ,		1
1248	Multiscale transfer entropy: Measuring information transfer on multiple time scales. 2018 , 62, 202-212		23
1247	Ghost interactions in MEG/EEG source space: A note of caution on inter-areal coupling measures. 2018 , 173, 632-643		126
1246	Mutual information identifies spurious Hurst phenomena in resting state EEG and fMRI data. <i>Physical Review E</i> , 2018 , 97, 022415	2.4	14
1245	A new wind power prediction method based on ridgelet transforms, hybrid feature selection and closed-loop forecasting. 2018 , 36, 20-30		212
1244	Separation of pulsar signals from noise using supervised machine learning algorithms. 2018 , 23, 15-26		35
1243	Computational Re-design of Synthetic Genetic Oscillators for Independent Amplitude and Frequency Modulation. 2018 , 6, 508-520.e5		21
1242	Generating Redundant Features with Unsupervised Multi-tree Genetic Programming. 2018 , 84-100		9
1241	Structural Health Monitoring Sensor Network Optimization through Bayesian Experimental Design. 2018 , 4, 04018016		21

1240	Integrative exploration of large high-dimensional datasets. 2018 , 12,	1
1239	Predictable information in neural signals during resting state is reduced in autism spectrum disorder. 2018 , 39, 3227-3240	8
1238	Mutual Information in Frequency and Its Application to Measure Cross-Frequency Coupling in Epilepsy. 2018 , 66, 3008-3023	10
1237	Optimal information networks: Application for data-driven integrated health in populations. 2018 , 4, e1701088	54
1236	Mutual Information between Reflected and Transmitted Speckle Images. 2018 , 120, 073901	9
1235	Optimization of rainfall networks using information entropy and temporal variability analysis. 2018 , 559, 136-155	22
1234	An Instrumental Intelligibility Metric Based on Information Theory. 2018 , 25, 115-119	17
1233	Hydrogen-Bonded Network and Water Dynamics in the D-channel of Cytochrome c Oxidase. 2018 , 251, 299-314	10
1232	Non-normalized version of the Direct Inversion in the Spectral Subspace method. A new formulation of the method without Lagrangian. 2018 , 173, 65-72	
1231	Dynamic mutual information similarity based transient process identification and fault detection. 2018 , 96, 1541-1558	15
1230	Relevant and independent multi-block approach for plant-wide process and quality-related monitoring based on KPCA and SVDD. 2018 , 73, 257-267	27
1229	A Novel Multi-Class EEG-Based Sleep Stage Classification System. 2018 , 26, 84-95	99
1228	Do planets remember how they formed?. 2018 , 473, 784-795	14
1227	Generation of compound features based on feature interaction for classification. 2018 , 108, 61-73	6
1226	Clickstream Analysis for Crowd-Based Object Segmentation with Confidence. 2018 , 40, 2814-2826	9
1225	Ground-source heat pump systems: The effect of variable pipe separation in ground heat exchangers. 2018 , 100, 97-109	21
1224	Predicting the thermodynamic stability of perovskite oxides using machine learning models. 2018 , 150, 454-463	95
1223	Geometric k-nearest neighbor estimation of entropy and mutual information. 2018 , 28, 033114	11

1222	Information-theoretic decomposition of embodied and situated systems. 2018 , 103, 94-107		2
1221	Causal inference for multivariate stochastic process prediction. 2018 , 448-449, 134-148		3
1220	Motor Task Detection From Human STN Using Interhemispheric Connectivity. 2018 , 26, 216-223		3
1219	Information-Theoretic Bounds and Approximations in Neural Population Coding. 2018 , 30, 885-944		7
1218	Demystifying Fixed \mathbb{K} -Nearest Neighbor Information Estimators. 2018 , 64, 5629-5661		29
1217	An empirical study of the maximal and total information coefficients and leading measures of dependence. 2018 , 12,		16
1216	Information-theoretic model selection for optimal prediction of stochastic dynamical systems from data. <i>Physical Review E</i> , 2018 , 97, 032206	2.4	5
1215	EEG feature descriptors and discriminant analysis under Riemannian Manifold perspective. 2018 , 275, 1871-1883		16
1214	EFS-MI: an ensemble feature selection method for classification. 2018 , 4, 105-118		43
1213	Reconstruction of coupling architecture of neural field networks from vector time series. 2018 , 57, 342-351		8
1212	Functional associations at global brain level during perception of an auditory illusion by applying maximal information coefficient. 2018 , 491, 708-715		6
1211	Coordinate invariance as a fundamental constraint on the form of stimulus-specific information measures. 2018 , 112, 13-23		2
1210	An improved semantic schema modeling for genetic programming. 2018 , 22, 3237-3260		3
1209	Semantic schema modeling for genetic programming using clustering of building blocks. 2018 , 48, 1442-1460		3
1208	Application and benchmarking of multi-objective evolutionary algorithms on high-dose-rate brachytherapy planning for prostate cancer treatment. 2018 , 40, 37-52		24
1207	Deep learning for chemical reaction prediction. 2018 , 3, 442-452		92
1206	Univariate and multivariate conditional entropy measures for the characterization of short-term cardiovascular complexity under physiological stress. 2018 , 39, 014002		20
1205	Automatically evolving difficult benchmark feature selection datasets with genetic programming. 2018 ,		2

1204	Determination of Credit Decision Attributes Using Maximal Information Coefficient. 2018,	
1203	Information Theoretic Causality Measures for System Identification of Mechanical Systems. 2018, 13,	2
1202	Predicting Facial Biotypes Using Continuous Bayesian Network Classifiers. 2018, 2018, 1-14	3
1201	Fabrication and Characterization of 3D Multi-Electrode Array on Flexible Substrate for EMG Recording from Expiratory Muscle of Songbird. 2018, 2018, 29.4.1-29.4.4	1
1200	. 2018,	
1199	Causal analysis of self-sustaining processes in the logarithmic layer of wall-bounded turbulence. 2018, 1001, 012013	2
1198	Understanding Compressive Adversarial Privacy. 2018,	2
1197	HASS: High Accuracy Spike Sorting with Wavelet Package Decomposition and Mutual Information. 2018,	2
1196	Cohesion, order and information flow in the collective motion of mixed-species shoals. 2018, 5, 181132	29
1195	SURI: Feature Selection Based on Unique Relevant Information for Health Data. 2018,	2
1194	Sequence alignment with the hilbert-schmidt independence criterion. 2018,	0
1193	Evaluation and Calibration of an Agent Based Land use Model Using Remotely Sensed Land Cover and Primary Productivity Data. 2018,	1
1192	A Tutorial for Information Theory in Neuroscience. 2018, 5,	72
1191	Nonparametric Direct Entropy Difference Estimation. 2018,	
1190	Feature-Selection based PMU Placement for Detection of Faults in Power Grids. 2018,	3
1189	Evaluation of Information-Theoretic Measures in Echo State Networks on the Edge of Stability. 2018,	1
1188	An Empirical Upper Bound on Secrecy Capacity of Multipath Fading Channels. 2018,	
1187	A Framework for Crowd-Based Causal Analysis of Open Data. 2018,	0

1186	Non-parametric Estimation of Mutual Information with Application to Nonlinear Optical Fibers. 2018,	1
1185	Effect of Neuromodulation of Short-term Plasticity on Information Processing in Hippocampal Interneuron Synapses. 2018, 8, 7	1
1184	Analysis of KNN Information Estimators for Smooth Distributions. 2018,	2
1183	Prioritizing Congenital Heart Disease Genes from Transcriptome and Interactome via PageRank. 2018,	1
1182	Information transfer in QT-RR dynamics: Application to QT-correction. 2018, 8, 14992	3
1181	Exploring Dynamics and Noise in Gonadotropin-Releasing Hormone (GnRH) Signaling. 2018, 1819, 405-429	3
1180	Common solar wind drivers behind magnetic storm-magnetospheric substorm dependency. 2018, 8, 16987	16
1179	New perspectives in the study of the Earth's magnetic field and climate connection: The use of transfer entropy. 2018, 13, e0207270	13
1178	Automated System for Epileptic EEG Detection Using Iterative Filtering. 2018, 2, 1-4	49
1177	Elevated atmospheric CO promoted speciation in mosquitoes (Diptera, Culicidae). 2018, 1, 182	6
1176	Information estimation using nonparametric copulas. <i>Physical Review E</i> , 2018, 98,	2.4 11
1175	Predicting Microsleep States Using EEG Inter-Channel Relationships. 2018, 26, 2260-2269	13
1174	A Maximum-Entropy Method to Estimate Discrete Distributions from Samples Ensuring Nonzero Probabilities. 2018, 20,	6
1173	Data Driven Predictive Maintenance of Distribution Transformers. 2018,	3
1172	Active degradation of MarA controls coordination of its downstream targets. 2018, 14, e1006634	7
1171	Doing the Impossible: Why Neural Networks Can Be Trained at All. 2018, 9, 1185	6
1170	Neural Network Renormalization Group. 2018, 121, 260601	46
1169	Minimising the Kullback-Leibler Divergence for Model Selection in Distributed Nonlinear Systems. 2018, 20,	15

1168	Identifying Devices of the Internet of Things Using Machine Learning on Clock Characteristics. 2018 , 417-427	7
1167	Quality-Related Locally Weighted Non-Gaussian Regression Based Soft Sensing for Multimode Processes. 2018 , 57, 17452-17461	11
1166	. 2018 ,	2
1165	An Examination of Thermal Features Relevance in the Task of Battery-Fault Detection. 2018 , 8, 182	8
1164	Online Process Monitoring Using Recursive Mutual Information-Based Variable Selection and Dissimilarity Analysis With No Prior Information. 2018 , 6, 58662-58672	4
1163	Effect of pulsed transcranial ultrasound stimulation at different number of tone-burst on cortico-muscular coupling. 2018 , 19, 60	6
1162	A Robust Predicted Performance Analysis Approach for Data-Driven Product Development in the Industrial Internet of Things. 2018 , 18,	7
1161	Multiclass classification for skin cancer profiling based on the integration of heterogeneous gene expression series. 2018 , 13, e0196836	11
1160	Information Perspective to Probabilistic Modeling: Boltzmann Machines versus Born Machines. 2018 , 20,	35
1159	Abnormal Heart Sound Diagnosis Based on Phonocardiogram Signal Processing. 2018 ,	3
1158	Work relations with measurement and feedback control on nonuniform temperature systems. <i>Physical Review E</i> , 2018 , 98,	2.4 5
1157	Detection of coronary artery disease by reduced features and extreme learning machine. 2018 , 91, 166-175	8
1156	Encoding of locomotion kinematics in the mouse cerebellum. 2018 , 13, e0203900	16
1155	Jackknife approach to the estimation of mutual information. 2018 , 115, 9956-9961	10
1154	Hardware Design of Real Time Epileptic Seizure Detection Based on STFT and SVM. 2018 , 6, 67277-67290	20
1153	Characterizing Driver Stress Using Physiological and Operational Data from Real-World Electric Vehicle Driving Experiment. 2018 , 19, 895-906	11
1152	Mutual information analysis to approach nonlinearity in groundwater stochastic fields. 2018 , 32, 2933-2942	4
1151	Nonlinearity in stock networks. 2018 , 28, 083127	11

1150	Multi Objective Optimization in Charge Management of Micro Grid Based Multistory Carpark. 2018 , 11, 1791		1
1149	Improved lower bound for the mutual information between signal and neural spike count. 2018 , 112, 523-538		6
1148	Causal inference in nonlinear systems: Granger causality versus time-delayed mutual information. <i>Physical Review E</i> , 2018 , 97, 052216	2.4	16
1147	Classification of single-channel EEG signals for epileptic seizures detection based on hybrid features. 2018 , 26, 337-346		17
1146	Detecting pathway biomarkers of diabetic progression with differential entropy. 2018 , 82, 143-153		13
1145	The mutual information based minimum spanning tree to detect and evaluate dependencies between aero-engine gas path system variables. 2018 , 506, 248-253		5
1144	Feature Selection Based on the Neighborhood Entropy. 2018 , 29, 6313-6322		16
1143	Energetics and conformational pathways of functional rotation in the multidrug transporter AcrB. 2018 , 7,		26
1142	A Machine Learning Approach to the Detection of Pilot's Reaction to Unexpected Events Based on EEG Signals. 2018 , 2018, 2703513		9
1141	Development of stock correlation networks using mutual information and financial big data. 2018 , 13, e0195941		27
1140	Coupling between mean blood pressure and EEG in preterm neonates is associated with reduced illness severity scores. 2018 , 13, e0199587		3
1139	Apparent remote synchronization of amplitudes: A demodulation and interference effect. 2018 , 28, 063124		7
1138	An Evaluation of Intrusive Instrumental Intelligibility Metrics. 2018 , 26, 2153-2166		22
1137	The Verriest Lecture: Color vision in an uncertain world. 2018 , 35, B192-B201		7
1136	Inform: Efficient Information-Theoretic Analysis of Collective Behaviors. 2018 , 5, 60		14
1135	SozRank: A new approach for localizing the epileptic seizure onset zone. 2018 , 14, e1005953		15
1134	Causal network reconstruction from time series: From theoretical assumptions to practical estimation. 2018 , 28, 075310		112
1133	Aesthetic Highlight Detection in Movies Based on Synchronization of Spectators' Reactions. 2018 , 14, 1-23		6

1132	Smoothness Bias in Relevance Estimators for Feature Selection in Regression. 2018 , 285-294	
1131	Joint Source-Channel Coding with Neural Networks for Analog Data Compression and Storage. 2018 ,	8
1130	A Crowdsensing Based Analytical Framework for Perceptual Degradation of OTT Web Browsing. 2018 , 18,	1
1129	Detecting causality using symmetry transformations. 2018 , 28, 075305	5
1128	MMSFL-OWFB: A novel class of orthogonal wavelet filters for epileptic seizure detection. 2018 , 160, 265-277	58
1127	Singular value decomposition for the correlation of atomic fluctuations with arbitrary angle. 2018 , 86, 1075-1087	5
1126	Symmetric rank covariances: a generalized framework for nonparametric measures of dependence. 2018 , 105, 547-562	14
1125	Wind power prediction with missing data using Gaussian process regression and multiple imputation. 2018 , 71, 905-916	46
1124	Brownian Forgery of Statistical Dependences. 2018 , 4,	
1123	Time-delayed Network Reconstruction based on Nonlinear Continuous Dynamical Systems. 2018 ,	1
1122	Detecting manifold dependences of multivariate data with total correlation. 2018 , 22, 467-489	1
1121	. 2018 , 64, 3313-3330	2
1120	Robust Period Estimation Using Mutual Information for Multiband Light Curves in the Synoptic Survey Era. 2018 , 236, 12	18
1119	Information Entropy Suggests Stronger Nonlinear Associations between Hydro-Meteorological Variables and ENSO. 2018 , 20,	7
1118	Inter-scale information flow as a surrogate for downward causation that maintains spiral waves. 2018 , 28, 075306	8
1117	Introduction to Focus Issue: Causation inference and information flow in dynamical systems: Theory and applications. 2018 , 28, 075201	12
1116	Causality from palaeontological time series. 2018 , 61, 495-509	17
1115	Encoding Growth Factor Identity in the Temporal Dynamics of FOXO3 under the Combinatorial Control of ERK and AKT Kinases. 2018 , 6, 664-678.e9	28

1114	Buses of Cuernavacañn agent-based model for universal random matrix behavior minimizing mutual information. 2018 , 51, 265101		1
1113	Development of Stock Correlation Network Models Using Maximum Likelihood Method and Stock Big Data. 2018 ,		2
1112	Classification of rare land cover types: Distinguishing annual and perennial crops in an agricultural catchment in South Korea. 2018 , 13, e0190476		12
1111	Inference of financial networks using the normalised mutual information rate. 2018 , 13, e0192160		2
1110	Analysing the importance of variables for sewer failure prediction. 2018 , 15, 338-345		5
1109	Low-Complexity Privacy-Preserving Compressive Analysis Using Subspace-Based Dictionary for ECG Telemonitoring System. 2018 , 12, 801-811		22
1108	Bias Reduction and Metric Learning for Nearest-Neighbor Estimation of Kullback-Leibler Divergence. 2018 , 30, 1930-1960		9
1107	Non-Gaussian Methods for Causal Structure Learning. 2019 , 20, 431-441		4
1106	Approximate computational approaches for Bayesian sensor placement in high dimensions. 2019 , 46, 193-205		3
1105	Cross-Frequency Transfer Entropy Characterize Coupling of Interacting Nonlinear Oscillators in Complex Systems. 2019 , 66, 521-529		13
1104	Mutual information does not detect growing correlations in the propensity of a model molecular liquid. 2019 , 15, 6784-6790		1
1103	Statistical estimation of conditional Shannon entropy. 2019 , 23, 350-386		5
1102	Estimation of mutual information for real-valued data with error bars and controlled bias. <i>Physical Review E</i> , 2019 , 100, 022404	2.4	6
1101	Monthly Streamflow Simulation for the Headwater Catchment of the Yellow River Basin With a Hybrid Statistical-Dynamical Model. 2019 , 55, 7606-7621		13
1100	Information content analysis reveals desirable aspects of in vivo experiments of a synthetic circuit. 2019 ,		1
1099	Persistent random motion with maximally correlated fluctuations. <i>Physical Review E</i> , 2019 , 100, 022119	2.4	0
1098	Mutual Information and Delay Embeddings in Polysomnography Studies. 2019 ,		0
1097	Deep Dictionary Learning: A PARametric NETwork Approach. 2019 ,		23

