

Francisco de Assis Tenorio de Carvalho
Full Publication List

January/2025

Full Papers in Journals

1. PALOMINO MARIÑO, LAURA MARIA; **TENORIO DE CARVALHO, FRANCISCO DE ASSIS**
Self-organizing maps with adaptive distances for multiple dissimilarity matrices. MACHINE LEARNING. , v.113, p. 7783-7806, 2024. <https://doi.org/10.1007/s10994-024-06607-x>
2. SIMÕES, EDUARDO C.; **De Carvalho, Francisco de A.T.**
Gaussian Kernel Fuzzy C-Means with Width Parameter Computation and Regularization. PATTERN RECOGNITION. , v.143, p.109749 - , 2023. <https://doi.org/10.1016/j.patcog.2023.109749>
3. BRANCO, DIOGO P.P.; **DE A.T. DE CARVALHO, FRANCISCO**
Medoid based semi-supervised fuzzy clustering algorithms for multi-view relational data. FUZZY SETS AND SYSTEMS. , v.469, p.108630 - , 2023. <https://doi.org/10.1016/j.fss.2023.108630>
4. **de Carvalho, Francisco de A. T.**; IRPINO, ANTONIO; Verde, Rosanna; BALZANELLA, ANTONIO
Batch Self-Organizing Maps for Distributional Data with an Automatic Weighting of Variables and Components. JOURNAL OF CLASSIFICATION. , v.39, p.343 - 375, 2022. <https://doi.org/10.1007/s00357-022-09411-1>
5. RIZO RODRÍGUEZ, SARA INÉS; **TENÓRIO DE CARVALHO, FRANCISCO DE ASSIS**
Clustering interval-valued data with adaptive Euclidean and City-Block distances. EXPERT SYSTEMS WITH APPLICATIONS. , v.198, p.116774 - , 2022. <https://doi.org/10.1016/j.eswa.2022.116774>
6. MARIÑO, LAURA M.P.; **De Carvalho, Francisco de A.T.**
Two weighted c-medoids batch SOM algorithms for dissimilarity data. INFORMATION SCIENCES. , v.607, p.603 - 619, 2022. <https://doi.org/10.1016/j.ins.2022.06.019>
7. OLIVEIRA, MARCOS DE S.; QUEIROZ, SERGIO R. DE M.; **CARVALHO, FRANCISCO DE A.T. DE**
Unsupervised feature selection method based on iterative similarity graph factorization and clustering by modularity. EXPERT SYSTEMS WITH APPLICATIONS. , v.208, p.118092 - , 2022. <https://doi.org/10.1016/j.eswa.2022.118092>
8. MARIÑO, LAURA M.P.; **De Carvalho, Francisco de A.T.**
Vector batch SOM algorithms for multi-view dissimilarity data. KNOWLEDGE-BASED SYSTEMS. , v.258, p.109994 - , 2022. <https://doi.org/10.1016/j.knosys.2022.109994>
9. **De Carvalho, Francisco de A.T.**; Lima Neto, Eufrásio de A.; DA SILVA, KASSIO C.F.
A clusterwise nonlinear regression algorithm for interval-valued data. INFORMATION SCIENCES. , v.555, p.357 - 385, 2021. <https://doi.org/10.1016/j.ins.2020.10.054>
10. **De Carvalho, Francisco de A.T.**; BALZANELLA, ANTONIO; IRPINO, ANTONIO; Verde, Rosanna
Co-clustering algorithms for distributional data with automated variable weighting. INFORMATION SCIENCES. , v.549, p.87 - 115, 2021. <https://doi.org/10.1016/j.ins.2020.11.018>
11. RODRÍGUEZ, SARA I.R.; **De Carvalho, Francisco de A.T.**
Fuzzy clustering algorithms with distance metric learning and entropy regularization. APPLIED SOFT COMPUTING. , v.113, p.107922 - , 2021. <https://doi.org/10.1016/j.asoc.2021.107922>
12. **DE A.T. DE CARVALHO, FRANCISCO**; DE A. LIMA NETO, EUFRÁSIO; DA N. ROSENDO, ULLYSES
Interval joint robust regression method. NEUROCOMPUTING. , v.465, p.265 - 288, 2021. <https://doi.org/10.1016/j.neucom.2021.08.129>
13. RODRÍGUEZ, SARA I.R.; **De Carvalho, Francisco de A.T.**
Soft subspace clustering of interval-valued data with regularizations. KNOWLEDGE-BASED SYSTEMS. , v.227, p.107191 - , 2021. <https://doi.org/10.1016/j.knosys.2021.107191>
14. DA SILVA, RICARDO A.M.; **De Carvalho, Francisco de A.T.**
Weighted Clusterwise Linear Regression based on adaptive quadratic form distance. EXPERT SYSTEMS WITH APPLICATIONS. , v.185, p.115609 - , 2021. <https://doi.org/10.1016/j.eswa.2021.115609>

