# Corrado Mencar

## List of Publications by Year
in descending order

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|---|---|---|---|
| 79<br>papers | 1,068<br>citations | 516215<br>16<br>h-index | 476904<br>29<br>g-index |
| 84<br>all docs | 84<br>docs citations | 84<br>times ranked | 784<br>citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Interpretability constraints for fuzzy information granulation. Information Sciences, 2008, 178, 4585-4618. | 4.0 | 145 |
| 2 | Interpretability assessment of fuzzy knowledge bases: A cointension based approach. International Journal of Approximate Reasoning, 2011, 52, 501-518. | 1.9 | 79 |
| 3 | Interpretability of Fuzzy Systems: Current Research Trends and Prospects. , 2015, , 219-237. | | 71 |
| 4 | Application of machine learning to predict obstructive sleep apnea syndrome severity. Health Informatics Journal, 2020, 26, 298-317. | 1.1 | 51 |
| 5 | Knowledge discovery by a neuro-fuzzy modeling framework. Fuzzy Sets and Systems, 2005, 149, 187-207. | 1.6 | 47 |
| 6 | Subtractive clustering for seeding non-negative matrix factorizations. Information Sciences, 2014, 257, 369-387. | 4.0 | 46 |
| 7 | A neuro-fuzzy network to generate human-understandable knowledge from data. Cognitive Systems Research, 2002, 3, 125-144. | 1.9 | 43 |
| 8 | Distinguishability quantification of fuzzy sets. Information Sciences, 2007, 177, 130-149. | 4.0 | 43 |
| 9 | A Bibliometric Analysis of the Explainable Artificial Intelligence Research Field. Communications in Computer and Information Science, 2018, , 3-15. | 0.4 | 38 |
| 10 | Crowd Detection in Aerial Images Using Spatial Graphs and Fully-Convolutional Neural Networks. IEEE Access, 2020, 8, 64534-64544. | 2.6 | 34 |
| 11 | Data Stream Classification by Dynamic Incremental Semi-Supervised Fuzzy Clustering. International Journal on Artificial Intelligence Tools, 2019, 28, 1960009. | 0.7 | 33 |
| 12 | Design of fuzzy rule-based classifiers with semantic cointension. Information Sciences, 2011, 181, 4361-4377. | 4.0 | 30 |
| 13 | An Empirical Risk Functional to Improve Learning in a Neuro-Fuzzy Classifier. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 725-731. | 5.5 | 29 |
| 14 | ON THE ROLE OF INTERPRETABILITY IN FUZZY DATA MINING. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2007, 15, 521-537. | 0.9 | 26 |
| 15 | A fuzzy method for RNA-Seq differential expression analysis in presence of multireads. BMC Bioinformatics, 2016, 17, 345. | 1.2 | 25 |
| 16 | A framework for intelligent Twitter data analysis with non-negative matrix factorization. International Journal of Web Information Systems, 2018, 14, 334-356. | 1.3 | 21 |
| 17 | Crowd Detection for Drone Safe Landing Through Fully-Convolutional Neural Networks. Lecture Notes in Computer Science, 2020, , 301-312. | 1.0 | 19 |
| 18 | Deriving prediction intervals for neuro-fuzzy networks. Mathematical and Computer Modelling, 2005, 42, 719-726. | 2.0 | 15 |