1096	A new incipient fault monitoring method based on modified principal component analysis. 2019 , 33, e3175	2
1095	Automated Hyperspectral Image Classification Using Spatial-Spectral Features. 2019 ,	
1094	A Mutual InformationBased Experimental Design Framework to Use High-Fidelity Nuclear Reactor Codes to Calibrate Low-Fidelity Codes. 2019 , 205, 1685-1696	0
1093	Feature Selection for Mutlti-labeled Variables via Dependency Maximization. 2019 ,	1
1092	Distributed process monitoring framework based on decomposed modified partial least squares. 2019 , 97, 3087-3100	3
1091	Surrogate-Based Robust Design for a Non-Smooth Radiation Source Detection Problem. 2019 , 12, 113	1
1090	Context Based Predictive Information. 2019 , 21,	
1089	Assessing continuous sensory information encoding capacity by a biomimetic dynamic sonar emitter. 2019 , 14, 056003	1
1088	Information-theoretic analysis of multivariate single-cell signaling responses. 2019 , 15, e1007132	20
1087	Causality and Bayesian Network PDEs for multiscale representations of porous media. 2019 , 394, 658-678	8
1086	Estimating the Mutual Information between Two Discrete, Asymmetric Variables with Limited Samples. 2019 , 21,	3
1085	Predicting the onset temperature (T _g) of GexSe1-x glass transition: a feature selection based two-stage support vector regression method. 2019 , 64, 1195-1203	30
1084	Key Generation Based on Large Scale Fading. 2019 , 68, 8222-8226	2
1083	An information network flow approach for measuring functional connectivity and predicting behavior. 2019 , 9, e01346	8
1082	Sequential optimal positioning of mobile sensors using mutual information. 2019 , 12, 465-478	2
1081	Probing High-Order Dependencies With Information Theory. 2019 , 67, 3796-3805	3
1080	Improving IoT Predictions through the Identification of Graphical Features. 2019 , 19,	2
1079	Empirical Estimation of Information Measures: A Literature Guide. 2019 , 21,	14

1078	Incipient Fault Detection Based on Exergy Efficiency and Support Vector Data Description. 2019 , 52, 562-569	
1077	Methods for analysis of brain connectivity: An IFCN-sponsored review. 2019 , 130, 1833-1858	54
1076	Data-driven crack assessment based on surface measurements. 2019 , 218, 106552	
1075	An information-theoretic approach to extracting climate signals from deep polar ice cores. 2019 , 29, 101105	3
1074	Approximations of Shannon Mutual Information for Discrete Variables with Applications to Neural Population Coding. 2019 , 21,	1
1073	Leveraging Routine Behavior and Contextually-Filtered Features for Depression Detection among College Students. 2019 , 3, 1-33	19
1072	Mutual Information Estimation: Independence Detection and Consistency. 2019 ,	0
1071	Distributed Selection of Continuous Features in Multilabel Classification Using Mutual Information. 2020 , 31, 2280-2293	9
1070	Intelligent Neural Network Schemes for Multi-Class Classification. 2019 , 9, 4036	1
1069	Analysis of Multicomponent Ionic Mixtures Using Blind Source Separation: A Processing Case Study. 2019 , 58, 22640-22651	4
1068	Information-based centralization of locomotion in animals and robots. 2019 , 10, 3655	3
1067	Information dynamics with confidence: Using reservoir computing to construct confidence intervals for information-dynamic measures. 2019 , 29, 083113	2
1066	Scaling Multi-Armed Bandit Algorithms. 2019 ,	3
1065	Persistent homology of complex networks for dynamic state detection. <i>Physical Review E</i> , 2019 , 100, 022314	2.4 23
1064	Detecting Cluster Synchronization in Chaotic Dynamic Networks via Information Theoretic Measures. 2019 ,	
1063	Deep Learning for Channel Coding via Neural Mutual Information Estimation. 2019 ,	15
1062	Scalable Mutual Information Estimation Using Dependence Graphs. 2019 ,	8
1061	Mutual information based stock networks and portfolio selection for intraday traders using high frequency data: An Indian market case study. 2019 , 14, e0221910	5

1060	A New Technique Based on Voronoi Tessellation to Assess the Space-Dependence of Categorical Variables. 2019 , 21,	1
1059	Monte Carlo Dependency Estimation. 2019 ,	2
1058	Estimating information in time-varying signals. 2019 , 15, e1007290	8
1057	Theta Oscillations Alternate With High Amplitude Neocortical Population Within Synchronized States. 2019 , 13, 316	3
1056	Mutual Influence-aware Runtime Learning of Self-adaptation Behavior. 2019 , 14, 1-37	5
1055	Machine learning methods for estimation the indicators of phosphogypsum influence in soil. 2019 , 19, 2265-2276	5
1054	BET on Independence. 2019 , 114, 1620-1637	9
1053	Estimating the Memory Order of Electrocorticography Recordings. 2019 , 66, 2809-2822	0
1052	Network Time Series Analysis Using Transfer Entropy. 2019 , 194-203	2
1051	Nonparametric independence testing via mutual information. 2019 , 106, 547-566	22
1050	A Topic-Agnostic Approach for Identifying Fake News Pages. 2019 ,	16
1049	Speed-mediated properties of schooling. 2019 , 6, 181482	11
1048	Complex Network Analysis of Photovoltaic Plant Operations and Failure Modes. 2019 , 12, 1995	5
1047	Structural network inference from time-series data using a generative model and transfer entropy. 2019 , 125, 357-363	4
1046	Application of Graph Theory for Identifying Connectivity Patterns in Human Brain Networks: A Systematic Review. 2019 , 13, 585	150
1045	About Filter Criteria for Feature Selection in Regression. 2019 , 579-590	2
1044	Holographic entanglement of purification for thermofield double states and thermal quench. 2019 , 2019, 1	37
1043	Automatic rain and cicada chorus filtering of bird acoustic data. 2019 , 81, 105501	12

1042	Scour at bridge piers in uniform and armored beds under steady and unsteady flow conditions using ANN-APSO and ANN-GA algorithms. 2019 , 1-9	5
1041	Applying Multi-Layer Artificial Neural Network and Mutual Information to the Prediction of Trends in Dissolved Oxygen. 2019 , 7,	19
1040	Understanding autoencoders with information theoretic concepts. 2019 , 117, 104-123	46
1039	mirTime: Identifying Condition-Specific Targets of MicroRNA in Time-series Transcript Data using Gaussian Process Model and Spherical Vector Clustering. 2019 ,	4
1038	A Machine Learning Tool for Interpreting Differences in Cognition Using Brain Features. 2019 , 475-486	1
1037	Further insights on the relationship between SP500, VIX and volume: a new asymmetric causality test1View all notes. 2019 , 25, 1402-1419	7
1036	Transfer entropy computation using the Perron-Frobenius operator. <i>Physical Review E</i> , 2019 , 99, 042212.4	2
1035	. 2019 ,	8
1034	Quantifying Information Conveyed by Large Neuronal Populations. 2019 , 31, 1015-1047	3
1033	Large-scale directed network inference with multivariate transfer entropy and hierarchical statistical testing. 2019 , 3, 827-847	31
1032	Likelihood non-Gaussianity in large-scale structure analyses. 2019 , 485, 2956-2969	8
1031	Smallholder maize area and yield mapping at national scales with Google Earth Engine. 2019 , 228, 115-128	133
1030	INFORMATION-THEORETIC ANALYSIS OF STOCHASTIC VOLATILITY MODELS. 2019 , 22, 1850025	
1029	Empirical Bounds on the Rate of Secret Bits Extracted from Received Signal Strength. 2019 ,	
1028	Nonlinear dependencies on Brazilian equity network from mutual information minimum spanning trees. 2019 , 523, 876-885	4
1027	Behind the cues: A benchmarking study for fake news detection. 2019 , 128, 201-213	61
1026	Double Layer Distributed Process Monitoring Based on Hierarchical Multi-Block Decomposition. 2019 , 7, 17337-17346	5
1025	Dependency of the Cancer-Specific Transcriptional Regulation Circuitry on the Promoter DNA Methylome. 2019 , 26, 3461-3474.e5	11

1024	Investigation of Feature Selection Techniques on Performance of Automatic Text Categorization. 2019 , 71-82	0
1023	Limits to the rate of information transmission through the MAPK pathway. 2019 , 16, 20180792	6
1022	Water Network Dynamics Next to the Oxygen-Evolving Complex of Photosystem II. 2019 , 7, 39	11
1021	Simple Stopping Criteria for Information Theoretic Feature Selection. 2019 , 21,	5
1020	K-th Nearest Neighbor (KNN) Entropy Estimates of Complexity and Integration from Ongoing and Stimulus-Evoked Electroencephalographic (EEG) Recordings of the Human Brain. 2019 , 21,	4
1019	Conformity in the collective: differences in hunger affect individual and group behavior in a shoaling fish. 2019 , 30, 968-974	9
1018	WMSorting: Wavelet Packets Decomposition and Mutual Information Based Spike Sorting Method. 2019 ,	5
1017	Machine learning models for early sepsis recognition in the neonatal intensive care unit using readily available electronic health record data. 2019 , 14, e0212665	51
1016	Copula index for detecting dependence and monotonicity between stochastic signals. 2019 , 485, 18-41	5
1015	Extracting Interactions between Flying Bat Pairs Using Model-Free Methods. 2019 , 21,	5
1014	Dynamic hand gesture recognition using motion pattern and shape descriptors. 2019 , 78, 10649-10672	5
1013	Quantification of Information Exchange in Idealized and Climate System Applications. 2019 , 21, 1094	2
1012	A New Feature Selection Method for Intrusion Detection. 2019 ,	
1011	Optimality of the Plug-in Estimator for Differential Entropy Estimation under Gaussian Convolutions. 2019 ,	2
1010	Personalized PageRank Based Feature Selection for High-dimension Data. 2019 ,	1
1009	Lossless Compression of Time Series Data with Generalized Deduplication. 2019 ,	9
1008	Improved Topology Identification Algorithm of Distribution Network Mutual Information. 2019 ,	1
1007	Detecting Causality in Multivariate Time Series via Non-Uniform Embedding. 2019 , 21, 1233	16

1006	Thermal Power Plant Process Monitoring using Mutual Information and Distributed Statistical Model. 2019,	
1005	Geometric Estimation of Multivariate Dependency. 2019, 21,	1
1004	Estimating Kullback-Leibler Divergence Using Kernel Machines. 2019,	3
1003	Feature Selection via Mutual Information: New Theoretical Insights. 2019,	11
1002	Early Prediction of Vital Signs Using Generative Boosting via LSTM Networks. 2019,	3
1001	K-Nearest Neighbors Hashing. 2019,	10
1000	Entropy and mutual information in models of deep neural networks. 2019, 2019, 124014	11
999	A Filtering Method for Classification of Motor-Imagery EEG Signals for Brain-Computer Interface. 2019,	
998	End-to-end correlated subgap states in hybrid nanowires. 2019, 100,	20
997	Comparison of methods for the assessment of nonlinearity in short-term heart rate variability under different physiopathological states. 2019, 29, 123114	22
996	Precise timing is ubiquitous, consistent, and coordinated across a comprehensive, spike-resolved flight motor program. 2019,	8
995	On the information bottleneck theory of deep learning. 2019, 2019, 124020	58
994	Cross-Channel Phase-Amplitude Transfer Entropy Conceptualize Long-Range Transmission in sleep: a case study. 2019, 2019, 4048-4051	0
993	Molecular Dynamics Properties without the Full Trajectory: A Denoising Autoencoder Network for Properties of Simple Liquids. 2019, 10, 7568-7576	9
992	Vibrational scaling of the heterogeneous dynamics detected by mutual information. 2019, 42, 146	0
991	Detecting and quantifying causal associations in large nonlinear time series datasets. 2019, 5, eaau4996	128
990	. 2019,	0
989	Mutual Information on Tensors for Measuring the Nonlinear Correlations in Network Security. 2019,	

988	Inferring causal relationship in coordinated flight of pigeon flocks. 2019 , 29, 113118		19
987	Effect of visual and auditory sensing cues on collective behavior in Vicsek models. <i>Physical Review E</i> , 2019 , 100, 062415	2.4	1
986	. 2019 , 1-10		2
985	. 2019 , 7, 174793-174821		8
984	A Data-Driven Measure of Effective Connectivity Based on Renyi's \mathbb{H} Entropy. 2019 , 13, 1277		6
983	Using Information Flow for Whole System Understanding From Component Dynamics. 2019 , 55, 8305-8329		4
982	Multiplexing of Information about Self and Others in Hippocampal Ensembles. 2019 , 29, 3859-3871.e6		0
981	An Improved Normalized Mutual Information Variable Selection Algorithm for Neural Network-Based Soft Sensors. 2019 , 19,		6
980	Information Theory for Non-Stationary Processes with Stationary Increments. 2019 , 21, 1223		5
979	Learnability for the Information Bottleneck. 2019 , 21, 924		5
978	Mutual Information Input Selector and Probabilistic Machine Learning Utilisation for Air Pollution Proxies. 2019 , 9, 4475		16
977	Detecting direct associations in a network by information theoretic approaches. 2019 , 62, 823-838		8
976	Statistical Estimation of the Shannon Entropy. 2019 , 35, 17-46		15
975	Information transfer from causal history in complex system dynamics. <i>Physical Review E</i> , 2019 , 99, 012306	2.4	7
974	Calculating the Mutual Information between Two Spike Trains. 2019 , 31, 330-343		5
973	Measuring Integrated Information: Comparison of Candidate Measures in Theory and Simulation. 2018 , 21,		38
972	Applying Bayesian Network Approach to Determine the Association Between Morphological Features Extracted from Prostate Cancer Images. 2019 , 7, 1586-1601		10
971	UbiSitePred: A novel method for improving the accuracy of ubiquitination sites prediction by using LASSO to select the optimal Chou's pseudo components. 2019 , 184, 28-43		44

970	A Framework for Privacy Quantification: Measuring the Impact of Privacy Techniques Through Mutual Information, Distance Mapping, and Machine Learning. 2019 , 11, 241-261	0
969	Bayesian analysis of the impact of rainfall data product on simulated slope failure for North Carolina locations. 2019 , 23, 495-522	8
968	An application of phonocardiography signals for psychological stress detection using non-linear entropy based features in empirical mode decomposition domain. 2019 , 77, 24-33	16
967	An efficient detection of congestive heart failure using frequency localized filter banks for the diagnosis with ECG signals. 2019 , 55, 82-94	31
966	Accurate automated detection of congestive heart failure using eigenvalue decomposition based features extracted from HRV signals. 2019 , 39, 312-327	23
965	A Novel Combined Data-Driven Approach for Electricity Theft Detection. 2019 , 15, 1809-1819	83
964	Evaluating performance of neural codes in model neural communication networks. 2019 , 109, 90-102	6
963	Measuring transient phase-amplitude coupling using local mutual information. 2019 , 185, 361-378	20
962	Separating normosmic and anosmic patients based on entropy evaluation of olfactory event-related potentials. 2019 , 1708, 78-83	9
961	The Brain Network in a Model of Thalamocortical Dysrhythmia. 2019 , 9, 273-284	10
960	Quantifying Seismicity Parameter Uncertainties and Their Effects on Probabilistic Seismic Hazard Analysis: A Case Study of Iran. 2019 , 176, 1487-1502	7
959	Comparison of three methodologies for optimization of the layout of in-core detectors with a specific number of detectors. 2019 , 126, 359-366	5
958	Satellite mapping of tillage practices in the North Central US region from 2005 to 2016. 2019 , 221, 417-429	24
957	Fisher Exact Scanning for Dependency. 2019 , 114, 245-258	5
956	Systems Bioinformatics: increasing precision of computational diagnostics and therapeutics through network-based approaches. 2019 , 20, 806-824	47
955	Nonuniform State Space Reconstruction for Multivariate Chaotic Time Series. 2019 , 49, 1885-1895	27
954	Utilizing Mutual Information Analysis to Explore the Relationship Between Gray and White Matter Structural Pathologies in Schizophrenia. 2019 , 45, 386-395	5
953	Hinted Star Coordinates for Mixed Data. 2020 , 39, 117-133	

952	DisConICA: a Software Package for Assessing Reproducibility of Brain Networks and their Discriminability across Disorders. 2020 , 18, 87-107	2
951	One Core Task of Interpretability in Machine Learning Γ Expansion of Structural Equation Modeling. 2020 , 34, 2051001	
950	Non-parametric estimation of copula based mutual information. 2020 , 49, 1513-1527	2
949	Improving the Accuracy and Hardware Efficiency of Neural Networks Using Approximate Multipliers. 2020 , 28, 317-328	34
948	The big data analysis of rail equipment accidents based on the maximal information coefficient. 2020 , 12, 959-976	3
947	Network control principles for identifying personalized driver genes in cancer. 2020 , 21, 1641-1662	4
946	Fault detection and identification combining process measurements and statistical alarms. 2020 , 94, 104195	13
945	Machine learning for automatic assignment of the severity of cybersecurity events. 2020 , 2, e1072	4
944	Characterization of information processing in the subthalamic area of Parkinson's patients. 2020 , 209, 116518	2
943	Classification of intracavitary electrograms in atrial fibrillation using information and complexity measures. 2020 , 57, 101753	2
942	How entropic regression beats the outliers problem in nonlinear system identification. 2020 , 30, 013107	17
941	Discovery of modules involved in the biosynthesis and regulation of maize phenolic compounds. 2020 , 291, 110364	4
940	Computing Spatially Resolved Rotational Hydration Entropies from Atomistic Simulations. 2020 , 16, 108-118	8
939	Variational approach for privacy funnel optimization on continuous data. 2020 , 137, 17-25	1
938	Deep relevant representation learning for soft sensing. 2020 , 514, 263-274	17
937	Pypreclin: An automatic pipeline for macaque functional MRI preprocessing. 2020 , 207, 116353	8
936	ELMO: An Efficient Logistic Regression-Based Multi-Omic Integrated Analysis Method for Breast Cancer Intrinsic Subtypes. 2020 , 8, 5121-5130	2
935	Dimensionality Reduction and Feature Selection for Object-Based Land Cover Classification based on Sentinel-1 and Sentinel-2 Time Series Using Google Earth Engine. 2020 , 12, 76	42