15. DE GUSMÃO, RENÊ PEREIRA; **DE CARVALHO, FRANCISCO DE ASSIS TENÓRIO**
PSO for Fuzzy Clustering of Multi-view Relational Data. INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE. , v.34, p.2050022 - 2050022-33, 2020. <https://doi.org/10.1142/S0218001420500226>
16. DE GUSMÃO, RENÊ PEREIRA; **De Carvalho, Francisco de A.T.**
Clustering of multi-view relational data based on particle swarm optimization. EXPERT SYSTEMS WITH APPLICATIONS. , v.123, p.34 - 53, 2019. <https://doi.org/10.1016/j.eswa.2018.12.053>
17. NETO, EUFRÁSIO DE A. LIMA; **De Carvalho, Francisco de A.T.**
An exponential-type kernel robust regression model for interval-valued variables. INFORMATION SCIENCES. , v.454, p.419 - 442, 2018. <https://doi.org/10.1016/j.ins.2018.05.008>
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Gaussian Kernel C-Means Hard Clustering Algorithms with Automated Computation of the Width Hyper-Parameters. PATTERN RECOGNITION. , v.79, p.370 - 386, 2018. <https://doi.org/10.1016/j.patcog.2018.02.018>
19. **de Carvalho, Francisco de A. T.**; LIMA NETO, E. A.; Ferreira, M.R.P.
A robust regression method based on exponential-type kernel functions. Neurocomputing (Amsterdam). , v.234, p.58 - 74, 2017. <https://doi.org/10.1016/j.neucom.2016.12.035>
20. IRPINO, ANTONIO; Verde, Rosanna; **De Carvalho, Francisco de A.T.**
Fuzzy clustering of distributional data with automatic weighting of variable components. INFORMATION SCIENCES. , v.406, p.248 - 268, 2017. <https://doi.org/10.1016/j.ins.2017.04.040>
21. **De Carvalho, Francisco de A.T.**; SIMÕES, EDUARDO C.
Fuzzy Clustering of Interval-Valued Data with City-Block and Hausdorff Distances. NEUROCOMPUTING. , v.266, p.659 - 673, 2017. <https://doi.org/10.1016/j.neucom.2017.05.084>
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Nonlinear regression applied to interval-valued data. PATTERN ANALYSIS AND APPLICATIONS. , v.20, p.809 - 824, 2017. <https://doi.org/10.1007/s10044-016-0538-y>
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Guest Editorial Special Issue on Granular/Symbolic Data Processing. IEEE T CYBERNETICS. , v.46, p.342 - 343, 2016. <https://doi.org/10.1109/TCYB.2015.2513258>
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Kernel-based hard clustering methods with kernelization of the metric and automatic weighting of the variables. Pattern Recognition. , v.51, p.310 - 321, 2016. <https://doi.org/10.1016/j.patcog.2015.09.025>
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A multi-view relational fuzzy c-medoid vectors clustering algorithm. Neurocomputing (Amsterdam). , v.163, p.115 - 123, 2015. <https://doi.org/10.1016/j.neucom.2014.11.083>
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Dynamic clustering of histogram data based on adaptive squared Wasserstein distances. Expert Systems with Applications. , v.41, p.3351 - 3366, 2014. <https://doi.org/10.1016/j.eswa.2013.12.001>
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Kernel-based hard clustering methods in the feature space with automatic variable weighting. Pattern Recognition. , v.47, p.3082 - 3095, 2014. <https://doi.org/10.1016/j.patcog.2014.03.026>
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Nonlinear multicriteria clustering based on multiple dissimilarity matrices. Pattern Recognition. , v.46, p.3383 - 3394, 2013. <https://doi.org/10.1016/j.patcog.2013.06.008>
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Relational Partitioning Fuzzy Clustering Algorithms Based on Multiple Dissimilarity Matrices. Fuzzy Sets and Systems. , v.215, p.1 - 28, 2013. <https://doi.org/10.1016/j.fss.2012.09.011>
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Inferring epigenetic and transcriptional regulation during blood cell development with a mixture of sparse linear models. Bioinformatics (Oxford. Print). , v.28, p.362 - , 2012.
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Symbolic data analysis tools for recommendation systems. Knowledge and Information Systems. , v.26, p.385 - 418, 2011. <https://doi.org/10.1007/s10115-009-0282-3>
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Constrained linear regression models for symbolic interval-valued variables. Computational Statistics & Data Analysis (Print). , v.54, p.333 - 347, 2010. <https://doi.org/10.1016/j.csda.2009.08.010>
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Fuzzy K-means clustering algorithms for interval-valued data based on adaptive quadratic distances?. Fuzzy Sets and Systems. , v.161, p.2978 - 2999, 2010. <https://doi.org/10.1016/j.fss.2010.08.003>
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Unsupervised pattern recognition models for mixed feature-type symbolic data. Pattern Recognition Letters. , v.31, p.430 - 443, 2010. <https://doi.org/10.1016/j.patrec.2009.11.007>
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Clustering Constrained Symbolic Data. Pattern Recognition Letters. , v.30, p.1037 - 1045, 2009.
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Forecasting models for interval-valued time series. Neurocomputing (Amsterdam). , v.71, p.3344 - 3352, 2008. <https://doi.org/10.1016/j.neucom.2008.02.022>
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Fuzzy c-means clustering methods for symbolic interval data. Pattern Recognition Letters. , v.28, p.423 - 437, 2007. <https://doi.org/10.1016/j.patrec.2006.08.014>
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65. KOENING, M. L.; ESKINAZILEÇA, E.; **de Carvalho, Francisco de A. T.**
Análise Ecológica da Diatomoflora do Estuário do rio Ipojuca (Suape- Pernambuco-Brasil). Trabalhos Oceanograficos da Universidade Federal de Pernambuco. , v.24, p.61 - 78, 1996.
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Book Chapters

