List of Publications by Year in descending order

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<u>Ρλιλτ Κ Π</u>ε

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Immunoinformatics: an integrated scenario. Immunology, 2010, 131, 153-168. | 4.4 | 116 |
| 2 | Feature analysis: Neural network and fuzzy set theoretic approaches. Pattern Recognition, 1997, 30, 1579-1590. | 8.1 | 90 |
| 3 | Obesity: An Immunometabolic Perspective. Frontiers in Endocrinology, 2016, 7, 157. | 3.5 | 77 |
| 4 | Unsupervised feature selection using a neuro-fuzzy approach. Pattern Recognition Letters, 1998, 19, 997-1006. | 4.2 | 75 |
| 5 | Divisive Correlation Clustering Algorithm (DCCA) for grouping of genes: detecting varying patterns in expression profiles. Bioinformatics, 2008, 24, 1359-1366. | 4.1 | 56 |
| 6 | Comparing methods for metabolic network analysis and an application to metabolic engineering. Gene, 2013, 521, 1-14. | 2.2 | 47 |
| 7 | Estimating gene expression from DNA methylation and copy number variation: A deep learning regression model for multi-omics integration. Genomics, 2020, 112, 2833-2841. | 2.9 | 36 |
| 8 | Wnt signal transduction pathways: modules, development and evolution. BMC Systems Biology, 2016, 10, 44. | 3.0 | 23 |
| 9 | Selection of genes mediating certain cancers, using a neuro-fuzzy approach. Neurocomputing, 2014, 133, 122-140. | 5.9 | 22 |
| 10 | Catestatin improves insulin sensitivity by attenuating endoplasmic reticulum stress: In vivo and in silico validation. Computational and Structural Biotechnology Journal, 2020, 18, 464-481. | 4.1 | 21 |
| 11 | Average correlation clustering algorithm (ACCA) for grouping of co-regulated genes with similar pattern of variation in their expression values. Journal of Biomedical Informatics, 2010, 43, 560-568. | 4.3 | 20 |
| 12 | Analyzing methods for path mining with applications in metabolomics. Gene, 2014, 534, 125-138. | 2.2 | 18 |
| 13 | Metabolic pathway engineering: Perspectives and applications. Computer Methods and Programs in Biomedicine, 2020, 192, 105436. | 4.7 | 18 |
| 14 | Unsupervised feature extraction using neuro-fuzzy approach. Fuzzy Sets and Systems, 2002, 126, 277-291. | 2.7 | 14 |
| 15 | Fuzzy Correlated Association Mining: Selecting altered associations among the genes, and some possible marker genes mediating certain cancers. Applied Soft Computing Journal, 2016, 38, 587-605. | 7.2 | 13 |
| 16 | An algorithm for modularization of MAPK and calcium signaling pathways: Comparative analysis among different species. Journal of Biomedical Informatics, 2007, 40, 726-749. | 4.3 | 12 |
| 17 | Incorporation of enzyme concentrations into FBA and identification of optimal metabolic pathways. BMC Systems Biology, 2008, 2, 65. | 3.0 | 12 |
| 18 | PyPredT6: A python-based prediction tool for identification of Type VI effector proteins. Journal of Bioinformatics and Computational Biology, 2019, 17, 1950019. | 0.8 | 11 |