934	Learning Whole-Body Human-Robot Haptic Interaction in Social Contexts. 2020 ,	0
933	Composition Classification of Ultra-High Energy Cosmic Rays. 2020 , 22,	2
932	Exploring Hydrologic Model Process Connectivity at the Continental Scale Through an Information Theory Approach. 2020 , 56, e2020WR027340	4
931	Deciphering High-Order Structural Correlations within Fluxional Molecules from Classical and Quantum Configurational Entropy. 2020 , 16, 6785-6794	2
930	Epileptic EEG information entropy based on different entropy estimation methods. 2020 , 1592, 012039	
929	A Consistent Nonparametric Test for Granger Non-Causality Based on the Transfer Entropy. 2020 , 22,	2
928	NIMCE: a gene regulatory network inference approach based on multi time delays causal entropy. 2020 , PP,	0
927	Generalized correlation-based dynamical network analysis: a new high-performance approach for identifying allosteric communications in molecular dynamics trajectories. 2020 , 153, 134104	21
926	3D EXIT Charts for Analyzing the 5G 3GPP New Radio LDPC Decoder. 2020 , 8, 188797-188812	2
925	ABCModeller: an automatic data mining tool based on a consistent voting method with a user-friendly graphical interface. 2021 , 22,	1
924	A hybrid load forecasting model based on support vector machine with intelligent methods for feature selection and parameter optimization. 2020 , 279, 115332	26
923	Controlling the outcome of S2 reactions in ionic liquids: from rational data set design to predictive linear regression models. 2020 , 22, 23009-23018	5
922	Cell type-specific genome scans of DNA methylation divergence indicate an important role for transposable elements. 2020 , 21, 172	2
921	Nonlinear relative dynamics. 2020 , 26, 1301-1314	
920	Motion correction and noise removing in lung diffusion-weighted MRI using low-rank decomposition. 2020 , 58, 2095-2105	0
919	COVID-19 detection in radiological text reports integrating entity recognition. 2020 , 127, 104066	9
918	Secrecy enhancing for space shift keying-based communication systems. 2020 , 15, 1702-1704	4
917	An Information Theoretic Learning for Causal Direction Identification. 2020 ,	0

916	Quantifying interactions among car drivers using information theory. 2020 , 30, 113125	3
915	Causal interaction modeling on ultra-processed food manufacturing. 2020 ,	1
914	What Can Local Transfer Entropy Tell Us about Phase-Amplitude Coupling in Electrophysiological Signals?. 2020 , 22,	4
913	A framework of hybrid model development with identification of plant-model mismatch. 2020 , 66, e16996	13
912	Family-Specific Gains and Losses of Protein Domains in the Legume and Grass Plant Families. 2020 , 16, 1176934320939943	2
911	A Novel Just-in-Time Learning Strategy for Soft Sensing with Improved Similarity Measure Based on Mutual Information and PLS. 2020 , 20,	5
910	Image-Based Methods to Investigate Synchronization between Time Series Relevant for Plasma Fusion Diagnostics. 2020 , 22,	0
909	Non-Uniform Embedding Scheme and Low-Dimensional Approximation Methods for Causality Detection. 2020 , 22,	1
908	MRI radiomics for the prediction of recurrence in patients with clinically non-functioning pituitary macroadenomas. 2020 , 124, 103966	14
907	Bayesian Information-Theoretic Calibration of Radiotherapy Sensitivity Parameters for Informing Effective Scanning Protocols in Cancer. 2020 , 9,	0
906	Estimating Conditional Transfer Entropy in Time Series Using Mutual Information and Nonlinear Prediction. 2020 , 22,	4
905	Precise measurement of correlations between frequency coupling and visual task performance. 2020 , 10, 17372	2
904	The extended Granger causality analysis for Hodgkin-Huxley neuronal models. 2020 , 30, 103102	1
903	Incremental Learning of Latent Forests. 2020 , 8, 224420-224432	0
902	Motor strength classification with machine learning approaches applied to anatomical neuroimages. 2020 ,	1
901	Neural Mutual Information Estimation for Channel Coding: State-of-the-Art Estimators, Analysis, and Performance Comparison. 2020 ,	6
900	Trading Imbalance in Chinese Stock Market-A High-Frequency View. 2020 , 22,	1
899	Entropy-Based Detection of Complexity and Nonlinearity in Short-Term Heart Period Variability under different Physiopathological States. 2020 ,	0

898	Acoustic Fingerprints for Access Management in Ad-Hoc Sensor Networks. 2020 , 8, 166083-166094	0
897	Sample-Efficient Robot Motion Learning using Gaussian Process Latent Variable Models. 2020 ,	3
896	A Refinement of Recurrence Analysis to Determine the Time Delay of Causality in Presence of External Perturbations. 2020 , 22,	2
895	Entropy and the Brain: An Overview. 2020 , 22,	17
894	The Estimation of the Influence of Household Appliances on the Power Quality in a Microgrid System. 2020 , 13, 4323	6
893	UV Spectroscopic Determination of Aloin in Aloe vera (A. vera) Samples Based on Chemometric Data Processing. 2020 , 75, 1137-1142	1
892	Finding the neural correlates of collaboration using a three-person fMRI hyperscanning paradigm. 2020 , 117, 23066-23072	9
891	Propofol Affects Cortico-Hippocampal Interactions via β Subunit-Containing GABA Receptors. 2020 , 21,	1
890	A Randomly Accessible Lossless Compression Scheme for Time-Series Data. 2020 ,	8
889	A Feature Selection Method using PSO-MI. 2020 ,	0
888	Exploring Unique Relevance for Mutual Information based Feature Selection. 2020 ,	
887	Demystifying Deep Learning in Predictive Spatiotemporal Analytics: An Information-Theoretic Framework. 2021 , 32, 3538-3552	1
886	Optimizing the genetic prediction of the eye and hair color for North Eurasian populations. 2020 , 21, 527	6
885	Information transmission from NFkB signaling dynamics to gene expression. 2020 , 16, e1008011	6
884	Binary Trees for Dependence Structure. 2020 , 8, 150989-150998	
883	Direct Quantification of Coronary Artery Stenosis Through Hierarchical Attentive Multi-View Learning. 2020 , 39, 4322-4334	9
882	Learning Both Dynamic-Shared and Dynamic-Specific Patterns for Chaotic Time-Series Prediction. 2020 , PP,	3
881	From explanations to feature selection: assessing SHAP values as feature selection mechanism. 2020 ,	16

880	A Dynamic Model Incorporated with Delay Estimation and Variable Selection for Control of SCR De-NO _x Process. 2020 , 10, 1364	3
879	A Review of Hyperscanning and Its Use in Virtual Environments. 2020 , 7, 55	1
878	Downscaling and improving the wind forecasts from NWP for wind energy applications using support vector regression. 2020 , 1618, 062034	0
877	PyIF: A Fast and Light Weight Implementation to Estimate Bivariate Transfer Entropy for Big Data. 2020 ,	0
876	Interference Elimination of Wall Fluctuation Pressure Test Signal of High-Speed Train Based on Phase Space Reconstruction and Vibration Interference Model. 2020 , 19, 2050020	2
875	Exploitation of Information as a Trading Characteristic: A Causality-Based Analysis of Simulated and Financial Data. 2020 , 22,	1
874	FASTENER Feature Selection for Inference from Earth Observation Data. 2020 , 22,	1
873	A Comparative Analysis of Machine Learning Techniques for Muon Count in UHECR Extensive Air-Showers. 2020 , 22,	2
872	Does the Hashrate Affect the Bitcoin Price?. 2020 , 13, 263	3
871	Efficient Machine-Learning-Aided Screening of Hydrogen Adsorption on Bimetallic Nanoclusters. 2020 , 22, 768-781	4
870	Transfer Entropy Analysis of Interactions between Bats Using Position and Echolocation Data. 2020 , 22,	1
869	Construction and Application of Functional Brain Network Based on Entropy. 2020 , 22,	3
868	Uniform Partitioning of Data Grid for Association Detection. 2020 , PP,	0
867	The Information Bottleneck Problem and its Applications in Machine Learning. 2020 , 1, 19-38	12
866	Optimized Mahalanobis-Taguchi System for High-Dimensional Small Sample Data Classification. 2020 , 2020, 4609423	3
865	Structural Deformation Controls Charge Losses in MAPbI ₃ : Unsupervised Machine Learning of Nonadiabatic Molecular Dynamics. 2020 , 5, 1930-1938	32
864	Evaluation of Methods for Causal Discovery in Hydrometeorological Systems. 2020 , 56, e2020WR027251	8
863	Neurophysiological Hallmarks of Neurodegenerative Cognitive Decline: The Study of Brain Connectivity as A Biomarker of Early Dementia. 2020 , 10,	12

862	Transfer entropy rate through Lempel-Ziv complexity. <i>Physical Review E</i> , 2020 , 101, 052117	2.4	3
861	Learning clinical networks from medical records based on information estimates in mixed-type data. 2020 , 16, e1007866		2
860	. 2020 , 66, 5456-5491		3
859	Complexity Analysis of Surface Electromyography for Assessing the Myoelectric Manifestation of Muscle Fatigue: A Review. 2020 , 22,		30
858	Large scale active-learning-guided exploration for in vitro protein production optimization. 2020 , 11, 1872		35
857	On Geometry of Information Flow for Causal Inference. 2020 , 22,		2
856	Adaptive Spatial Filtering of High-Density EMG for Reducing the Influence of Noise and Artefacts in Myoelectric Control. 2020 , 28, 1511-1517		12
855	Decoding collective communications using information theory tools. 2020 , 17, 20190563		18
854	Mutual Information Based Learning Rate Decay for Stochastic Gradient Descent Training of Deep Neural Networks. 2020 , 22,		1
853	Refined nonuniform embedding for coupling detection in multivariate time series. <i>Physical Review E</i> , 2020 , 101, 062113	2.4	16
852	Secure Triplet Loss for End-to-End Deep Biometrics. 2020 ,		3
851	. 2020 , 1, 121-130		10
850	Flexible Multielectrode Arrays With 2-D and 3-D Contacts for Electromyography Recording. 2020 , 10, 197-202		2
849	Tilting Together: An Information-Theoretic Characterization of Behavioral Roles in Rhythmic Dyadic Interaction. 2020 , 14, 185		5
848	Efficient Coding by Midget and Parasol Ganglion Cells in the Human Retina. 2020 , 107, 656-666.e5		18
847	New Analysis Framework Incorporating Mixed Mutual Information and Scalable Bayesian Networks for Multimodal High Dimensional Genomic and Epigenomic Cancer Data. 2020 , 11, 648		3
846	Active efficient coding explains the development of binocular vision and its failure in amblyopia. 2020 , 117, 6156-6162		10
845	Physics-Informed Neural Networks for Cardiac Activation Mapping. 2020 , 8,		61

844	Inferring Causal Gene Regulatory Networks from Coupled Single-Cell Expression Dynamics Using Scribe. 2020 , 10, 265-274.e11	36
843	Application of information theory in systems biology. 2020 , 12, 377-384	6
842	DNNAce: Prediction of prokaryote lysine acetylation sites through deep neural networks with multi-information fusion. 2020 , 200, 103999	25
841	Analysis of KNN Information Estimators for Smooth Distributions. 2020 , 66, 3798-3826	8
840	Searching for structure in collective systems. 2021 , 140, 361-377	1
839	On the automatic parameter selection for permutation entropy. 2020 , 30, 033130	13
838	Convergence of Smoothed Empirical Measures With Applications to Entropy Estimation. 2020 , 66, 4368-4391	4
837	Information flow in finite flocks. 2020 , 10, 3837	8
836	Measuring Information Coupling between the Solar Wind and the Magnetosphere-Ionosphere System. 2020 , 22,	7
835	Estimating Differential Entropy using Recursive Copula Splitting. 2020 , 22,	3
834	Tensor mutual information and its applications. 2020 , e5686	1
833	Datasets for Cognitive Load Inference Using Wearable Sensors and Psychological Traits. 2020 , 10, 3843	15
832	Comparison of Instance Selection and Construction Methods with Various Classifiers. 2020 , 10, 3933	3
831	Estimation of seismic quality factor in the time-frequency domain using variational mode decomposition. 2020 , 85, V329-V343	6
830	Conditional Mutual Information Neural Estimator. 2020 ,	2
829	Can we detect clusters of chaotic dynamical networks via causation entropy?. 2020 , 30, 063127	
828	Distribution-Free Consistent Independence Tests via Center-Outward Ranks and Signs. 2020 , 1-16	15
827	Mutual information based feature subset selection in multivariate time series classification. 2020 , 108, 107525	16

826	Mutual information rate of nonstationary statistical signals. 2020 , 171, 107531	2
825	Improving on transfer entropy-based network reconstruction using time-delays: Approach and validation. 2020 , 30, 023125	3
824	Unsupervised bin-wise pre-training: A fusion of information theory and hypergraph. 2020 , 195, 105650	5
823	Development of an Effective Computing Framework for Classification of Motor Imagery EEG Signals for Brain-Computer Interface. 2020 , 17-35	1
822	Morphology-Agnostic Visual Robotic Control. 2020 , 5, 766-773	
821	Machine-Learning-Based Image Similarity Analysis for Use in Materials Characterization. 2020 , 3, 1900237	1
820	Deep Learning for Proactive Network Monitoring and Security Protection. 2020 , 8, 19696-19716	18
819	Network inference in systems biology: recent developments, challenges, and applications. 2020 , 63, 89-98	22
818	Causal network discovery by iterative conditioning: Comparison of algorithms. 2020 , 30, 013117	5
817	Reciprocal characterization from multivariate time series to multilayer complex networks. 2020 , 30, 013137	4
816	. 2020 , 8, 20313-20324	28
815	Feature Selection for Machine Learning Based Step Length Estimation Algorithms. 2020 , 20,	4
814	Neural Canonical Transformation with Symplectic Flows. 2020 , 10,	8
813	Melanoma and Nevus Skin Lesion Classification Using Handcraft and Deep Learning Feature Fusion via Mutual Information Measures. 2020 , 22,	41
812	On the Use of Correlation and MI as a Measure of Metabolite-Metabolite Association for Network Differential Connectivity Analysis. 2020 , 10,	10
811	BrainPrint: EEG biometric identification based on analyzing brain connectivity graphs. 2020 , 105, 107381	19
810	Averaging Is Probably Not the Optimum Way of Aggregating Parameters in Federated Learning. 2020 , 22,	5
809	Bundled Causal History Interaction. 2020 , 22,	0

808	Differential Entropy Analysis of the Acoustic Characteristics of a Biomimetic Dynamic Sonar Emitter. 2020 , 12, 391	
807	Automated classification of social network messages into Smart Cities dimensions. 2020 , 109, 218-237	12
806	Deep multiplex graph infomax: Attentive multiplex network embedding using global information. 2020 , 197, 105861	15
805	Dynamic inferential NO emission prediction model with delay estimation for SCR de-NO process in coal-fired power plants. 2020 , 7, 191647	4
804	Evaluation of soil moisture from CCAM-CABLE simulation, satellite-based models estimates and satellite observations: a case study of Skukuza and Malopeni flux towers. 2020 , 24, 1587-1609	4
803	A New Coefficient of Correlation. 2020 , 1-21	16
802	Role of allosteric switches and adaptor domains in long-distance cross-talk and transient tunnel formation. 2020 , 6, eaay7919	7
801	Profiling Cell Signaling Networks at Single-cell Resolution. 2020 , 19, 744-756	16
800	Achieving Highly Scalable Evolutionary Real-Valued Optimization by Exploiting Partial Evaluations. 2021 , 29, 129-155	1
799	Understanding Convolutional Neural Networks With Information Theory: An Initial Exploration. 2021 , 32, 435-442	11
798	AMIC: An Adaptive Information Theoretic Method to Identify Multi-Scale Temporal Correlations in Big Time Series Data. 2021 , 7, 128-146	2
797	Statistical Estimation of Mutual Information for Mixed Model. 2021 , 23, 123-142	1
796	Adoption of electric vehicles: Which factors are really important?. 2021 , 15, 799-813	9
795	Morphometrical analysis of torrential flows-prone catchments in tropical and mountainous terrain of the Colombian Andes by machine learning techniques. 2021 , 105, 983-1012	4
794	Multi-generator GAN learning disconnected manifolds with mutual information. 2021 , 212, 106513	2
793	A new machine learning ensemble model for class imbalance problem of screening enhanced oil recovery methods. 2021 , 198, 108214	12
792	Inferring pattern generators on networks. 2021 , 566, 125631	2
791	Agglomerative Info-Clustering: Maximizing Normalized Total Correlation. 2021 , 67, 2001-2011	