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|---|---------|----|-----------|
| 19 | Paving the Way to Explainable Artificial Intelligence with Fuzzy Modeling. Lecture Notes in Computer Science, 2019, , 215-227. | 1.0 | 15 |
| 20 | DCf: a double clustering framework for fuzzy information granulation. , 2005, , . | | 14 |
| 21 | Incremental adaptive semi-supervised fuzzy clustering for data stream classification. , 2018, , . | | 14 |
| 22 | Interpretable fuzzy partitioning of classified data with variable granularity. Applied Soft Computing Journal, 2019, 74, 567-582. | 4.1 | 13 |
| 23 | Similarity-Based Fuzzy Clustering for User Profiling. , 2007, , . | | 10 |
| 24 | Interpretability Constraints and Criteria for Fuzzy Systems. Studies in Computational Intelligence, 2021, , 49-89. | 0.7 | 10 |
| 25 | Design of Strong Fuzzy Partitions from Cuts. , 2013, , . | | 10 |
| 26 | Modeling User Preferences through Adaptive Fuzzy Profiles. , 2009, , . | | 9 |
| 27 | Interpretability of Fuzzy Systems. Lecture Notes in Computer Science, 2013, , 22-35. | 1.0 | 9 |
| 28 | Multi-view Convolutional Network for Crowd Counting in Drone-Captured Images. Lecture Notes in Computer Science, 2020, , 588-603. | 1.0 | 9 |
| 29 | Granular counting of uncertain data. Fuzzy Sets and Systems, 2020, 387, 108-126. | 1.6 | 8 |
| 30 | Q-matrix Extraction from Real Response Data Using Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2017, , 203-216. | 1.0 | 8 |
| 31 | Balancing Interpretability and Accuracy by Multi-Level Fuzzy Information Granulation. , 2006, , . | | 7 |
| 32 | LEARNING FUZZY USER PROFILES FOR RESOURCE RECOMMENDATION. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2010, 18, 389-410. | 0.9 | 7 |
| 33 | Revisiting Indexes for Assessing Interpretability of Fuzzy Systems. Studies in Computational Intelligence, 2021, , 91-118. | 0.7 | 7 |
| 34 | Toward Explainable Artificial Intelligence Through Fuzzy Systems. Studies in Computational Intelligence, 2021, , 1-23. | 0.7 | 7 |
| 35 | Intelligent Twitter Data Analysis Based on Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2017, , 188-202. | 1.0 | 7 |
| 36 | Fuzzy User Profiling in e-Learning Contexts. Lecture Notes in Computer Science, 2008, , 230-237. | 1.0 | 7 |

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| 37 | Incremental and Adaptive Fuzzy Clustering for Virtual Learning Environments Data Analysis. , 2019, , . | | 6 |
| 38 | Designing Interpretable Fuzzy Systems. Studies in Computational Intelligence, 2021, , 119-168. | 0.7 | 6 |
| 39 | Preliminary Evaluation of TinyYOLO on a New Dataset for Search-and-Rescue with Drones. , 2020, , . | | 6 |
| 40 | Interpretability Assessment of Fuzzy Rule-Based Classifiers. Lecture Notes in Computer Science, 2009, , 155-162. | 1.0 | 5 |
| 41 | Modeling Interpretable Fuzzy Rule-Based Classifiers for Medical Decision Support. Advances in Medical Technologies and Clinical Practice Book Series, 2012, , 255-272. | 0.3 | 5 |
| 42 | Crowd Counting from Unmanned Aerial Vehicles with Fully-Convolutional Neural Networks. , 2020, , . | | 4 |
| 43 | Human Detection inÂDrone Images Using YOLO forÂSearch-and-Rescue Operations. Lecture Notes in Computer Science, 2022, , 326-337. | 1.0 | 4 |
| 44 | Interface optimality in fuzzy inference systems. International Journal of Approximate Reasoning, 2006, 41, 128-145. | 1.9 | 3 |
| 45 | Mining Diagnostic Rules Using Fuzzy Clustering. , 0, , 211-228. | | 3 |
| 46 | A Study on Interpretability Conditions for Fuzzy Rule-Based Classifiers. , 2009, , . | | 3 |
| 47 | Data-driven design of fuzzy classification rules with semantic cointension. , 2010, , . | | 3 |
| 48 | Assessment of semantic cointension of fuzzy rule-based classifiers in a medical context. , 2011, , . | | 3 |
| 49 | A Granular Computing Method for OWL Ontologies*. Fundamenta Informaticae, 2018, 159, 147-174. | 0.3 | 3 |
| 50 | Design and Validation of an Explainable Fuzzy Beer Style Classifier. Studies in Computational Intelligence, 2021, , 169-217. | 0.7 | 3 |
| 51 | Interpretable knowledge discovery from data with DC*. , 0, , . | | 3 |
| 52 | Enhancing the DISSFCM Algorithm for Data Stream Classification. Lecture Notes in Computer Science, 2019, , 109-122. | 1.0 | 3 |
| 53 | Similarity-Based Fuzzy Clustering for User Profiling. , 2007, , . | | 2 |
| 54 | DC$^{\beta}$ : Interpretable Granulation of Data through GA-based Double Clustering. , 2007, , . | | 2 |

