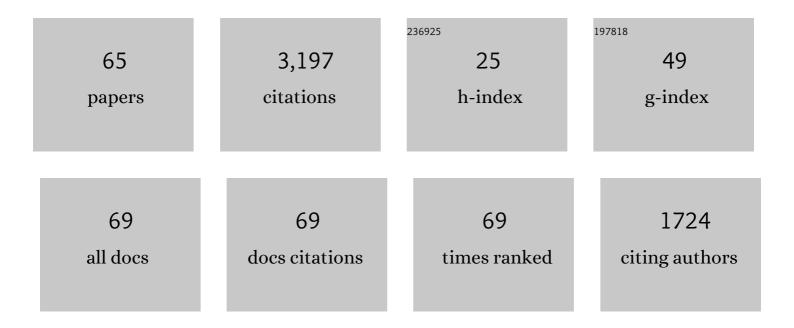
Rafael AlcalÃ;

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Mining high average-utility sequential rules to identify high-utility gene expression sequences in longitudinal human studies. Expert Systems With Applications, 2022, 193, 116411. | 7.6 | 8 |
| 2 | Transparent but Accurate Evolutionary Regression Combining New Linguistic Fuzzy Grammar and a Novel Interpretable Linear Extension. International Journal of Fuzzy Systems, 2022, 24, 3082-3103. | 4.0 | 4 |
| 3 | Meta-Fuzzy Items for Fuzzy Association Rules. , 2021, , . | | 2 |
| 4 | Temporal association rule mining: An overview considering the time variable as an integral or implied component. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1367. | 6.8 | 13 |
| 5 | eXplainable Artificial Intelligence (XAI) for the identification of biologically relevant gene expression patterns in longitudinal human studies, insights from obesity research. PLoS Computational Biology, 2020, 16, e1007792. | 3.2 | 44 |
| 6 | Title is missing!. , 2020, 16, e1007792. | | 0 |
| 7 | Title is missing!. , 2020, 16, e1007792. | | 0 |
| 8 | Title is missing!. , 2020, 16, e1007792. | | 0 |
| 9 | Title is missing!. , 2020, 16, e1007792. | | 0 |
| 10 | Experimental Study on 164 Algorithms Available in Software Tools for Solving Standard Non-Linear Regression Problems. IEEE Access, 2019, 7, 108916-108939. | 4.2 | 15 |
| 11 | Describing Sequential Association Patterns from Longitudinal Microarray Data Sets in Humans. Lecture Notes in Computer Science, 2019, , 318-329. | 1.3 | 1 |
| 12 | Evolutionary data mining and applications: A revision on the most cited papers from the last 10 years (2007–2017). Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1239. | 6.8 | 5 |
| 13 | Evolutionary Fuzzy Rule-Based Methods for Monotonic Classification. IEEE Transactions on Fuzzy Systems, 2017, 25, 1376-1390. | 9.8 | 36 |
| 14 | A multi-objective evolutionary method for learning granularities based on fuzzy discretization to improve the accuracy-complexity trade-off of fuzzy rule-based classification systems: D-MOFARC algorithm. Applied Soft Computing Journal, 2014, 24, 470-481. | 7.2 | 55 |
| 15 | METSK-HDe: A multiobjective evolutionary algorithm to learn accurate TSK-fuzzy systems in high-dimensional and large-scale regression problems. Information Sciences, 2014, 276, 63-79. | 6.9 | 59 |
| 16 | Comparison and design of interpretable linguistic vs. scatter FRBSs: Gm3m generalization and new rule meaning index for global assessment and local pseudo-linguistic representation. Information Sciences, 2014, 282, 190-213. | 6.9 | 10 |
| 17 | A study on the application of instance selection techniques in genetic fuzzy rule-based classification systems: Accuracy-complexity trade-off. Knowledge-Based Systems, 2013, 54, 32-41. | 7.1 | 25 |
| 18 | Obtaining accurate TSK Fuzzy Rule-Based Systems by Multi-Objective Evolutionary Learning in | | 2 |

high-dimensional regression problems. , 2013, , .