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|----|---|------|-----------|
| 19 | Interval based fuzzy systems for identification of important genes from microarray gene expression data: Application to carcinogenic development. Journal of Biomedical Informatics, 2009, 42, 1022-1028. | 4.3 | 10 |
| 20 | Linguistic recognition system for identification of some possible genes mediating the development of lung adenocarcinoma. Information Fusion, 2009, 10, 260-269. | 19.1 | 10 |
| 21 | OCDD: an obesity and co-morbid disease database. BioData Mining, 2017, 10, 33. | 4.0 | 10 |
| 22 | Exploring the Altered Dynamics of Mammalian Central Carbon Metabolic Pathway in Cancer Cells: A Classical Control Theoretic Approach. PLoS ONE, 2015, 10, e0137728. | 2.5 | 10 |
| 23 | Deciphering the cause of evolutionary variance within intrinsically disordered regions in human proteins. Journal of Biomolecular Structure and Dynamics, 2017, 35, 233-249. | 3.5 | 9 |
| 24 | Gradient Descent Optimization in Gene Regulatory Pathways. PLoS ONE, 2010, 5, e12475. | 2.5 | 8 |
| 25 | Computational neuroscience and neuroinformatics: Recent progress and resources. Journal of Biosciences, 2018, 43, 1037-1054. | 1.1 | 8 |
| 26 | CNV-CH: A Convex Hull Based Segmentation Approach to Detect Copy Number Variations (CNV) Using Next-Generation Sequencing Data. PLoS ONE, 2015, 10, e0135895. | 2.5 | 8 |
| 27 | CASSL: A cell-type annotation method for single cell transcriptomics data using semi-supervised learning. Applied Intelligence, 2023, 53, 1287-1305. | 5.3 | 7 |
| 28 | MODELING THE OPTIMAL CENTRAL CARBON METABOLIC PATHWAYS UNDER FEEDBACK INHIBITION USING FLUX BALANCE ANALYSIS. Journal of Bioinformatics and Computational Biology, 2012, 10, 1250019. | 0.8 | 6 |
| 29 | Identification of certain cancer-mediating genes using Gaussian fuzzy cluster validity index. Journal of Biosciences, 2015, 40, 741-754. | 1.1 | 6 |
| 30 | An integrated pathway system modeling of Saccharomyces cerevisiae HOG pathway: a Petri net based approach. Molecular Biology Reports, 2013, 40, 1103-1125. | 2.3 | 5 |
| 31 | Disease Co-Morbidity and the Human Wnt Signaling Pathway: A Network-Wise Study. OMICS A Journal of Integrative Biology, 2013, 17, 318-337. | 2.0 | 5 |
| 32 | A Model for Distributed Processing and Analyses of NGS Data under Map-Reduce Paradigm. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 827-840. | 3.0 | 5 |
| 33 | Comparative Analysis of Cluster Validity Indices in Identifying Some Possible Genes Mediating Certain Cancers. Molecular Informatics, 2013, 32, 347-354. | 2.5 | 4 |
| 34 | A fuzzy logic controller based approach to model the switching mechanism of the mammalian central carbon metabolic pathway in normal and cancer cells. Molecular BioSystems, 2016, 12, 2490-2505. | 2.9 | 4 |
| 35 | Structural disorder: a tool for housekeeping proteins performing tissue-specific interactions. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1930-1945. | 3.5 | 4 |
| 36 | GenSeg and MR-GenSeg: A Novel Segmentation Algorithm and its Parallel MapReduce Based Approach for Identifying Genomic Regions With Copy Number Variations. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 443-454. | 3.0 | 4 |