1. Araújo, Rodrigo C.; **Assis Tenorio de Carvalho, Francisco**; Lechevallier, Yves
A Novel Clustering Method with Automatic Weighting of Tables and Variables In: Advances in Data Science.1 ed.: Wiley, 2020, p. 187-207. <https://doi.org/10.1002/9781119695110.ch9>
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Clustering of Solar Irradiance In: Studies in Classification, Data Analysis, and Knowledge Organization.1 ed.: Springer Berlin Heidelberg, 2015, p. 43-53. https://doi.org/10.1007/978-3-662-44983-7_4
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Multi-view Clustering on Relational Data In: Studies in Computational Intelligence.527 ed.Berlin et al (Germany): Springer International Publishing, 2014, v.4, p. 37-51. https://doi.org/10.1007/978-3-319-02999-3_3
4. CSERNEL, M.; **DE CARVALHO, F. A. T.**
Normalizing Constrained Symbolic Data for Clustering In: Advances in Theory and Applications of High Dimensional and Symbolic Data Analysis.1 ed.Paris (França): Éditions Hermann, 2013, v.E.25, p. 59-80.

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Clustering Dynamic Web Usage Data In: Innovative Applications in Data Mining.169 ed.Berlin et al (Germany): Springer Berlin Heidelberg, 2008, v.1, p. 71-82. https://doi.org/10.1007/978-3-540-88045-5_4
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10. **Carvalho, Francisco de A. T.**
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Book (Org.)

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Full papers in Conferences

1. DE SA, JOSE NATANIEL A.; FERREIRA, MARCELO R.P.; **De Carvalho, Francisco de A.T.**
Kernel-based Fuzzy Co-clustering in Feature Space with Automated Variable Weighting In: 2022 IEEE International Conference on Fuzzy Systems (FUZZIEEE), 2022, Padua.
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2. MARINO, LAURA M. P.; **de Carvalho, Francisco de A. T.**

A new batch SOM algorithm for relational data with weighted medoids In: 2020 International Joint Conference on Neural Networks (IJCNN), 2020, Glasgow.

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A Fuzzy Clustering Algorithm with Multi-medoids for Multi-view Relational Data (DOI: https://doi.org/10.1007/978-3-030-22796-8_50) In: 16th International Symposium on Neural Networks - ISNN 2019, 2019, Moscow, Russia.

Advances in Neural Networks – ISNN 2019. ISNN 2019. Lecture Notes in Computer Science. Springer, Cham, 2019. v.11554. p.469 – 477 https://doi.org/10.1007/978-3-030-22796-8_50

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A new fuzzy clustering algorithm for interval-valued data based on City-Block distance In: 2019 IEEE International Conference on Fuzzy Systems (FUZZIEEE), 2019, New Orleans.

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