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A Review of the Application of Multiobjective Evolutionary Fuzzy Systems: Current Status and Further Directions. IEEE Transactions on Fuzzy Systems, 2013, 21, 45-65. | 9.8 | 321 |
| 20 | Improving a fuzzy association rule-based classification model by granularity learning based on heuristic measures over multiple granularities. , 2013, , . | | 4 |
| 21 | Automatic Laser Pointer Detection Algorithm for Environment Control Device Systems Based on Template Matching and Genetic Tuning of Fuzzy Rule-Based Systems. International Journal of Computational Intelligence Systems, 2012, 5, 368-386. | 2.7 | 8 |
| 22 | A case study on the application of instance selection techniques for Genetic Fuzzy Rule-Based Classifiers. , 2012, , . | | 3 |
| 23 | Special Issue on Evolutionary Fuzzy Systems. International Journal of Computational Intelligence Systems, 2012, 5, 209. | 2.7 | 6 |
| 24 | A multi-objective evolutionary algorithm for an effective tuning ofÂfuzzy logic controllers inÂheating, ventilating and air conditioning systems. Applied Intelligence, 2012, 36, 330-347. | 5.3 | 59 |
| 25 | Hybrid laser pointer detection algorithm based on template matching and fuzzy rule-based systems for domotic control inÂrealÂhome environments. Applied Intelligence, 2012, 36, 407-423. | 5.3 | 14 |
| 26 | Evolutionary Multi-Objective Algorithm to effectively improve the performance of the classic tuning of fuzzy logic controllers for a heating, ventilating and Air Conditioning system. , 2011, , . | | 5 |
| 27 | Evolutionary learning of a laser pointer detection fuzzy system for an environment control system. , 2011, , . | | 5 |
| 28 | A Fuzzy Association Rule-Based Classification Model for High-Dimensional Problems With Genetic Rule Selection and Lateral Tuning. IEEE Transactions on Fuzzy Systems, 2011, 19, 857-872. | 9.8 | 274 |
| 29 | Special issue on evolutionary fuzzy systems. Soft Computing, 2011, 15, 2299-2301. | 3.6 | 8 |
| 30 | Multiobjective genetic fuzzy rule selection of single granularity-based fuzzy classification rules and its interaction with the lateral tuning of membership functions. Soft Computing, 2011, 15, 2303-2318. | 3.6 | 82 |
| 31 | Interpretability of linguistic fuzzy rule-based systems: An overview of interpretability measures. Information Sciences, 2011, 181, 4340-4360. | 6.9 | 428 |
| 32 | Musical genre classification by means of Fuzzy Rule-Based Systems: A preliminary approach. , 2011, , . | | 6 |
| 33 | A Fast and Scalable Multiobjective Genetic Fuzzy System for Linguistic Fuzzy Modeling in High-Dimensional Regression Problems. IEEE Transactions on Fuzzy Systems, 2011, 19, 666-681. | 9.8 | 139 |
| 34 | A case study for learning behaviors in mobile robotics by evolutionary fuzzy systems. Expert Systems With Applications, 2010, 37, 1471-1493. | 7.6 | 12 |
| 35 | Genetic tuning of a laser pointer environment control device system for handicapped people with fuzzy systems. , 2010, , . | | 6 |
| 36 | Integration of an Index to Preserve the Semantic Interpretability in the Multiobjective Evolutionary Rule Selection and Tuning of Linguistic Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2010, 18, 515-531. | 9.8 | 141 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A fuzzy associative classification system with genetic rule selection for high-dimensional problems. , 2010, , . | | 0 |
| 38 | On the Use of Distributed Genetic Algorithms for the Tuning of Fuzzy Rule Based-Systems. Studies in Computational Intelligence, 2010, , 235-261. | 0.9 | 1 |
| 39 | Analysis of the Performance of a Semantic Interpretability-Based Tuning and Rule Selection of Fuzzy Rule-Based Systems by Means of a Multi-Objective Evolutionary Algorithm. Lecture Notes in Computer Science, 2010, , 228-238. | 1.3 | 0 |
| 40 | A Multiobjective Evolutionary Approach to Concurrently Learn Rule and Data Bases of Linguistic Fuzzy-Rule-Based Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 1106-1122. | 9.8 | 153 |
| 41 | Learning weighted linguistic rules to control an autonomous robot. International Journal of Intelligent Systems, 2009, 24, 226-251. | 5.7 | 13 |