790	A nonparametric copula-based decision tree for two random variables using MIC as a classification index. 2021 , 25, 9677-9692	1
789	A Novel Multivariate-Multiscale Approach for Computing EEG Spectral and Temporal Complexity for Human Emotion Recognition. 2021 , 21, 3579-3591	32
788	AHW-BGOA-DNN: a novel deep learning model for epileptic seizure detection. 2021 , 33, 6065-6093	7
787	Conditional Mutual Information Estimation for Mixed, Discrete and Continuous Data. 2021 , 67, 464-484	0
786	Double-Layer Distributed Monitoring Based on Sequential Correlation Information for Large-Scale Industrial Processes in Dynamic and Static States. 2021 , 17, 6419-6428	15
785	. 2021 , 59, 5598-5618	0
784	A context-aware recommendation approach based on feature selection. 2021 , 51, 865-875	5
783	A Data-driven Explainable Case-based Reasoning Approach for Financial Risk Detection.	1
782	Combining Feature Selection Methods with BERT: An In-depth Experimental Study of Long Text Classification. 2021 , 567-582	0
781	Optimizing Task Location Privacy in Mobile Crowdsensing Systems. 2021 , 1-1	1
780	Information-Theoretic Representation Learning for Positive-Unlabeled Classification. 2021 , 33, 244-268	0
779	Inferring Effective Connectivity Networks From fMRI Time Series With a Temporal Entropy-Score. 2021 , PP,	3
778	On the Information of Feature Maps and Pruning of Deep Neural Networks. 2021 ,	
777	Mutual Information based Method for Unsupervised Disentanglement of Video Representation. 2021 ,	
776	Fast and Efficient High-Sigma Yield Analysis and Optimization using Kernel Density Estimation on a Bayesian Optimized Failure Rate Model. 2021 , 1-1	2
775	Unsupervised Two-Stage Root-Cause Analysis for Integrated Systems. 2021 , 1-1	
774	Network-based brain computer interfaces: principles and applications. 2020 ,	6
773	MINT: Deep Network Compression via Mutual Information-based Neuron Trimming. 2021 ,	0

772	Kolmogorov Turbulence and Information Dissipation in Molecular Communication. 2021 , 1-1	1
771	Privacy in the Cloud: A Survey of Existing Solutions and Research Challenges. 2021 , 9, 10473-10497	3
770	. 2021 ,	
769	Estimation of Directed Dependencies in Time Series Using Conditional Mutual Information and Non-linear Prediction. 2021 ,	1
768	Capacity-Driven Autoencoders for Communications. 2021 , 2, 1366-1378	3
767	Characterization and Exploitation of Quasi Determinism in Multi-Conductor Power Line Communication Noise. 2021 , 2, 1809-1825	
766	Finite Sample Based Mutual Information. 2021 , 9, 118871-118879	1
765	Research on Influencing Factors of Fatigue Driving Based on Decision Tree. 2021 ,	
764	Gaussianizing the Earth: Multidimensional Information Measures for Earth Data Analysis. 2021 , 2-19	1
763	Rank-based univariate feature selection methods on machine learning classifiers for code smell detection. 1	4
762	Locomotion, interactions and information transfer vary according to context in a cryptic fish species. 2021 , 75, 1	3
761	On Information Plane Analyses of Neural Network Classifiers--A Review. 2021 , PP,	4
760	SAILER: Scalable and Accurate Invariant Representation Learning for Single-Cell ATAC-Seq Processing and Integration.	1
759	Privacy-Preserving Audio Classification Using Variational Information Feature Extraction. 2021 , 29, 2864-2877	1
758	Multiscale Wavelet Transfer Entropy with Application to Corticomuscular Coupling Analysis. 2021 , PP,	1
757	Reducing the Variance of Variational Estimates of Mutual Information by Limiting the Critic's Hypothesis Space to RKHS. 2021 ,	
756	Privacy-Net: An Adversarial Approach for Identity-Obfuscated Segmentation of Medical Images. 2021 , 40, 1737-1749	2
755	Survival Prediction of Glioma Tumors Using Feature Selection and Linear Regression. 2021 , 85-92	

754	Neural Estimators for Conditional Mutual Information Using Nearest Neighbors Sampling. 2021 , 69, 766-780	
753	EEG-Based Cognitive State Assessment Using Deep Ensemble Model and Filter Bank Common Spatial Pattern. 2021 ,	3
752	Information Rate in Humans during Visuomotor Tracking. 2021 , 23,	0
751	Bladder pressure encoding by sacral dorsal root ganglion fibres: implications for decoding. 2020 ,	0
750	Artificial Intelligence to Get Insights of Multi-Drug Resistance Risk Factors during the First 48 Hours from ICU Admission. 2021 , 10,	5
749	A Graph-Based Framework for Structured Prediction Tasks in Sanskrit. 2021 , 46, 785-845	1
748	Decentralized dynamic process monitoring based on manifold regularized slow feature analysis. 2021 , 98, 79-91	6
747	Sufficiency of a Gaussian power spectrum likelihood for accurate cosmology from upcoming weak lensing surveys. 2021 , 503, 1999-2013	4
746	Networks of mutually coupled random lasers. 2021 , 8, 193	7
745	Constructing Brain Connectivity Model Using Causal Network Reconstruction Approach. 2021 , 15, 619557	1
744	A method for continuous-range sequence analysis with Jensen-Shannon divergence. 13, 130001	
743	QSAR Models for Active Substances against Using Disk-Diffusion Test Data. 2021 , 26,	2
742	Feature selection accelerated convolutional neural networks for visual tracking. 2021 , 51, 8230	5
741	A robust two-stage sleep spindle detection approach using single-channel EEG. 2020 ,	3
740	A Study on Shape-Dependent Settling of Single Particles with Equal Volume Using Surface Resolved Simulations. 2021 , 9, 40	2
739	Inferring functional connectivity through graphical directed information. 2021 ,	1
738	Addressing indirect frequency coupling via partial generalized coherence. 2021 , 11, 6535	
737	Discovery of signatures of fatal neonatal illness in vital signs using highly comparative time-series analysis.	2

736	A model for port throughput forecasting using Bayesian estimation. 2021 , 23, 348-368	2
735	The effect of predation risk on group behaviour and information flow during repeated collective decisions. 2021 , 173, 215-239	2
734	Per Mut: Spatially Resolved Hydration Entropies from Atomistic Simulations. 2021 , 17, 2090-2098	5
733	Statistical Estimation of the Kullback-Leibler Divergence. 2021 , 9, 544	4
732	Nonparametric-copula-entropy and network deconvolution method for causal discovery in complex manufacturing systems. 1	4
731	Variable Selection for Fault Detection Based on Causal Discovery Methods: Analysis of an Actual Industrial Case. 2021 , 9, 544	2
730	The Value of L-Band Soil Moisture and Vegetation Optical Depth Estimates in the Prediction of Vegetation Phenology. 2021 , 13, 1343	1
729	Concepts and Applications of Information Theory to Immuno-Oncology. 2021 , 7, 335-346	2
728	Secrecy Enhancing of SSK Systems for IoT Applications in Smart Cities. 2021 , 8, 6385-6392	5
727	Large-scale nonlinear Granger causality for inferring directed dependence from short multivariate time-series data. 2021 , 11, 7817	2
726	Evaluating the performance of multivariate indicators of resilience loss. 2021 , 11, 9148	7
725	Review of Load Forecasting Based on Artificial Intelligence Models. 2021 ,	0
724	Remaining useful life prediction for ion etching machine cooling system using deep recurrent neural network-based approaches. 2021 , 109, 104748	7
723	Dynamic modeling of SCR denitration systems in coal-fired power plants based on a bi-directional long short-term memory method. 2021 , 148, 867-878	3
722	Towards a multi-brain framework for hypnosis: a review of quantitative methods. 2021 , 63, 389-403	1
721	A Fast Transform for Brain Connectivity Difference Evaluation. 2021 , 1	3
720	Fitness-Based Linkage Learning in the Real-Valued Gene-Pool Optimal Mixing Evolutionary Algorithm. 2021 , 25, 358-370	0
719	Contrastive learning of graph encoder for accelerating pedestrian trajectory prediction training.	

718	Secure Triplet Loss: Achieving Cancelability and Non-Linkability in End-to-End Deep Biometrics. 2021 , 3, 180-189	5
717	. 2021 , 6, 2099-2105	5
716	Estimating Transfer Entropy in Continuous Time Between Neural Spike Trains or Other Event-Based Data. 2021 , 17, e1008054	10
715	Neural connectivity inference with spike-timing dependent plasticity network. 2021 , 64, 1	0
714	Feature selection procedures for combined density functional theory-artificial neural network schemes. 2021 , 96, 065807	1
713	Predictive Coding Over the Lifespan: Increased Reliance on Perceptual Priors in Older Adults-A Magnetoencephalography and Dynamic Causal Modeling Study. 2021 , 13, 631599	2
712	Automated CT Lung Density Analysis of Viral Pneumonia and Healthy Lungs Using Deep Learning-Based Segmentation, Histograms and HU Thresholds. 2021 , 11,	3
711	An Information-Theoretic Framework for Optimal Design: Analysis of Protocols for Estimating Soft Tissue Parameters in Biaxial Experiments. 2021 , 10, 79	1
710	Mutual information matrix based on asymmetric Shannon entropy for nonlinear interactions of time series. 2021 , 104, 3913	7
709	Mutual Information Reveals Non-linear Relationships between Electrocardiographic Conduction or Repolarization Indices and Mechanical Dispersion by Speckle-Tracking Echocardiography in the General Population. 2021 , 47, 1408-1420	
708	A Turntable Setup for Testing Visual and Tactile Grasping Movements in Non-human Primates. 2021 , 15, 648483	1
707	An Artificial Neural Network for Predicting the Near-fault Directivity-pulse Period. 1-20	2
706	Entropi İlerinin Kestirim Bârişim İcelenmesi. 2021 , 23, 435-457	0
705	Neural Functional Connectivity Reconstruction with Second-Order Memristor Network. 2021 , 3, 2000276	2
704	Neural Estimator of Information for Time-Series Data with Dependency. 2021 , 23,	1
703	The Dynamic Influence of Linker Histone Saturation within the Poly-Nucleosome Array. 2021 , 433, 166902	5
702	Industrial Semi-Supervised Dynamic Soft-Sensor Modeling Approach Based on Deep Relevant Representation Learning. 2021 , 21,	4
701	Hyperharmonic analysis for the study of high-order information-theoretic signals. 2021 , 2, 035009	0

700	Maximally efficient prediction in the early fly visual system may support evasive flight maneuvers. 2021 , 17, e1008965	0
699	Renormalized Mutual Information for Artificial Scientific Discovery. 2021 , 126, 200601	0
698	Smart Build Targets Batching Service at Google. 2021 ,	
697	Materials property prediction for limited datasets enabled by feature selection and joint learning with MODNet. 2021 , 7,	9
696	ennemi: Non-linear correlation detection with mutual information. 2021 , 14, 100686	5
695	A data value metric for quantifying information content and utility. 2021 , 8, 82	0
694	Risk spillover networks in financial system based on information theory. 2021 , 16, e0252601	0
693	Machine Learning Protocols in Early Cancer Detection Based on Liquid Biopsy: A Survey. 2021 , 11,	6
692	A hierarchical Bayesian model for background variation in radiation source localization. 2021 , 1002, 165288	0
691	Soft-Sensor for Class Prediction of the Percentage of Pentanes in Butane at a Debutanizer Column. 2021 , 21,	1
690	Identification of Discriminative Features from Light Curves for Automatic Classification of Variable Stars. 2021 ,	
689	Keys from the Sky: A First Exploration of Physical-Layer Security Using Satellite Links. 2021 ,	
688	. 2021 ,	
687	Perception of Social Odor and Gender-Related Differences Investigated Through the Use of Transfer Entropy and Embodied Medium. 2021 , 15, 650528	0
686	Early lock-in of structured and specialised information flows during neural development.	1
685	Super multi-step wind speed forecasting system with training set extension and horizontal-vertical integration neural network. 2021 , 292, 116908	2
684	Predicting breast cancer biopsy outcomes from BI-RADS findings using random forests with chi-square and MI features. 1	2
683	Accelerated search for ABO3-type the electronic contribution of polycrystalline dielectric constants by machine learning. 2021 , 193, 110404	2

682	MI_DenseNetCAM: A Novel Pan-Cancer Classification and Prediction Method Based on Mutual Information and Deep Learning Model. 2021 , 12, 670232	0
681	A functionally divergent intrinsically disordered region underlying the conservation of stochastic signaling.	
680	Predicting high-dimensional heterogeneous time series employing generalized local states. 2021 , 3,	2
679	Optimizing Reservoir Computers for Signal Classification. 2021 , 12, 685121	1
678	Leading indicators for US house prices: New evidence and implications for EU financial risk managers.	2
677	A clustering based traffic flow prediction method with dynamic spatiotemporal correlation analysis. 1	0
676	Information dynamics in neuromorphic nanowire networks. 2021 , 11, 13047	9
675	Screening of knee-joint vibroarthrographic signals using time and spectral domain features. 2021 , 68, 102808	4
674	Adaptive Label Smoothing for Classifier-based Mutual Information Neural Estimation. 2021 ,	0
673	Information Bottleneck Analysis by a Conditional Mutual Information Bound. 2021 , 23,	0
672	A Comparison of Conventional and Tri-Polar EEG Electrodes for Decoding Real and Imaginary Finger Movements from One Hand. 2021 , 31, 2150036	3
671	An information theoretic method to resolve millisecond-scale spike timing precision in a comprehensive motor program.	
670	Monitoring the rapid changes in mangrove vegetation of coastal urban environment using polynomial trend analysis of temporal satellite data. 2021 , 46, 101871	1
669	Fatigue driving recognition based on deep learning and graph neural network. 2021 , 68, 102598	7
668	Robust model benchmarking and bias-imbalance in data-driven materials science: a case study on MODNet. 2021 , 33,	2
667	Gradient estimation of information measures in deep learning. 2021 , 224, 107046	1
666	. 2021 ,	
665	A Review on Mental Stress Assessment Methods Using EEG Signals. 2021 , 21,	14

664	Visually and Tactually Guided Grasps Lead to Different Neuronal Activity in Non-human Primates. 2021 , 15, 679910	
663	Information transfer in finite flocks with topological interactions. 2021 , 53, 101370	1
662	Relationship between mutual information and cross-correlation time scale of observability as measures of connectivity strength. 2021 , 31, 073106	1
661	Kernel-Based Phase Transfer Entropy with Enhanced Feature Relevance Analysis for Brain Computer Interfaces. 2021 , 11, 6689	2
660	An ensemble-based feature selection framework to select risk factors of childhood obesity for policy decision making. 2021 , 21, 222	1
659	Benchmarking Transfer Entropy Methods for the Study of Linear and Nonlinear Cardio-Respiratory Interactions. 2021 , 23,	0
658	SAILER: scalable and accurate invariant representation learning for single-cell ATAC-seq processing and integration. 2021 , 37, i317-i326	1
657	On Enhanced Ensemble Learning for Multimodal Remote Sensing Data Analysis by Capacity Optimization. 2021 ,	0
656	Quantifying the Long-Range Coupling of Electronic Properties in Proteins with ab initio Molecular Dynamics**. 2021 , 1, 362-373	0
655	A test for independence via Bayesian nonparametric estimation of mutual information.	2
654	Mutations in SARS-CoV-2 Variants Modulate the Microscopic Dynamics of Neutralizing Antibodies.	
653	Mutual information, quantum phase transition, and phase coherence in Kondo systems. 2021 , 104,	0
652	Digital Currency Illegal Behavior Detection Based on Mutual Information Prior Loss. 2021 , 2021, 1-8	
651	An intelligent fault diagnosis method based on domain adaptation for rolling bearings under variable load conditions. 095440622110329	3
650	Silhouette: Efficient Cloud Configuration Exploration for Large-Scale Analytics. 2021 , 32, 2049-2061	2
649	Obstructive sleep apnea predicts 10-year cardiovascular disease related mortality in the Sleep Heart Health Study: a machine learning approach. 2021 ,	1
648	Reading grid for feature selection relevance criteria in regression. 2021 , 148, 92-99	0
647	A Tri-Stage Wrapper-Filter Feature Selection Framework for Disease Classification. 2021 , 21,	18

646	Causality indices for bivariate time series data: A comparative review of performance. 2021 , 31, 083111	2
645	A Machine learning-based prediction model for the heart diseases from chance factors through two-variable decision tree classifier. 2021 , 1-18	0
644	Detecting direct causality in multivariate time series: A comparative study. 2021 , 99, 105797	2
643	A survey on feature selection methods for mixed data. 1	2
642	. 2021 , 67, 5963-5996	1
641	Mutual Information in Molecular and Macromolecular Systems. 2021 , 22,	
640	New Measures of Heart Rate Variability Based on Subband Tachogram Complexity and Spectral Characteristics for Improved Stress and Anxiety Monitoring in Highly Ecological Settings. 1,	0
639	MIDESP: Mutual Information-Based Detection of Epistatic SNP Pairs for Qualitative and Quantitative Phenotypes. 2021 , 10,	0
638	Using hypertemporal Sentinel-1 data to predict forest growing stock volume.	0
637	Clustering high-frequency financial time series based on information theory.	0
636	Enhancing the wine tasting experience using greedy clustering wine recommender system. 1	0
635	Monitoring Crack Propagation using Data-Driven Causal Discovery and Supervised Learning.	
634	Prediction of protein ubiquitination sites via multi-view features based on eXtreme gradient boosting classifier. 2021 , 107, 107962	3
633	A nonparametric algorithm for estimating mutual information between digital signals. 2021 , 116, 103111	0
632	A functionally divergent intrinsically disordered region underlying the conservation of stochastic signaling. 2021 , 17, e1009629	0
631	Dependence between Structural and Electronic Properties of CsPbI ₃ : Unsupervised Machine Learning of Nonadiabatic Molecular Dynamics. 2021 , 12, 8672-8678	11
630	Local synergies and antagonisms between meteorological factors and air pollution: A 15-year comprehensive study in the Sydney region. 2021 , 788, 147783	7
629	Hunting the quicksilver: Using textual news and causality analysis to predict market volatility. 2021 , 77, 101848	0