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|---|---------|-----|-----------|
| 55 | Automatic Design of Interpretable Fuzzy Partitions with Variable Granularity: An Experimental Comparison. Lecture Notes in Computer Science, 2013, , 318-328. | 1.0 | 2 |
| 56 | A System for Fuzzy Granulation of OWL Ontologies. Lecture Notes in Computer Science, 2017, , 126-135. | 1.0 | 2 |
| 57 | Efficiency improvement of DCâˆ— through a Genetic Guidance. , 2017, , . | | 2 |
| 58 | GrCount: Counting method for uncertain data. MethodsX, 2019, 6, 2455-2459. | 0.7 | 2 |
| 59 | Part-Based Data Analysis with Masked Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2014, , 440-454. | 1.0 | 2 |
| 60 | Improving the Classification Ability of DC* Algorithm. Lecture Notes in Computer Science, 2007, , 145-151. | 1.0 | 2 |
| 61 | Managing NGS Differential Expression Uncertainty with Fuzzy Sets. Lecture Notes in Computer Science, 2016, , 42-53. | 1.0 | 2 |
| 62 | A Profile Modelling Approach for E-Learning Systems. Lecture Notes in Computer Science, 2008, , 275-290. | 1.0 | 2 |
| 63 | Effect of fuzziness in fuzzy rule-based classifiers defined by strong fuzzy partitions and winner-takes-all inference. Soft Computing, 0, , 1. | 2.1 | 2 |
| 64 | A Neural Network for Water Level Prediction in Artesian Wells. , 2008, , . | | 1 |
| 65 | Interpretability of Fuzzy Information Granules. Studies in Computational Intelligence, 2009, , 95-118. | 0.7 | 1 |
| 66 | Item Recommendation with Veristic and Possibilistic Metadata: A Preliminary Approach. , 2009, , . | | 1 |
| 67 | Fuzzy Information Granulation with Multiple Levels of Granularity. Intelligent Systems Reference Library, 2011, , 185-202. | 1.0 | 1 |
| 68 | KEEL meets KNIME. , 2017, , . | | 1 |
| 69 | Subtractive Initialization of Nonnegative Matrix Factorizations for Document Clustering. Lecture Notes in Computer Science, 2011, , 188-195. | 1.0 | 1 |
| 70 | Looking at the Branches and Roots. Lecture Notes in Computer Science, 2019, , 249-252. | 1.0 | 1 |
| 71 | Exploiting Particle Swarm Optimization to Attune Strong Fuzzy Partitions Based on Cuts. , 0, , . | | 1 |
| 72 | Fine-Tuning the Fuzziness of Strong Fuzzy Partitions through PSO. International Journal of Computational Intelligence Systems, 2020, 13, 1415. | 1.6 | 1 |

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|---|---------|----|-----------| 
| 73 | HUGE: an integrated system for Human Understandable Granule Extraction. , 0, , . | | 0 |
| 74 | Interpretable Granulation of Medical Data with DC. , 2007, , . | | 0 |
| 75 | Fast Fuzzy Inference in Octave. International Journal of Computational Intelligence Systems, 2013, 6, 307-317. | 1.6 | 0 |
| 76 | Extracting Interpretable Fuzzy Knowledge from Data. , 2002, , 109-116. | | 0 |
| 77 | Bi-monotonic Fuzzy Sets Lead to Optimal Fuzzy Interfaces. Lecture Notes in Computer Science, 2006, , 39-45. | 1.0 | 0 |
| 78 | A System for Fuzzy Items Recommendation. Studies in Computational Intelligence, 2009, , 119-140. | 0.7 | 0 |
| 79 | Serendipitous Fuzzy Item Recommendation with ProfileMatcher. Lecture Notes in Computer Science, 2011, , 220-227. | 1.0 | 0 |