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|----|---|-----|-----------|
| 37 | Neuro-fuzzy Methodology for Selecting Genes Mediating Lung Cancer. Lecture Notes in Computer Science, 2011, , 388-393. | 1.3 | 4 |
| 38 | A connectionist model for selection of cases. Information Sciences, 2001, 132, 179-194. | 6.9 | 3 |
| 39 | Development of a fuzzy entropy based method for detecting altered gene–gene interactions in carcinogenic state. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2731-2746. | 1.4 | 3 |
| 40 | Succinate aggravates NAFLD progression to liver cancer on the onset of obesity: An <i>in silico</i> model. Journal of Bioinformatics and Computational Biology, 2018, 16, 1850008. | 0.8 | 3 |
| 41 | A control theoretic three timescale model for analyzing energy management in mammalian cancer cells. Computational and Structural Biotechnology Journal, 2021, 19, 477-508. | 4.1 | 3 |
| 42 | Epidemiological challenges in pandemic coronavirus disease (<scp>COVID</scp> â€19): Role of artificial intelligence. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2022, 12, . | 6.8 | 3 |
| 43 | Modularized study of human calcium signalling pathway. Journal of Biosciences, 2007, 32, 1009-1017. | 1.1 | 2 |
| 44 | Detecting breakdown points in metabolic networks. Computational Biology and Chemistry, 2011, 35, 371-380. | 2.3 | 2 |
| 45 | SAGPAR: Structural Grammar-based automated pathway reconstruction. Interdisciplinary Sciences, Computational Life Sciences, 2012, 4, 116-127. | 3.6 | 2 |
| 46 | Evolutionary growth of certain metabolic pathways involved in the functioning of GAD and INS genes in Type 1 Diabetes Mellitus: Their architecture and stability. Computers in Biology and Medicine, 2015, 61, 19-35. | 7.0 | 2 |
| 47 | A novel locally guided genome reassembling technique using an artificial ant system. Applied Intelligence, 2015, 43, 397-411. | 5.3 | 2 |
| 48 | Feature Selection and Fuzzy Rule Mining for Epileptic Patients from Clinical EEG Data. Lecture Notes in Computer Science, 2017, , 87-95. | 1.3 | 2 |
| 49 | Slow update stochastic simulation algorithms for modeling complex biochemical networks. BioSystems, 2017, 162, 135-146. | 2.0 | 2 |
| 50 | Block Search Stochastic Simulation Algorithm (<i>BlSSSA</i>): A Fast Stochastic Simulation Algorithm for Modeling Large Biochemical Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 2111-2123. | 3.0 | 2 |
| 51 | A Model of an Integrated Immune System Pathway in Homo sapiens and Its Interaction with Superantigen Producing Expression Regulatory Pathway in Staphylococcus aureus: Comparing Behavior of Pathogen Perturbed and Unperturbed Pathway. PLoS ONE, 2013, 8, e80918. | 2.5 | 2 |
| 52 | Cluster Quality based Non-Reductional (CQNR) oversampling technique and effector protein predictor based on 3D structure (EPP3D) of proteins. Computers in Biology and Medicine, 2019, 112, 103374. | 7.0 | 1 |
| 53 | Gaussian Fuzzy Index (GFI) for Cluster Validation: Identification of High Quality Biologically Enriched Clusters of Genes and Selection of Some Possible Genes Mediating Lung Cancer. Lecture Notes in Computer Science, 2013, , 680-687. | 1.3 | 1 |
| 54 | Developmental Trend Derived from Modules of Wnt Signaling Pathways. Lecture Notes in Computer Science, 2011, , 400-405. | 1.3 | 1 |

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| 55 | A novel noise handling method to improve clustering of gene expression patterns. BMC Bioinformatics, 2011, 12, . | 2.6 | 0 |
| 56 | Modeling host–pathogen interactions: <i>H. sapiens</i> as a host and <i>C. difficile</i> as a pathogen. Journal of Molecular Recognition, 2012, 25, 474-485. | 2.1 | 0 |
| 57 | Simulating an Infection Growth Model in Certain Healthy Metabolic Pathways of Homo sapiens for Highlighting Their Role in Type I Diabetes mellitus Using Fire-Spread Strategy, Feedbacks and Sensitivities. PLoS ONE, 2013, 8, e69724. | 2.5 | 0 |
| 58 | Second order optimization for the inference of gene regulatory pathways. Statistical Applications in Genetics and Molecular Biology, 2014, 13, 19-33. | 0.6 | 0 |
| 59 | Concepts of relative sample outlier (RSO) and weighted sample similarity (WSS) for improving performance of clustering genes: co-function and co-regulation. International Journal of Data Mining and Bioinformatics, 2015, 11, 314. | 0.1 | 0 |
| 60 | A module tree of Wnt signal transduction pathways. , 2015, , . | | 0 |
| 61 | ASAPP: Architectural Similarity-based Automated Pathway Prediction System and its Application in Host-Pathogen Interactions. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 17, 1-1. | 3.0 | 0 |
| 62 | Expected return time to the initial state for biochemical systems with linear cyclic chains: unidirectional and bidirectional reactions. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1. | 1.3 | 0 |
| 63 | Two-Class in Silico Categorization of Intermediate Epileptic EEG Data. Lecture Notes in Computer Science, 2019, , 184-192. | 1.3 | 0 |
| 64 | Pattern and Rule Mining for Identifying Signatures of Epileptic Patients from Clinical EEG Data. Fundamenta Informaticae, 2020, 176, 141-166. | 0.4 | 0 |
| 65 | Computational neuroscience and neuroinformatics: Recent progress and resources. Journal of Biosciences, 2018, 43, 1037-1054. | 1.1 | 0 |