628	Distributed process monitoring based on joint mutual information and projective dictionary pair learning. 2021 , 106, 130-141		1
627	A maximal overlap discrete wavelet packet transform integrated approach for rainfall forecasting □ A case study in the Awash River Basin (Ethiopia). 2021 , 144, 105119		2
626	Ensemble deep relevant learning framework for semi-supervised soft sensor modeling of industrial processes. 2021 , 462, 154-168		3
625	Detecting the damage of bridges under changing environmental conditions using the characteristics of the nonlinear narrow dimension of damage features. 2021 , 159, 107842		4
624	Mitigating severe over-parameterization in deep convolutional neural networks through forced feature abstraction and compression with an entropy-based heuristic. 2021 , 119, 108057		0
623	An integrated framework of sensing, machine learning, and augmented reality for aquaculture prawn farm management. 2021 , 95, 102192		3
622	A feature extraction- and ranking-based framework for electricity spot price forecasting using a hybrid deep neural network. 2021 , 200, 107453		7
621	Mutual information for explainable deep learning of multiscale systems. 2021 , 444, 110551		3
620	UAV-based coffee yield prediction utilizing feature selection and deep learning. 2021 , 1, 100010		1
619	Fuzzy Jaccard Index: A robust comparison of ordered lists. 2021 , 113, 107849		3
618	Exploratory data analysis for airline disruption management. 2021 , 6, 100102		0
617	Characteristics of the neural coding of causality. <i>Physical Review E</i> , 2021 , 103, 012406	2.4	1
616	Self-organization and information transfer in Antarctic krill swarms.		1
615	PDBcor: An Automated Correlation Extraction Calculator for Multi-State Protein Structures.		1
614	An Information-Theoretic Framework to Measure the Dynamic Interaction Between Neural Spike Trains. 2021 , 68, 3471-3481		7
613	Performance Analysis of Machine Learning Classifiers on Different Healthcare Datasets. 2021 , 99-111		1
612	Dispersion conditional mutual information: a novel measure to estimate coupling direction between complex systems. 2021 , 103, 1139-1150		1
611	Causal network reconstruction from nonlinear time series: A comparative study. 2021 , 32, 2150049		0

610	A Matrix Iteration Algorithm With Pruning for Pinpointing Multivariate Correlations From High Dimensional Data Sets. 2021 , 9, 5150-5165	
609	Quantifying the Predictability of Visual Scanpaths Using Active Information Storage. 2021 , 23,	1
608	Privug: Using Probabilistic Programming for Quantifying Leakage in Privacy Risk Analysis. 2021 , 417-438	3
607	A novel two-band equilateral wavelet filter bank method for an automated detection of seizure from EEG signals. 2020 , 30, 978-993	6
606	Measuring Global Behaviour of Multi-agent Systems from Pair-Wise Mutual Information. 2005 , 587-594	1
605	High-Dimensional Normalized Mutual Information for Image Registration Using Random Lines. 2006 , 264-271	15
604	Speeding Up the Wrapper Feature Subset Selection in Regression by Mutual Information Relevance and Redundancy Analysis. 2006 , 31-40	14
603	MIC: Mutual Information Based Hierarchical Clustering. 2009 , 101-123	18
602	Causality in Time Series: Its Detection and Quantification by Means of Information Theory. 2009 , 183-207	4
601	Community Network Analysis of Allosteric Proteins. 2021 , 2253, 137-151	8
600	IDENTIFICATION OF COMPLEX PROCESSES BASED ON ANALYSIS OF PHASE SPACE STRUCTURES. 2007 , 207-242	4
599	Comparison of Resampling Techniques for the Non-causality Hypothesis. 2014 , 419-429	1
598	Genome-wide dissection of posttranscriptional and posttranslational interactions. 2012 , 786, 131-49	13
597	Representation Learning in Power Time Series Forecasting. 2020 , 67-101	3
596	Partial Mutual Information for Classification of Gene Expression Data by Learning Vector Quantization. 2014 , 259-269	2
595	Comparison of Dependency Measures for the Detection of Mutual Influences in Organic Computing Systems. 2016 , 334-347	5
594	A New Direction for Biosensing: RF Sensors for Monitoring Cardio-Pulmonary Function. 2017 , 289-312	4
593	Practical Estimation of Mutual Information on Non-Euclidean Spaces. 2017 , 123-136	1

592	Don't Underestimate the Human Factors! Exploring Team Communication Effects. 2017 , 457-469	5
591	Graph Time Series Analysis Using Transfer Entropy. 2018 , 217-226	1
590	Information-Theoretic Methods. 2008 , 167-185	4
589	Mutual Information Estimation in Higher Dimensions: A Speed-Up of a k-Nearest Neighbor Based Estimator. 2007 , 790-797	4
588	Information-Theoretic Feature Selection for the Classification of Hysteresis Curves. 2007 , 522-529	1
587	High-dimensional entropy estimation for finite accuracy data: R-NN entropy estimator. 2007 , 20, 569-80	5
586	Information Theoretic Derivations for Causality Detection: Application to Human Gait. 2007 , 159-168	2
585	Speeding Up Feature Subset Selection Through Mutual Information Relevance Filtering. 2007 , 277-287	2
584	Information Theoretic Feature Selection and Projection. 2008 , 1-22	5
583	Multi-attribute non-initializing texture reconstruction based active shape model (MANTRA). 2008 , 11, 653-61	4
582	Validity of the Independence Assumption for the Separation of Instantaneous and Convolutional Mixtures of Speech and Music Sources. 2009 , 613-620	4
581	Advances in Feature Selection with Mutual Information. 2009 , 52-69	16
580	Prediction and Mitigation of Crush Conditions in Emergency Evacuations. 2010 , 233-246	3
579	Density Ratio Estimation: A New Versatile Tool for Machine Learning. 2009 , 6-9	1
578	Nonlinear Dynamics as a Tool for Revealing Synchronization and Ordering in Geophysical Time Series: Application to Caucasus Seismicity. 2010 , 3-21	3
577	Trajectory Clustering for Vibration Detection in Aircraft Engines. 2010 , 362-375	2
576	Feature Selection for Multi-label Classification Problems. 2011 , 9-16	42
575	Weighted Mutual Information for Feature Selection. 2011 , 181-188	13

574	Feature Selection with Mutual Information for Uncertain Data. 2011 , 330-341	8
573	Forward Feature Selection Based on Approximate Markov Blanket. 2012 , 64-72	7
572	Computation in Complex Systems. 2013 , 13-52	2
571	Feature Selection for Electricity Load Prediction. 2012 , 526-534	4
570	A Performance Evaluation of Mutual Information Estimators for Multivariate Feature Selection. 2013 , 51-63	5
569	Identifying Peer Influence in Online Social Networks Using Transfer Entropy. 2013 , 47-61	13
568	Parallel Computing for Gene Networks Reverse Engineering. 2014 , 337-354	1
567	Efficient Estimation of Information Transfer. 2014 , 37-58	4
566	Thermochemical Data Fusion Using Graph Representation Learning. 2020 , 60, 4673-4683	2
565	Long Range Dependence in G7 Stock Markets Return Rates Using Mutual Information and Detrended Cross-Correlation Analysis. 2017 , 41, 55-72	3
564	Compound biological signatures facilitate phenotypic screening and target elucidation.	2
563	A statistical framework for neuroimaging data analysis based on mutual information estimated via a Gaussian copula.	3
562	Reverse-engineering biological networks from large data sets.	4
561	Predicting TUG score from gait characteristics with video analysis and machine learning.	1
560	Information theoretic approaches to deciphering the neural code with functional fluorescence imaging.	0
559	Estimating Transfer Entropy in Continuous Time Between Neural Spike Trains or Other Event-Based Data.	2
558	CoRhythMo: A Computational Framework for Modeling Biobehavioral Rhythms from Mobile and Wearable Data Streams.	1
557	Distant Residues Modulate Conformational Opening in SARS-CoV-2 Spike Protein.	9

556	Using a robotic fish to investigate individual differences in social responsiveness in the guppy.	3
555	Towards inferring causal gene regulatory networks from single cell expression Measurements.	13
554	A machine learning tool for interpreting differences in cognition using brain features.	1
553	Active Efficient Coding Explains the Development of Binocular Vision and its Failure in Amblyopia.	2
552	Precise timing is ubiquitous, consistent and coordinated across a comprehensive, spike-resolved flight motor program.	0
551	Large scale active-learning-guided exploration to maximize cell-free production.	0
550	k-core structure of real multiplex networks. 2020 , 2,	5
549	Mutual information analysis of the factors influencing port throughput. 2021 , 6, 129-146	3
548	Dynamic Undervolting to Improve Energy Efficiency on Multicore X86 CPUs. 2020 , 31, 2851-2864	0
547	Variability in the rigid pinna motions of hipposiderid bats and their impact on sensory information encoding. 2020 , 147, 469	1
546	Shortcomings of Transfer Entropy and Partial Transfer Entropy: Extending Them to Escape the Curse of Dimensionality. 2020 , 30, 2050250	1
545	Synchronization among Groups of Spectators for Highlight Detection in Movies. 2016 ,	4
544	Fast mutual information computation for dependency-monitoring on data streams. 2017 ,	0
543	Maximizing information gain for the characterization of biomolecular circuits. 2018 ,	6
542	An exploratory approach to measuring collaborative engagement in child robot interaction. 2020 ,	2
541	Learning-to-rank vs ranking-to-learn. 2020 ,	9
540	Target-Focused Feature Selection Using Uncertainty Measurements in Healthcare Data. 2020 , 1, 1-17	1
539	Spatio-chromatic information available from different neural layers via Gaussianization. 2020 , 10, 18	2

538	Optimal rates of entropy estimation over Lipschitz balls. 2020 , 48,	6
537	Equitability, Interval Estimation, and Statistical Power. 2020 , 35,	3
536	Fault Detection in Non-Gaussian Processes Based on Mutual Information Weighted Independent Component Analysis. 2014 , 47, 60-68	3
535	Functional Connectivity's Degenerate View of Brain Computation. 2016 , 12, e1005031	22
534	Reconciling emergences: An information-theoretic approach to identify causal emergence in multivariate data. 2020 , 16, e1008289	16
533	Measuring spectrally-resolved information transfer. 2020 , 16, e1008526	3
532	A novel estimator for the rate of information transfer by continuous signals. 2011 , 6, e18792	6
531	Noise amplification in human tumor suppression following gamma irradiation. 2011 , 6, e22487	3
530	Influence of statistical estimators of mutual information and data heterogeneity on the inference of gene regulatory networks. 2011 , 6, e29279	20
529	Efficient transfer entropy analysis of non-stationary neural time series. 2014 , 9, e102833	75
528	MuTE: a MATLAB toolbox to compare established and novel estimators of the multivariate transfer entropy. 2014 , 9, e109462	102
527	Functional aspects of the EGF-induced MAP kinase cascade: a complex self-organizing system approach. 2014 , 9, e111612	1
526	Independently controlled wing stroke patterns in the fruit fly <i>Drosophila melanogaster</i> . 2015 , 10, e0116813	5
525	A Graph Algorithmic Approach to Separate Direct from Indirect Neural Interactions. 2015 , 10, e0140530	11
524	Exploring Entrainment Patterns of Human Emotion in Social Media. 2016 , 11, e0150630	17
523	A New Algorithm to Optimize Maximal Information Coefficient. 2016 , 11, e0157567	13
522	Exploring Molecular Mechanisms of Paradoxical Activation in the BRAF Kinase Dimers: Atomistic Simulations of Conformational Dynamics and Modeling of Allosteric Communication Networks and Signaling Pathways. 2016 , 11, e0166583	22
521	Low-dimensional approximation searching strategy for transfer entropy from non-uniform embedding. 2018 , 13, e0194382	5

520	Polish is quantitatively different on quartzite flakes used on different worked materials. 2020 , 15, e0243295	6
519	Characterizing the Spatial Distribution of Geolocated Categorical Values. 2019 , 9, 47-53	1
518	IDTxl: The Information Dynamics Toolkit xl: a Python package for the efficient analysis of multivariate information dynamics in networks. 2019 , 4, 1081	29
517	Quantifying the Effects of Social Influence.	1
516	Parallel Algorithms for Inferring Gene Regulatory Networks: A Review. 2018 , 19, 603-614	2
515	Complex Networks, Gene Expression and Cancer Complexity: A Brief Review of Methodology and Applications. 2020 , 15, 629-655	5
514	Application of Improved Local Models of Large Scale Database-based Online Modeling to Prediction of Molten Iron Temperature of Blast Furnace. 2010 , 50, 939-945	7
513	Improved Feature Selection Based on Mutual Information for Regression Tasks. 2016 , 6, 11-24	2
512	On congruity of nodes and assortative information content in complex networks. 2012 , 7, 441-461	7
511	A New Variable Selection Method Based on Mutual Information Maximization by Replacing Collinear Variables for Nonlinear Quantitative Structure-Property Relationship Models. 2012 , 33, 1527-1535	4
510	The synergistic impact of ENSO and IOD on Indian summer monsoon rainfall in observations and climate simulations: An information theory perspective. 2020 , 11, 903-923	3
509	Topological analysis of multicellular complexity in the plant hypocotyl. 2017 , 6,	25
508	A Sparse-Modeling Based Approach for Class Specific Feature Selection. 2019 , 5, e237	7
507	Estimation of the Secret Key Rate in Wideband Wireless Physical-Layer-Security. 2021 ,	0
506	Predicting MMSE Score from Finger-Tapping Measurement. 2022 , 294-304	
505	Enabling Collaborative Data Science Development with the Ballet Framework. 2021 , 5, 1-39	0
504	Identifying Environmental- and Operational-Insensitive Damage Features. 2022 , 105-121	
503	Genetic Feature Selection Applied to KOSPI and Cryptocurrency Price Prediction. 2021 , 9, 2574	3

502 Prediction of DIII-D Pedestal Structure From Externally Controllable Parameters. **2021**, 49, 3212-3227

501 Molecular insights into phosphorylation-induced allosteric conformational changes in β -adrenergic receptor.

500 Machine Learning-Based Prediction of COVID-19 Mortality With Limited Attributes to Expedite Patient Prognosis and Triage: Retrospective Observational Study. **2021**, 2, e29392

5

499 The Robustness of Interdependent Directed Networks With Intra-layer Angular Correlations. **2021**, 9,

498 Explainable Molecular Sets: Using Information Theory to Generate Meaningful Descriptions of Groups of Molecules. **2021**, 61, 4877-4889

497 Hyperspectral band selection via region-aware latent features fusion based clustering. **2022**, 79, 162-173

3

496 Detection of COVID-19 from voice, cough and breathing patterns: Dataset and preliminary results. **2021**, 138, 104944

12

495 Feature Selection. **2009**, 878-882

494 Substitution Matrices and Mutual Information Approaches to Modeling Evolution. **2009**, 259-272

0

493 Information Distances over Clusters. **2010**, 355-364

1

492 Use of Prior Knowledge in a Non-Gaussian Method for Learning Linear Structural Equation Models. **2010**, 221-228

1

491 Antiepileptic Therapy Reduces Coupling Strength Among Brain Cortical Regions in Patients with Unverricht-Lundborg Disease: A Pilot Study. **2010**, 341-355

490 Analysis of Nonparametric Estimation Methods for Mutual Information Analysis. **2011**, 1-15

489 Mutual Information for the Detection of Crush. **2011**, 779-784

2

488 Survey and Merging of Sunspot Catalogs. **2012**, 109-125

487 Network-Based Methods for Computational Diagnostics by Means of R. **2012**, 185-197

2

486 Applying Multi-objective Optimization for Variable Selection to Analyze User Trust in Electronic Banking. **2012**, 143-152

1

485 Bibliography. 267-277

484 Information Transfer in Biological and Bio-Inspired Systems. **2013**, 177-202

483 Segmentation for Multiple Sclerosis Lesions Based on 3D Volume Enhancement and 3D Alpha Matting. **2013**, 573-580

1

482 Information Optimal Adaptive Measurement Design For Compressive Imaging. **2013**,

481 Generating Indicators for Diagnosis of Fault Levels by Integrating Information from Two or More Sensors. **2013**, 74-97

480 A Primer on Information Theory with Applications to Neuroscience. **2013**, 135-192

1

479 Combining surface and fiber geometry: an integrated approach to brain morphology. **2013**, 16, 50-7

0

478 Similarity estimators for irregular and age uncertain time series.

477 Methods for Variable Ranking and Selection. 385-415

476 A Nonparametric Causality Test: Detection of Direct Causal Effects in Multivariate Systems Using Corrected Partial Transfer Entropy. **2014**, 197-206

475 Estimating the Kullback-Leibler Divergence. **2014**, 61-85

1

474 Mutual Information Estimation with Random Forests. **2014**, 524-531

473 Encyclopedia of Computational Neuroscience. **2014**, 1-4

472 Navigation and Registration. **2015**, 159-206

471 Modeling the EUR/USD Index Using LS-SVM and Performing Variable Selection. **2015**, 165-172

470 Exploring Differential Nature of Human and Chimpanzee Organs through Linear Correlative and MI Measures. **2015**, 4, 12-18

469 Intersubject information mapping: revealing canonical representations of complex natural stimuli.

0

468 Hilbert-Schmidt and Sobol sensitivity indices for static and time series Wnt signaling measurements in colorectal cancer - Part A.