| 42 | Adaptation and application of multi-objective evolutionary algorithms for rule reduction and parameter tuning of fuzzy rule-based systems. Soft Computing, 2009, 13, 419-436. | 3.6 | 121 |
| 43 | Improving fuzzy logic controllers obtained by experts: a case study in HVAC systems. Applied Intelligence, 2009, 31, 15-30. | 5.3 | 46 |
| 44 | Evolutionary parallel and gradually distributed lateral tuning of fuzzy rule-based systems. Evolutionary Intelligence, 2009, 2, 5-19. | 3.6 | 20 |
| 45 | Special issue on genetic fuzzy systems: new advances. Evolutionary Intelligence, 2009, 2, 1-3. | 3.6 | 3 |
| 46 | Learning the membership function contexts for mining fuzzy association rules by using genetic algorithms. Fuzzy Sets and Systems, 2009, 160, 905-921. | 2.7 | 154 |
| 47 | Generating single granularity-based fuzzy classification rules for multiobjective genetic fuzzy rule selection. , 2009, , . | | 11 |
| 48 | Handling High-Dimensional Regression Problems by Means of an Efficient Multi-Objective Evolutionary Algorithm. , 2009, , . | | 4 |
| 49 | Knowledge Base Learning of Linguistic Fuzzy Rule-Based Systems in a Multi-objective Evolutionary Framework. Lecture Notes in Computer Science, 2008, , 747-754. | 1.3 | 2 |
| 50 | Genetic Learning of Membership Functions for Mining Fuzzy Association Rules. IEEE International Conference on Fuzzy Systems, 2007, , . | 0.0 | 10 |
| 51 | Guest Editorial Genetic Fuzzy Systems: What's Next? An Introduction to the Special Section. IEEE Transactions on Fuzzy Systems, 2007, 15, 533-535. | 9.8 | 24 |
| 52 | A Proposal for the Genetic Lateral Tuning of Linguistic Fuzzy Systems and Its Interaction With Rule Selection. IEEE Transactions on Fuzzy Systems, 2007, 15, 616-635. | 9.8 | 164 |
| 53 | A Multi-Objective Evolutionary Algorithm for Rule Selection and Tuning on Fuzzy Rule-Based Systems. IEEE International Conference on Fuzzy Systems, 2007, , . | 0.0 | 10 |
| 54 | A MULTI-OBJECTIVE GENETIC ALGORITHM FOR TUNING AND RULE SELECTION TO OBTAIN ACCURATE AND COMPACT LINGUISTIC FUZZY RULE-BASED SYSTEMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2007, 15, 539-557. | 1.9 | 109 |

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|----|--|-----|-----------|
| 55 | Local identification of prototypes for genetic learning of accurate TSK fuzzy rule-based systems. International Journal of Intelligent Systems, 2007, 22, 909-941. | 5.7 | 54 |
| 56 | Genetic learning of accurate and compact fuzzy rule based systems based on the 2-tuples linguistic representation. International Journal of Approximate Reasoning, 2007, 44, 45-64. | 3.3 | 104 |
| 57 | Hybrid learning models to get the interpretability–accuracy trade-off in fuzzy modeling. Soft Computing, 2006, 10, 717-734. | 3.6 | 82 |
| 58 | Rule Base Reduction and Genetic Tuning of Fuzzy Systems Based on the Linguistic 3-tuples Representation. Soft Computing, 2006, 11, 401-419. | 3.6 | 45 |
| 59 | A genetic rule weighting and selection process for fuzzy control of heating, ventilating and air conditioning systems. Engineering Applications of Artificial Intelligence, 2005, 18, 279-296. | 8.1 | 100 |
| 60 | Fuzzy Control of HVAC Systems Optimized by Genetic Algorithms. Applied Intelligence, 2003, 18, 155-177. | 5.3 | 97 |
| 61 | Linguistic modeling with hierarchical systems of weighted linguistic rules. International Journal of Approximate Reasoning, 2003, 32, 187-215. | 3.3 | 27 |
| 62 | Combining Rule Weight Learning and Rule Selection to Obtain Simpler and More Accurate Linguistic Fuzzy Models. Lecture Notes in Computer Science, 2003, , 44-63. | 1.3 | 6 |
| 63 | Linguistic modeling with weighted double-consequent fuzzy rules based on cooperative coevolutionary learning. Integrated Computer-Aided Engineering, 2003, 10, 343-355. | 4.6 | 18 |
| 64 | Improving Simple Linguistic Fuzzy Models by Means of the Weighted COR Methodology. Lecture Notes in Computer Science, 2002, , 294-302. | 1.3 | 6 |
| 65 | Genetic tuning on fuzzy systems based on the linguistic 2-tuples representation. , 0, , . | | 11 |