467 On Mutual Information over Non-Euclidean Spaces, Data Mining and Data Privacy Levels. **2016**, 371-383

466 Conclusions and Outlook. **2016**, 353-365

465 Model-Driven Evaluation of the Emergent Complexity of Cooperative Work Based on Effective Measure Complexity. **2016**, 215-281

464 Mutual Information with Parameter Determination Approach for Feature Selection in Multivariate Time Series Prediction. **2016**, 227-237

463 Motor control by precisely timed spike patterns.

462 Prioritizing 2nd order interactions via support vector ranking using sensitivity indices on time series Wnt measurements□

461 Prioritizing 2nd and 3rd order interactions via support vector ranking using sensitivity indices on static Wnt measurements - Part A [work in progress].

460 Auditory Stimuli Coding by Postsynaptic Potential and Local Field Potential Features. **2016**, 11, e0160089 1

459 Encoding of locomotion kinematics in the mouse cerebellum.

458 Information theoretic evidence for predictive coding in the face processing system. 1

457 Resting State Networks in empirical and simulated dynamic functional connectivity. 0

456 Basic Methods. **2017**, 285-428

455 On Distance Mapping from non-Euclidean Spaces to Euclidean Spaces. **2017**, 3-13

454 PAGeneRN. **2017**, 762-786 1

453 Real-time decoding of bladder pressure from pelvic nerve activity. 0

452 Predicting metabolic adaptation from networks of mutational paths.

451 Stereotypical modulations in dynamic functional connectivity explained by changes in BOLD variance.

450 Mutual information estimation for transcriptional regulatory network inference.

449 Combining mutual information and stable matching strategy for dynamic evolutionary multi-objective optimization. **2018**, 50, 1434-1452

- 448 MIC for Analyzing Attributes Associated with Thai Agricultural Products. **2018**, 40-47 1
- 447 Information transfer in QT-RR dynamics: Application to QT-correction.
- 446 Genome-wide prediction of synthetic rescue mediators of resistance to targeted and immunotherapy.
- 445 Searching for structure in collective systems.
- 444 KSG estimation of reconstruction delay to detect vocal disorders in nonlinear dynamical analysis. **2018**, 34, 217-225
- 443 Limits to the rate of information transmission through MAPK pathway. 1
- 442 Calculating the Mutual Information Between Two Spike Trains.
- 441 A Normalized Mutual Information Estimator Compensating Variance Fluctuations for Motion Detection. **2019**, 46-57
- 440 Comparison Between Filter Criteria for Feature Selection in Regression. **2019**, 59-71
- 439 Information Theory A Primer. **2019**, 29-56
- 438 Reliability-Aware and Robust Multi-sensor Fusion Toward Ego-Lane Estimation Using Artificial Neural Networks. **2019**, 423-454 2
- 437 Corticothalamic gating of population auditory thalamocortical transmission in mouse.
- 436 Neural ensemble activity depends on stimulus type in mouse primary visual cortex.
- 435 Bek Erişim Nedensellik Entropisi ile Belirlenmesi. **2019**, 21, 1027-1036
- 434 New analysis framework incorporating mixed mutual information and scalable Bayesian networks for multimodal high dimensional genomic and epigenomic cancer data.
- 433 Cell Type-specific Genome Scans of DNA Methylation Diversity Indicate an Important Role for Transposable Elements. 1
- 432 Heterogeneous synaptic weighting improves neural coding in the presence of common noise.
- 431 Maximally efficient prediction in the early fly visual system may support evasive flight maneuvers.

430	Predicting MMSE Score from Finger-Tapping Measurement.	1
429	Evaluating Street Networks for Predictive Policing. 2020 , 23-28	
428	Estimating mutual information under measurement error.	
427	An optimized design of seizure detection system using joint feature extraction of multichannel EEG signals. 2019 , 34, 191-204	2
426	Encyclopedia of Computational Neuroscience. 2020 , 1-4	
425	Information Theory and Statistical Mechanics. 2020 , 343-369	1
424	RADSSo: An Automated Tool for the multi-CASH Machine Learning Problem. 2020 , 183-194	
423	Are Deep Neural Architectures Losing Information? Invertibility is Indispensable. 2020 , 172-184	2
422	Methods of Statistical Analysis and Machine Learning for the Evaluation of Generated Hardware and Firmware Designs. 2020 , 99-119	
421	How features in iOS App Store Reviews can Predict Developer Responses. 2020 ,	3
420	Temporally anchored spatial knowledge: Corpora and experiments. 2021 , 27, 519-543	
419	Extraction and Analysis of Spatial Correlation Micrograph Features for Traceability in Manufacturing. 2020 , 20,	
418	Generalized correlation-based dynamical network analysis: a new high-performance approach for identifying allosteric communications in molecular dynamics trajectories.	0
417	Heterogeneous Synaptic Weighting Improves Neural Coding in the Presence of Common Noise. 2020 , 32, 1239-1276	0
416	A Data-driven Approach for Estimating Relative Voltage Sensitivity. 2020 ,	1
415	A data-driven approach based on quantile regression forest to forecast cooling load for commercial buildings. 2021 , 76, 103511	4
414	Band selection for oxygenation estimation with multispectral/hyperspectral imaging.. 2022 , 13, 1224-1242	2
413	Electricity Theft Detection. 2020 , 79-98	1

412	Not Quite Yourself Today. 2020 , 4, 1-29	7
411	Towards Situation Aware Dispatching in a Dynamic and Complex Manufacturing Environment. 2020 , ,	0
410	NetDI: Methodology Elucidating the Role of Power and Dynamical Brain Network Features That Underpin Word Production. 2021 , 8,	
409	Independent Vector Analysis based Convulsive Speech Separation by Estimating Entropy using Recursive Copula Splitting. 2020 ,	
408	Information rate in humans during visuomotor tracking.	
407	A Variational Autoencoder-Based Secure Transceiver Design Using Deep Learning. 2020 ,	1
406	Learning When to Stop: A Mutual Information Approach to Prevent Overfitting in Profiled Side-Channel Analysis. 2021 , 53-81	1
405	A Topology Identification and Impedance Estimation Method for Distribution Network with Distributed Generations. 2020 , 53, 13155-13160	1
404	PAGeneRN. 2020 , 1052-1075	1
403	Noise Feature Selection Method in PAKDD 2020 Alibaba AI Ops Competition: Large-Scale Disk Failure Prediction. 2020 , 109-118	
402	Farewell to Mutual Information: Variational Distillation for Cross-Modal Person Re-Identification. 2021 ,	10
401	Entropic regression with neurologically motivated applications. 2021 , 31, 113105	0
400	Improved Filter Ranking Incorporated Binary Black Hole Algorithm for Feature Selection. 2022 , 3, 1	1
399	Assessing Grapevine Nutrient Status from Unmanned Aerial System (UAS) Hyperspectral Imagery. 2021 , 13, 4489	5
398	MAVE-NN: learning genotype-phenotype maps from multiplex assays of variant effect.	6
397	Discovering Functional Dependencies from Mixed-Type Data. 2020 ,	0
396	Generating Indicators for Diagnosis of Fault Levels by Integrating Information from Two or More Sensors. 288-309	
395	Distribution-Free Learning of Bayesian Network Structure. 2008 , 423-439	

394	The Dynamic Influence of Linker Histone Saturation within the Poly-Nucleosome Array.	1
393	Mutual information in coupled double quantum dots. 2020 , 2020, 093209	
392	Predicting perturbation effects from resting activity using functional causal flow.	
391	Application of mutual information estimation for predicting the structural stability of pentapeptides. 2020 , 35, 263-271	1
390	Root-Cause Metric Location for Microservice Systems via Log Anomaly Detection. 2020 ,	5
389	Detection of Stereotypical Motor Movements in Autism using a Smartwatch-based System. 2018 , 2018, 952-960	2
388	Feature Selection and Dimension Reduction of Social Autism Data. 2020 , 25, 707-718	9
387	Privacy-Cost Management in Smart Meters with Mutual Information-Based Reinforcement Learning. 2021 , 1-1	
386	Functional connectivity inference from fMRI data using multivariate information measures. 2021 , 146, 85-97	1
385	Making connections: Information transfer in hydropower generation system during the transient process of load rejection. 2022 , 50, 101766	0
384	Mutual Information Analysis of Brain-Heart Interactions in Epileptic Children. 2021 ,	
383	A Reverse Jensen Inequality Result with Application to Mutual Information Estimation. 2021 ,	0
382	Compressing atmospheric data into its real information content. 2021 , 1, 713-724	1
381	Information sharing among cryptocurrencies: Evidence from mutual information and approximate entropy during COVID-19. 2021 , 102556	1
380	Quantifying Non-Stationarity with Information Theory.. 2021 , 23,	0
379	A game theory based analysis of network connectivity reveals that state transition is crucial for epilepsy surgery outcome prediction.	
378	Connectivity Analysis for Multivariate Time Series: Correlation vs. Causality.. 2021 , 23,	1
377	What Drives Bitcoin? An Approach from Continuous Local Transfer Entropy and Deep Learning Classification Models.. 2021 , 23,	4

- 376 The study of temperature regionalization in China using complex networks.
- 375 Analysis of Feature Dimension Reduction Techniques Applied on the Prediction of Impact Force in Sports Climbing Based on IMU Data. **2021**, 2, 662-683
- 374 Auto-tune learning framework for prediction of flowability, mechanical properties, and porosity of ultra-high-performance concrete (UHPC). **2021**, 115, 108182 3
- 373 Evaluating Data Characterization Measures for Clustering Problems in Meta-learning. **2021**, 621-632 1
- 372 A Comparative Analysis of Software Aging in Image Classifiers on Cloud and Edge. **2021**, 1-1 0
- 371 Ensemble Machine Learning and its Validation for Prediction of Coronary Artery Disease and Acute Coronary Syndrome using Focused Carotid Ultrasound. **2021**, 1-1 1
- 370 Interpretable Approximation of High-Dimensional Data. **2021**, 3, 1301-1323 0
- 369 Data-driven identification model for associated fault propagation path. **2022**, 188, 110628 1
- 368 Deep Learning Demodulation of Amplitude Noise Shift Keying Spread Spectrum Signals. **2020**,
- 367 Privacy-Cost Management in Smart Meters Using Deep Reinforcement Learning. **2020**, 3
- 366 Independent Component Analysis based speech separation using geometric kth nearest neighbor entropy estimator. **2020**,
- 365 Time-varying graph analysis comparing speech perception in healthy and aphasic brains. **2020**,
- 364 Soft Sensor for Online Prediction of Cement Fineness in Ball Mill. **2020**,
- 363 Classification of Dementia Associated Disorders Using EEG based Frequent Subgraph Technique. **2020**, 0
- 362 Prediction of student retention in first year of engineering program at a technological chilean university. **2020**,
- 361 A Comparison of Block Based Kalman Filter and H-Infinity Algorithms for Blind Image Separation. **2021**, 32, 339-355 0
- 360 Leveraging Pre-Images to Discover Nonlinear Relationships in Multivariate Environments. **2021**, 0
- 359 Robust Pose Estimation Based on Normalized Information Distance. **2021**,

- 358 Evaluating Resilience of Encrypted Traffic Classification against Adversarial Evasion Attacks. **2021**, ○
- 357 MIRFCS: An Ensemble of Filter Methods for Classification of Disease Data. **2022**, 205-217 ○
- 356 Learning Sparse Privacy-Preserving Representations for Smart Meters Data. **2021**, ○
- 355 An Analysis of Feature Selection Techniques For COVID-19 Detection on Chest X-Ray Data. **2021**,
- 354 A Supervised Feature Selection Method For Mixed-Type Data using Density-based Feature Clustering. **2021**,
- 353 When will I get out of the Hospital? Modeling Length of Stay using Comorbidity Networks. **2021**, 38, 1150-1184
- 352 Mutual Information-Based Time Window Adaptation for Improving Motor Imagery-Based BCI. **2021**,
- 351 Capacity Learning for Communication Systems over Power Lines. **2021**,
- 350 Design of Short Blocklength Wiretap Channel Codes: Deep Learning and Cryptography Working Hand in Hand. **2021**, 1
- 349 A modified phase transfer entropy for cross-frequency directed coupling estimation in brain network. **2021**, 2021, 27-30
- 348 A novel information changing rate and conditional mutual information-based input feature selection method for artificial intelligence drought prediction models. 1
- 347 Magnesium Ions Moderate Calcium-Induced Calcium Release in Cardiac Calcium Release Sites by Binding to Ryanodine Receptor Activation and Inhibition Sites.. **2021**, 12, 805956 ○
- 346 High Dimensional Bayesian Optimization for Analog Integrated Circuit Sizing Based on Dropout and gm/ID Methodology. **2022**, 1-1
- 345 Quantifying the non-linear dependence of energetic electron fluxes in the Earth's radiation belts with radial diffusion drivers. **2022**, 40, 37-53 ○
- 344 Using mutual information to measure time lags from nonlinear processes in astronomy. **2022**, 4,
- 343 An exactly valid and distribution-free statistical significance test for correlations between time series. ○
- 342 Optimization of fuel formulation using adaptive learning and artificial intelligence. **2022**, 27-45
- 341 Tensors for neuroimaging. **2022**, 427-482 ○

- 340 Discovery of signatures of fatal neonatal illness in vital signs using highly comparative time-series analysis.. **2022**, 5, 6 1
- 339 A Novel Feature-Based SHM Assessment and Predication Approach for Robust Evaluation of Damage Data Diagnosis Systems. 1 1
- 338 Dependence. **2022**, 49-86
- 337 Inferring a Property of a Large System from a Small Number of Samples.. **2022**, 24,
- 336 A complex network approach to study the extreme precipitation patterns in a river basin.. **2022**, 32, 013113 1
- 335 Mutual Information Scaling for Tensor Network Machine Learning.. **2022**, 3, 0
- 334 Machine Learning Determination of the Twist Angle of Bilayer Graphene by Raman Spectroscopy: Implications for van der Waals Heterostructures. **2022**, 5, 1356-1366 5
- 333 Parametric Copula-GP model for analyzing multidimensional neuronal and behavioral relationships.. **2022**, 18, e1009799 0
- 332 Inferring causal relations from observational long-term carbon and water fluxes records.. **2022**, 12, 1610 0
- 331 Three-Dimensional Convolutional Neural Network-Based Prediction of Epidermal Growth Factor Receptor Expression Status in Patients With Non-Small Cell Lung Cancer.. **2022**, 12, 772770 0
- 330 Wave packet dynamics in an harmonic potential disturbed by disorder: Entropy, uncertainty, and vibrational revivals.. **2022**, 156, 054303 0
- 329 Dimensionality reduction in machine learning for nonadiabatic molecular dynamics: Effectiveness of elemental sublattices in lead halide perovskites.. **2022**, 156, 054110 3
- 328 Statistical Dependence: Beyond Pearson's ρ **2022**, 37, 2
- 327 HRel: Filter pruning based on High Relevance between activation maps and class labels.. **2021**, 147, 186-197 0
- 326 Probabilistic electric load forecasting through Bayesian Mixture Density Networks. **2022**, 309, 118341 0
- 325 Infrared and visible fusion imaging via double-layer fusion denoising neural network. **2022**, 123, 103433 0
- 324 QtAC: An R-package for analyzing complex systems development in the framework of the adaptive cycle metaphor. **2022**, 466, 109860 1
- 323 Monitoring the propagation of mechanical discontinuity using data-driven causal discovery and supervised learning. **2022**, 170, 108791 0

322	Split & merge net: A dynamic masking network for multi-task attention. 2022 , 126, 108551	1
321	Nearest Neighbor Density Functional Estimation from Inverse Laplace Transform. 2022 , 1-1	
320	Introduction. 2022 , 1-41	
319	Network Analysis of Time Series: Novel Approaches to Network Neuroscience.. 2021 , 15, 787068	2
318	Forecasting thermal parameters for ultra-high voltage transformers using long- and short-term time-series network with conditional mutual information.	1
317	MIAMI: Mutual Information-based Analysis of Multiplex Imaging data.	0
316	Machine Learning-based Urban Canyon Path Loss Prediction using 28 GHz Manhattan Measurements. 2022 , 1-1	1
315	Network Generalization Prediction for Safety Critical Tasks in Novel Operating Domains. 2022 ,	0
314	Satellite Telemetry Data Anomaly Detection Using Causal Network and Feature-Attention-Based LSTM. 2022 , 71, 1-21	13
313	Molecular Insights into Phosphorylation-Induced Allosteric Conformational Changes in a β -Adrenergic Receptor.. 2022 ,	1
312	Wildfire-atmosphere interaction index for extreme-fire behaviour. 2022 , 22, 509-522	1
311	Assessment of AUC and fold change for precision medicine.	
310	Feature Construction and Identification of Convective Wind from Doppler Radar Data. 2022 , 36, 79-92	
309	Virtual intracranial EEG signals reconstructed from MEG with potential for epilepsy surgery.. 2022 , 13, 994	1
308	Linear and Nonlinear Effects in Connectedness Structure: Comparison between European Stock Markets.. 2022 , 24,	0
307	Using amino acids co-occurrence matrices and explainability model to investigate patterns in dengue virus proteins.. 2022 , 23, 80	0
306	Neuromorphic Architecture Accelerated Automated Seizure Detection in Multi-Channel Scalp EEG.. 2022 , 22,	2
305	The impact of COVID-19 on cryptocurrency markets: A network analysis based on mutual information.. 2022 , 17, e0259869	0

304	Transcerebral information coordination in directional hippocampus-prefrontal cortex network during working memory based on bimodal neural electrical signals. 1	
303	Self-organization and information transfer in Antarctic krill swarms.. 2022 , 289, 20212361	
302	A Predictive Model for Estimating the TBM Penetration Rate Based on Hybrid ICA-ANN and DEA-AHP Algorithms. 1	
301	NGS Diagnosis for Patients with Inherited Diseases: AI-Assisted Variant Prioritization (Preprint).	
300	Embedding entropy: a nonlinear measure of dynamical causality.. 2022 , 19, 20210766	0
299	Early lock-in of structured and specialised information flows during neural development.. 2022 , 11,	0
298	Towards a Data-Driven Estimation of Resilience in Networked Dynamical Systems: Designing a Versatile Testbed. 2022 , 2,	2
297	Impact of a CE-Marked Medical Software Sensor on COVID-19 Pandemic Progression Prediction: a Register Study Using Machine Learning Methods.. 2022 ,	
296	Behavioural Classification of Cattle Using Neck-Mounted Accelerometer-Equipped Collars.. 2022 , 22,	1
295	Pushing the limits of functionality-multiplexing capability in metasurface design based on statistical machine learning.. 2022 , e2110022	20
294	Large-scale Kernelized Granger Causality (lsKGC) for inferring topology of directed graphs in brain networks. 2022 ,	
293	Inferring functional relations from synthetic fMRI data using large-scale Nonlinear Granger Causality (lsNGC). 2022 ,	
292	GTT: Leveraging data characteristics for guiding the tensor train decomposition. 2022 , 102047	
291	On supervised learning to model and predict cattle weight in precision livestock breeding. 2022 , 195, 106706	0
290	Exploring directed network connectivity in complex systems using large-scale augmented Granger causality (lsAGC). 2022 ,	
289	Anomaly detection and early warning via a novel multiblock-based method with applications to thermal power plants. 2022 , 193, 110979	0
288	Biclustering high-frequency financial time series based on information theory.	
287	PDBcor: An automated correlation extraction calculator for multi-state protein structures.. 2021 ,	0

- 286 Investigation of large-scale extended Granger causality (lsXGC) on synthetic functional MRI data. **2022,**
- 285 The Role of Copy Number Variants in Gene Co-Expression Patterns for Luminal B Breast Tumors.. **2022, 13, 806607** ○
- 284 What Affects Emotional Well-Being during Travel? Identifying the Factors by Maximal Information Coefficient.. **2022, 19,**
- 283 A Computational Framework for Modeling Biobehavioral Rhythms from Mobile and Wearable Data Streams. **2022, 13, 1-27** ○
- 282 pyCLAMs: An integrated Python toolkit for classifiability analysis. **2022, 18, 101007**
- 281 Field-aware attentive neural factorization with fuzzy mutual information for company investment valuation. **2022, 600, 43-58** ○
- 280 KM-MIC: An improved maximum information coefficient based on K-Medoids clustering. **2022, 111, 106418** ○
- 279 Information Theoretic-based Feature Selection (IFS) for Machine Learning. **2021,**
- 278 ACAV100M: Automatic Curation of Large-Scale Datasets for Audio-Visual Video Representation Learning. **2021,** 3
- 277 Embedded acoustic fault monitoring for water pumps. **2021,**
- 276 Cyber-Physical LPG Debutanizer Distillation Columns: Machine-Learning-Based Soft Sensors for Product Quality Monitoring. **2021, 11, 11790** ○
- 275 A Fast Method for Detecting Interdependence between Time Series and Its Directionality. **2021, 31,**
- 274 Which Features of Postural Sway are Effective in Distinguishing Parkinson's Disease Patients from Controls? An Experimental Investigation. **2021,**
- 273 Storylines of weather-induced crop failure events under climate change. **2021, 12, 1503-1527** 3
- 272 Symmetries and phase diagrams with real-space mutual information neural estimation.. *Physical Review E*, **2021, 104, 064106** 2.4 1
- 271 Impact of a Conformité Européenne (CE) Certification-Marked Medical Software Sensor on COVID-19 Pandemic Progression Prediction: Register-Based Study Using Machine Learning Methods (Preprint). ○
- 270 Detecting Unbiased Associations in Large Data Sets.. **2021,** ○
- 269 Machine-Learned Light-Field Camera that Reads Facial Expression from High-Contrast and Illumination Invariant 3D Facial Images. 2100182 1

268	MobileNet CNN Yaklaşımıyla Zellik Sektöründe Yöntemleri Kullanarak Araştırmalarını Sıraladık. 618-628	
267	A framework for causal discovery in non-intervenable systems.. 2021 , 31, 123128	0
266	Interaction-Aware Sensitivity Analysis for Aerodynamic Optimization Results using Information Theory. 2021 ,	0
265	Multivariable Causal Analysis of Nonlinear Dynamical Systems using Convergent Cross Mapping. 2021 ,	
264	Significance of the Chemical Environment of an Element in Nonadiabatic Molecular Dynamics: Feature Selection and Dimensionality Reduction with Machine Learning.. 2021 , 12, 12026-12032	5
263	Machine Learning-Based Epileptic Seizure Detection Methods Using Wavelet and EMD-Based Decomposition Techniques: A Review.. 2021 , 21,	0
262	A Two-Stage Method Based on Multiobjective Differential Evolution for Gene Selection.. 2021 , 2021, 5227377	
261	Supervised and unsupervised learning to classify scoliosis and healthy subjects based on non-invasive rasterstereography analysis.. 2021 , 16, e0261511	1
260	Fourier-domain transfer entropy spectrum. 2021 , 3,	0
259	MKG: a mutual information based method to infer single cell gene regulatory network. 2021 ,	0
258	The Stanford Drone Dataset is More Complex than We Think: An Analysis of Key Characteristics. 2022 , 1-1	
257	Brain Connectivity Changes During Bimanual and Rotated Motor Imagery.. 2022 , 10, 2100408	0
256	Quantile transfer entropy: Measuring the heterogeneous information transfer of nonlinear time series. 2022 , 106505	0
255	MAVE-NN: learning genotype-phenotype maps from multiplex assays of variant effect.. 2022 , 23, 98	3
254	COVID-19 Open-Data a global-scale spatially granular meta-dataset for coronavirus disease.. 2022 , 9, 162	1
253	Ag-Bi Charge Redistribution Creates Deep Traps in Defective CsAgBiBr: Machine Learning Analysis of Density Functional Theory.. 2022 , 3645-3651	3
252	Information dynamics of price and liquidity around the 2017 Bitcoin markets crash.. 2022 , 32, 043123	
251	Finding contrasting patterns in rhythmic properties between prose and poetry. 2022 , 127387	0

250 Presentation_1.pdf. **2018,**

249 Table_1.xlsx. **2020,**

248 Table_2.xlsx. **2020,**

247 Data_Sheet_1.docx. **2019,**

246 Streaming Machine Learning and Online Active Learning for Automated Visual Inspection.. **2022,** 55, 277-282 2

245 A Practical Root Cause Diagnosis Framework for Quality-Related Faults in Manufacturing Processes With Irregular Sampling Measurements. **2022,** 71, 1-9 2

244 On the Interpretability of Machine Learning Regression for Path-Loss Prediction of Millimeter-Wave Links. 0

243 A Collaborative Correlation-Matching Network for Multimodality Remote Sensing Image Classification. **2022,** 60, 1-18

242 Complex Mutual Information-based Least Dependent Component Analysis for ISAR Imaging of Multiple Targets in a Formation Flight. **2022,** 1-1

241 Mapping synchronization properties in a three-element laterally coupled laser array. **2022,** 30, 17858 0

240 Phase-based causality analysis with partial mutual information from mixed embedding. **2022,** 32, 053111

239 Bounds on mutual information of mixture data for classification tasks.

238 A Stimuli-Relevant Directed Dependency Index for Time Series. **2022,**

237 Relation Discovery in Nonlinearly Related Large-Scale Settings. **2022,**

236 Ubilung: Multi-Modal Passive-Based Lung Health Assessment. **2022,**

235 Deep Deterministic Independent Component Analysis for Hyperspectral Unmixing. **2022,** 0

234 Statistical method based on dissimilarity of variable correlations for multimode chemical process monitoring with transitions. **2022,** 162, 649-662 0

233 Universal antigen encoding of T cell activation from high-dimensional cytokine dynamics.. **2022,** 376, 880-884 2

- 232 Point Mutations in SARS-CoV-2 Variants Induce Long-Range Dynamical Perturbations in Neutralizing Antibodies. 1
- 231 Unsupervised Two-Stage Root-Cause Analysis with Transfer Learning for Integrated Systems. **2022**, 1-1
- 230 Computational analysis of 4-1BB-induced NF κ B signaling suggests improvements to CAR cell design. 0
- 229 Information Dynamics of Electric Field Intensity before and during the COVID-19 Pandemic. **2022**, 24, 726
- 228 Machine learning enables accurate prediction of breast cancer five-year survival using somatic genomic variants.
- 227 How to Compute Suitable Vicinity Parameter and Sampling Time of Recurrence Analysis.
- 226 Constellation Design for Non-Coherent Fast-Forward Relays to Mitigate Full-Duplex Jamming Attacks. **2022**, 1-1
- 225 Alzheimer's Disease Diagnosis and Biomarker Analysis Using Resting-State Functional MRI Functional Brain Network With Multi-Measures Features and Hippocampal Subfield and Amygdala Volume of Structural MRI. 14, 0
- 224 Socioeconomic biases in urban mixing patterns of US metropolitan areas. **2022**, 11, 0
- 223 Pareto-Optimal Clustering with the Primal Deterministic Information Bottleneck. **2022**, 24, 771 1
- 222 Deep Neural Network and Transfer Learning for Accurate Hardware-Based Zero-Day Malware Detection. **2022**, 0
- 221 Information thermodynamics of encoding and encoders. **2022**, 32, 063109 0
- 220 Conditional Recurrence Plots for the investigation of sawteeth pacing with RF modulator.
- 219 Urbanization and aridity mediate distinct salinity response to floods in rivers and streams across the contiguous United States. **2022**, 220, 118664 0
- 218 Prediction of pathological complete response to neoadjuvant chemotherapy in breast cancer using radiomics of pretreatment dynamic contrast-enhanced MRI. **2022**, 92, 19-25 1
- 217 Lumos: towards Better Video Streaming QoE through Accurate Throughput Prediction. **2022**, 1
- 216 A novel quality-related process monitoring method for multi-unit industrial processes under incomplete data conditions.
- 215 A Data-Driven Semi-Supervised Soft-Sensor Method: Application on an Industrial Cracking Furnace. 4, 1

214	Effects of Aversive Classical Conditioning on Pupil Dilation and Microsaccades.	
213	Automatic construction of a dictionary of variant forms of Chinese characters.	
212	MIAMI: Mutual Information-based Analysis of Multiplex Imaging data.	0
211	Quantifying information of intracellular signaling: progress with machine learning.	0
210	NoLiTiA: An Open-Source Toolbox for Non-linear Time Series Analysis. 16,	0
209	Causal Inference in Time Series in Terms of Rényi Transfer Entropy. 2022 , 24, 855	1
208	Replay spoof detection using energy separation based Instantaneous Frequency estimation from quadrature and in-phase components. 2022 , 101423	0
207	A multigroup fault detection and diagnosis framework for large-scale industrial systems using nonlinear multivariate analysis. 2022 , 206, 117859	
206	Nowcasting of Amplitude Ionospheric Scintillation Based on Machine Learning Techniques. 2022 , 1-12	1
205	Estimating Information-Theoretic Quantities. 2022 , 1347-1358	
204	Applications of Information Theory to Analysis of Neural Data. 2022 , 222-226	
203	Metric Space Analysis of Neural Information Flow. 2022 , 2029-2032	
202	Secure Communications in Line-of-Sight Scenarios by Rotation-based Secret Key Generation. 2022 ,	
201	Siamese Learning-Based monarch Butterfly Localization. 2022 ,	
200	Exploring Non-Linear Dependencies in Atmospheric Data with Mutual Information. 2022 , 13, 1046	
199	Optimizing parameters of information-theoretic correlation measurement for multi-channel time-series datasets in gravitational-wave detectors. 2022 , 2022,	0
198	Community detection based process decomposition and distributed monitoring for large-scale processes.	0
197	High-Order Conditional Mutual Information Maximization for dealing with High-Order Dependencies in Feature Selection. 2022 , 108895	1

- 196 Advances in human intracranial electroencephalography research, guidelines and good practices. **2022**, 119438 1
- 195 Network structure from a characterization of interactions in complex systems. **2022**, 12, 0
- 194 Conformational and Thermodynamic Differences Underlying Wild-type and Mutant YEATS Domain Specificity for Epigenetic Marks.
- 193 Improving deep learning on point cloud by maximizing mutual information across layers. **2022**, 131, 108892 1
- 192 Data privacy and utility trade-off based on mutual information neural estimator. **2022**, 207, 118012
- 191 A new nonlinear causality test based on single multiplicative neuron model artificial neural network: a case study for Turkey's macroeconomic indicators.
- 190 Identification of causal relationships in non-stationary time series with an information measure: Evidence for simulated and financial data.
- 189 Correlation-Based Feature Selection to Identify Functional Dynamics in Proteins. 3
- 188 The fidelity of genetic information transfer with aging segregates according to biological processes. 0
- 187 MACAW: An Accessible Tool for Molecular Embedding and Inverse Molecular Design. 1
- 186 A filter-based feature selection approach for the prediction of Alzheimer's diseases through audio classification. **2022**,
- 185 Partial Information Decomposition via Deficiency for Multivariate Gaussians. **2022**,
- 184 Smoothed InfoNCE: Breaking the log N Curse without Overshooting. **2022**,
- 183 Understanding Deep Neural Networks Using Sliced Mutual Information. **2022**,
- 182 TCMI: a non-parametric mutual-dependence estimator for multivariate continuous distributions. 0
- 181 Ca²⁺ imaging of self and other in medial prefrontal cortex during social dominance interactions in a tube test. **2022**, 119, 0
- 180 Mutual information in changing environments: Nonlinear interactions, out-of-equilibrium systems, and continuously varying diffusivities. **2022**, 106,
- 179 Detecting Anomalies in Satellite Telemetry Data based on Causal Multivariate Temporal Convolutional Network. **2022**,

- 178 Analysis of Score-Level Fusion Rules for Deepfake Detection. **2022**, 12, 7365
- 177 Dictionary Learning-Based Multichannel ECG Reconstruction Using Compressive Sensing. **2022**, 22, 16359-16369
- 176 Comprehensive Monitoring of Complex Industrial Processes with Multiple Characteristics. **2022**, 2022, 1-18
- 175 Entropy-Based Discovery of Summary Causal Graphs in Time Series. **2022**, 24, 1156
- 174 Combining Deep Phenotyping of Serum Proteomics and Clinical Data via Machine Learning for COVID-19 Biomarker Discovery. **2022**, 23, 9161 1
- 173 Fault Root Diagnosis of Industrial Process Based on Random Forest-Partial Symbol Transfer Entropy. **2022**,
- 172 Frequency Stability Prediction of Power Systems Using Vision Transformer and Copula Entropy. **2022**, 24, 1165
- 171 Computational analysis of 4-1BB-induced NFB signaling suggests improvements to CAR cell design. **2022**, 20,
- 170 Information Theoretic Methods for Variable Selection: A Review. **2022**, 24, 1079
- 169 Automated detection of panic disorder based on multimodal physiological signals using machine learning. 0
- 168 Rejoinder: Multi-scale Fisher independence test for multivariate dependence. **2022**, 109, 605-609 0
- 167 A Two-Phase Population-and-Subspace-Feature Based Multi-Classification Model to Improve Chronic Disease Diagnosis.
- 166 A Fast and Efficient Ensemble Transfer Entropy and Applications in Neural Signals. **2022**, 24, 1118
- 165 Causal networks reveal the response of Chinese stocks to modern crises. **2022**, 609, 1670-1693
- 164 Meteorological driving forces of reference evapotranspiration and their trends in California. **2022**, 849, 157823 2
- 163 Analyzing the Relationship between Community and Design Smells in Open-Source Software Projects: An Empirical Study. **2022**, 0
- 162 Mutual information map as a new way for exploring the independence of chemically meaningful solutions in two-component analytical data. **2022**, 1227, 340330 0
- 161 Early RTL delay prediction using neural networks. **2022**, 94, 104671 0

160	Spatio-temporal analysis of PM2.5 and policies in Northwestern South America. 2022 , 852, 158504	0
159	An improved feature selection method for classification on incomplete data: Non-negative latent factor-incorporated duplicate MIC. 2023 , 212, 118654	0
158	An effectiveness analysis of transfer learning for the concept drift problem in malware detection. 2023 , 212, 118724	0
157	Kernel Based Multiscale Partial Renyi Transfer Entropy and its Applications.	0
156	Application of offset estimator of differential entropy and mutual information with multivariate data. 2022 , 3,	0
155	Laminar to Turbulent Transition in Terms of Information Theory.	0
154	Image Processing Perspectives of X-Ray Fluorescence Data in Cultural Heritage Sciences. 2022 , 1-12	0
153	Quantum machine learning for chemistry and physics. 2022 , 51, 6475-6573	5
152	Evidential Regression by Synthesizing Feature Selection and Parameters Learning. 2022 , 87-95	0
151	A Deeper Dive Into What Deep Spatiotemporal Networks Encode: Quantifying Static vs. Dynamic Information. 2022 ,	1
150	Alleviating Semantics Distortion in Unsupervised Low-Level Image-to-Image Translation via Structure Consistency Constraint. 2022 ,	1
149	Network inference combining mutual information rate and statistical tests. 2023 , 116, 106896	1
148	Attributed Graph Clustering with Double Contrastive Projector. 2022 ,	0
147	Tiny RNN Model with Certified Robustness for Text Classification. 2022 ,	0
146	MTE-MESS: An algorithm for multivariate non-stationary time series causal discovery. 2022 ,	0
145	Discriminative Mutual Information Estimation for the Design of Channel Capacity Driven Autoencoders. 2022 ,	0
144	Alcohol Intake Differentiates AD and LATE: A Telltale Lifestyle from Two Large-Scale Datasets.	0
143	Process decomposition and distributed fault detection of large-scale industrial processes. 2022 ,	0

142	Designing forecasting assistant of the Bitcoin price based on deep learning using the market sentiment analysis and multiple feature extraction.	0
141	Learned Practical Guidelines for Evaluating Conditional Entropy and Mutual Information in Discovering Major Factors of Response-vs.-Covariate Dynamics. 2022 , 24, 1382	0
140	Untangling Synergistic Effects of Intersecting Social Identities with Partial Information Decomposition. 2022 , 24, 1387	1
139	Genomic Prediction of Wheat Grain Yield Using Machine Learning. 2022 , 12, 1406	0
138	Describing UI Screenshots in Natural Language.	0
137	A Conditional Mutual Information Estimator for Mixed Data and an Associated Conditional Independence Test. 2022 , 24, 1234	0
136	A maximum entropy copula model for mixed data: representation, estimation and applications. 1-27	0
135	A method for extracting nonlinear structure based on measures of dependence.	0
134	Power production forecast for distributed wind energy systems using support vector regression.	0
133	Diagnosis of a Single-Nucleotide Variant in Whole-Exome Sequencing Data for Patients With Inherited Diseases: Machine Learning Study Using Artificial Intelligence Variant Prioritization. 2022 , 3, e37701	0
132	Multi-scale Fusion of Stretched Infrared and Visible Images. 2022 , 22, 6660	0
131	A data-driven explainable case-based reasoning approach for financial risk detection. 1-18	0
130	Generalism drives abundance: A computational causal discovery approach. 2022 , 18, e1010302	0
129	Prediction of Sea Surface Temperature by Combining Interdimensional and Self-Attention with Neural Networks. 2022 , 14, 4737	0
128	Offshore Application of Landslide Susceptibility Mapping using Gradient Boosted Decision Trees: A Gulf of Mexico Case Study.	0
127	Integrating implicit and explicit linguistic phenomena via multi-task learning for offensive language detection. 2022 , 109965	0
126	Tiered prediction models for port vessel emissions inventories.	0
125	A Novel Bidirectional Gated Recurrent Unit-Based Soft Sensor Modeling Framework for Quality Prediction in Manufacturing Processes. 2022 , 22, 18610-18619	2

- 124 Multiscale online-horizontal-visibility-graph correlation analysis of financial market. **2022**, 607, 128195 ○
- 123 Towards a Comprehensive Visual Quality Inspection for Industry 4.0*. **2022**, 55, 690-695 1
- 122 Data Integration Possibilities of Molecular and Clinical Data Fusion on the Example of Thyroid Cancer Diagnostics. **2022**, 23, 11880 ○
- 121 A Robust, Compact and Diverse Population Code for Competing Sounds in Auditory Cortex. ○
- 120 Towards universal methods for fake news detection. 1-39 ○
- 119 Development and validation of a type 2 diabetes machine learning classification model for clinical decision support framework. ○
- 118 Wind power forecasting in distribution networks using non-parametric models and regression trees. **2022**, 2, ○
- 117 Interaction networks from discrete event data by Poisson multivariate mutual information estimation and information flow with applications from gene expression data. **2022**, 7, ○
- 116 Investigating the effects of local weather, streamflow lag, and global climate information on 1-month-ahead streamflow forecasting by using XGBoost and SHAP: two case studies involving the contiguous USA. 1
- 115 Identifying predictors of analyst rating quality: An ensemble feature selection approach. **2022**, ○
- 114 Geometric Partition Entropy: Coarse-Graining a Continuous State Space. **2022**, 24, 1432 ○
- 113 Using mutual information to investigate non-linear correlation between AE index, ULF Pc5 wave activity and electron precipitation. 9, ○
- 112 Adaptation of Partial Mutual Information from Mixed Embedding to Discrete-Valued Time Series. **2022**, 24, 1505 1
- 111 Multiplex network infomax: Multiplex network embedding via information fusion. **2022**, ○
- 110 Recurrence flow measure of nonlinear dependence. ○
- 109 Diversity dependence is a ubiquitous phenomenon across Phanerozoic oceans. **2022**, 8, ○
- 108 A multiscale modeling method for therapeutic antibodies in ion exchange chromatography. ○
- 107 i-SISSO: Mutual information-based improved sure independent screening and sparsifying operator algorithm. **2022**, 116, 105442 ○

106	Learning low-dimensional generalizable natural features from retina using a U-net.	0
105	Homogenising Entropy Across Different Environmental Conditions: A Universally Applicable Method for Transforming Continuous Variables. 2022 , 1-1	0
104	Using Artificial Intelligence for COVID-19 Detection in Blood Exams: A Comparative Analysis. 2022 , 1-1	1
103	Research on Mutual Information Analysis in EEG Based on Different Entropy Measures. 2022 ,	0
102	Inference, Prediction, & Entropy-Rate Estimation of Continuous-Time, Discrete-Event Processes. 2022 , 24, 1675	0
101	Variational Monte Carlo Approach to Partial Differential Equations with Neural Networks.	0
100	Wide-ranging approach-based feature selection for classification.	0
99	Graph pooling via Dual-view Multi-level Infomax. 2022 , 110089	0
98	Robust and consistent measures of pattern separation based on information theory and demonstrated in the dentate gyrus.	0
97	Assessing the Added Value of Sentinel-1 PolSAR Data for Crop Classification. 2022 , 14, 5739	1
96	Identification of decompensation episodes in chronic heart failure patients based solely on heart sounds. 9,	0
95	Multiset multicover methods for discriminative marker selection. 2022 , 100332	0
94	Climate-informed monthly runoff prediction model using machine learning and feature importance analysis. 10,	0
93	Analysis of functional connectivity using machine learning and deep learning in multimodal data from patients with schizophrenia.	0
92	The Sentinel 2 MSI Spectral Mixing Space. 2022 , 14, 5748	0
91	NWP Feature Selection and GCN-based Ultra-short-term Wind Farm Cluster Power Forecasting Method. 2022 ,	0
90	Binary Gravitational Subspace Search for Outlier Detection in High Dimensional Data Streams. 2022 , 157-169	0
89	Detecting suspicious transactions in a virtual-currency-enabled online social network. 2023 , 211, 103555	0

- 88 A novel approach of full state tendency measurement for complex systems based on information causality and PageRank: A case study of a hydropower generation system. **2023**, 187, 109956 1
- 87 Functional Connectome of the Human Brain with Total Correlation. **2022**, 24, 1725 0
- 86 Cost-based feature selection for network model choice. 1-17 0
- 85 EVOLVEINFOMAX: An Unsupervised Learning Principle of Invariances for Nonlinear Dynamic Systems. **2022**, 61, 18004-18016 0
- 84 Variational inference of fractional Brownian motion with linear computational complexity. **2022**, 106, 0
- 83 Bundle Branch Block Classification Based on Two Leads ECG using Random Forest. **2022**, 0
- 82 Dopamine promotes head direction plasticity during orienting movements. **2022**, 612, 316-322 0
- 81 Dynamical information flow within the magnetosphere-ionosphere system during magnetic storms. 0
- 80 One-Dimensional Site Response Analysis: Model Error Estimation. 0
- 79 Impacts of Data Synthesis: A Metric for Quantifiable Data Standards and Performances. **2022**, 7, 178 0
- 78 Molecular Origins of Force-Dependent Protein Complex Stabilization during Bacterial Infections. 0
- 77 Association Measure and Compact Prediction for Chemical Process Data from an Information-Theoretic Perspective. **2022**, 10, 2659 0
- 76 A LASSO-Based Prediction Model for Child Influenza Epidemics: A Case Study of Shanghai, China. **2022**, 2022, 1-14 0
- 75 Permutation entropy and its variants for measuring temporal dependence. 0
- 74 What to Learn from a Few Visible Transitions Statistics?. **2022**, 12, 1
- 73 Heritability enrichment in context-specific regulatory networks improves phenotype-relevant tissue identification. 11, 0
- 72 Supervised learning approaches to modeling the pedestal density. 0
- 71 Skilled motor control of an inverted pendulum implies low entropy of states but high entropy of actions. **2023**, 19, e1010810 0

- 70 FIGCI: Flow-Based Information-Geometric Causal Inference. **2022**, 520-531 ○
- 69 Short Blocklength Wiretap Channel Codes via Deep Learning: Design and Performance Evaluation. **2023**, 1-1 ○
- 68 Estimating Prevalence and Characteristics of Statin Intolerance among High and Very High Cardiovascular Risk Patients in Germany (2017 to 2020). **2023**, 12, 705 ○
- 67 Gamma-band-based dynamic functional connectivity in pigeon entopallium during sample presentation in a delayed color matching task. ○
- 66 A Machine-learning Approach to Predict Missing Flux Densities in Multiband Galaxy Surveys. **2023**, 942, 91 ○
- 65 Estimation of Sugar Content in Wine Grapes via In Situ VNIRSWIR Point Spectroscopy Using Explainable Artificial Intelligence Techniques. **2023**, 23, 1065 ○
- 64 InfoMax Classification-Enhanced Learnable Network for Few-Shot Node Classification. **2023**, 12, 239 ○
- 63 Computational methods to study information processing in neural circuits. **2023**, 21, 910-922 ○
- 62 A high-dimensional feature selection method based on modified Gray Wolf Optimization. **2023**, 110031 ○
- 61 Earthquake fatality prediction based on hybrid feature importance assessment: a case study in Yunnan Province, China. ○
- 60 Deep learning from physicochemical information of concrete with an artificial language for property prediction and reaction discovery. **2023**, 190, 106870 ○
- 59 A mathematical analysis about the geo-temporal characterization of the multi-class maliciousness of an IP address. ○
- 58 Filterbank Secret Key Generation Rates in Multipath Channels. **2022**, ○
- 57 Privacy-Preserving Feature Coding for Machines. **2022**, ○
- 56 Functional Connectivity Analysis of Neuronal Interactions. **2023**, 218, 927-936 ○
- 55 Energy and Information Fluxes at Upper Ocean Density Fronts. **2023**, 8, 17 ○
- 54 Self-Similar Growth and Synergistic Link Prediction in Technology-Convergence Networks: The Case of Intelligent Transportation Systems. **2023**, 7, 109 ○
- 53 Incorporating Multiple Knowledge Sources for Targeted Aspect-based Financial Sentiment Analysis. ○

- 52 A hybrid deep learning framework for air quality prediction with spatial autocorrelation during the COVID-19 pandemic. **2023**, 13, 1
- 51 Analysis of point-of-care non-invasive Hb monitoring technique using NIR Spectrophotometry with standard invasive techniques. 0
- 50 A generalized multi-aspect distance metric for mixed-type data clustering. **2023**, 138, 109353 0
- 49 Coupled Hidden Markov Models for Estimating Multivariate Transfer Entropy in Neural Mass Models: A Simulation Study. **2022**, 0
- 48 Privacy-Preserving Adversarial Network (PPAN) for Continuous non-Gaussian Attributes. **2022**, 0
- 47 Non-parametric Ensemble Empirical Mode Decomposition for extracting weak features to identify bearing defects. **2023**, 211, 112615 0
- 46 Can NeuroIS improve executive employee recruitment? Classifying levels of executive functions using resting state EEG and data science methods. **2023**, 168, 113930 0
- 45 sEMG Signal-Based Lower Limb Movements Recognition Using Tunable Q-Factor Wavelet Transform and Kraskov Entropy. **2023**, 44, 100773 0
- 44 ARLO: A framework for Automated Reinforcement Learning. **2023**, 224, 119883 0
- 43 Benchmarking explanation methods for mental state decoding with deep learning models. **2023**, 273, 120109 0
- 42 Pandemic vulnerability index of US cities: A hybrid knowledge-based and data-driven approach. **2023**, 95, 104570 0
- 41 Characterization and predictive modeling of a trajectory-oriented dual-mode scramjet combustor. **2023**, 35, 026108 0
- 40 Predicting the superconducting critical temperature in transition metal carbides and nitrides using machine learning. **2023**, 605, 1354209 0
- 39 A novel feature attention mechanism for improving the accuracy and robustness of runoff forecasting. **2023**, 618, 129200 0
- 38 An open source Python library for environmental isotopic modelling. **2023**, 13, 0
- 37 Environmental factors influencing DDT/DDE spatial distribution in an agricultural drainage system determined by using machine learning techniques. 0
- 36 Fast underwater image enhancement based on a generative adversarial framework. 9, 0
- 35 Velocity Offset Between Emission and Absorption Lines Might Be an Effective Indicator of a Dual Core System. **2023**, 944, 4 0

- 34 A cofunctional grouping-based approach for non-redundant feature gene selection in unannotated single-cell RNA-seq analysis. **2023**, 24, ○
- 33 Understanding Concept Identification as Consistent Data Clustering Across Multiple Feature Spaces. **2022**, ○
- 32 Efficacy of information transmission in cellular communication. **2023**, 5, ○
- 31 Which Vegetation Index? Benchmarking Multispectral Metrics to Hyperspectral Mixture Models in Diverse Cropland. **2023**, 15, 971 ○
- 30 An Information-Theoretic Perspective on Intrinsic Motivation in Reinforcement Learning: A Survey. **2023**, 25, 327 ○
- 29 Quick Estimate of Information Decomposition for Text Style Transfer. **2023**, 25, 322 ○
- 28 Calibrating Cosmological Simulations with Implicit Likelihood Inference Using Galaxy Growth Observables. **2023**, 944, 67 ○
- 27 Concrete Autoencoder for the Reconstruction of Sea Temperature Field from Sparse Measurements. **2023**, 11, 404 ○
- 26 Conformational and Thermodynamic Differences Underlying Wild-Type and Mutant Eleven-Nineteen-Leukemia YEATS Domain Specificity for Epigenetic Marks. **2023**, 63, 1229-1238 ○
- 25 Detecting Nonlinear Interactions in Complex Systems: Application in Financial Markets. **2023**, 25, 370 ○
- 24 Efficient quantization of painting images by relevant colors. **2023**, 13, ○
- 23 Criticality supports cross-frequency cortical-thalamic information transfer during conscious states. ○
- 22 Transfer Entropy-Based Automated Fault Traversal and Root Cause Identification in Complex Nonlinear Industrial Processes. **2023**, 62, 4002-4018 ○
- 21 Multilingual Fake News Detection with Satire. **2023**, 392-402 ○
- 20 Selecting embedding delays: An overview of embedding techniques and a new method using persistent homology. **2023**, 33, 032101 ○
- 19 Pattern Recognition in Microtrading Behaviors Preceding Stock Price Jumps: A Study Based on Mutual Information for Multivariate Time Series. ○
- 18 Effective RNN-Based Forecasting Methodology Design for Improving Short-Term Power Load Forecasts: Application to Large-Scale Power-Grid Time Series. **2023**, 68, 101984 ○
- 17 Gene regulation network inference using k-nearest neighbor-based mutual information estimation: revisiting an old DREAM. **2023**, 24, ○

- 16 A robust estimator of mutual information for deep learning interpretability. **2023**, 4, 025006
- 15 Comparison of discretization strategies for the model-free information-theoretic assessment of short-term physiological interactions. **2023**, 33, 033127
- 14 Self-distilled Pruning of Deep Neural Networks. **2023**, 655-670
- 13 A Survey on Feature Selection Techniques Based on Filtering Methods for Cyber Attack Detection. **2023**, 14, 191
- 12 Fast Prediction for Suspect Candidates from Criminal Networks. **2023**,
- 11 Combining Natural Language and Machine Learning for Predicting Survey Responses of Social Constructs in a Dyad. **2022**,
- 10 Ensemble machine learning regression model based predictive framework for Parkinson's UPDRS motor score prediction from speech data.
- 9 A Multi-Parameter Fusion Method for Cuffless Continuous Blood Pressure Estimation Based on Electrocardiogram and Photoplethysmogram. **2023**, 14, 804
- 8 A causality-based learning approach for discovering the underlying dynamics of complex systems from partial observations with stochastic parameterization. **2023**, 449, 133743
- 7 Optimizing Remote Sensing Image Scene Classification Through Brain-Inspired Feature Bias Estimation and Semantic Representation Analysis. **2023**, 11, 34764-34771
- 6 Spike timing-dependent plasticity under imbalanced excitation and inhibition reduces the complexity of neural activity. 17,
- 5 Computational insights into ligand-induced G protein and β -arrestin signaling of the dopamine D1 receptor.
- 4 Machine learning-driven probabilistic seismic demand model with multiple intensity measures and applicability in seismic fragility analysis for nuclear power plants. **2023**, 171, 107966
- 3 A Data-Driven Two-Phase Multi-Split Causal Ensemble Model for Time Series. **2023**, 15, 982
- 2 State-Based Decoding of Continuous Hand Movements Using EEG Signals. **2023**, 11, 42764-42778
- 1 Nonlinear dynamic analysis of meteorological variables for Ha'il region, Saudi Arabia, for the period 1990-2022. **2023**, 51, 231-242