# Rosa Mara Valdovinos

## List of Publications by Year in Descending Order

| 46 papers | 447 citations | 8 h-index | 20 g-index |
|---|---|---|---|
| 52 ext. papers | 551 ext. citations | 1.5 avg, IF | 3.51 L-index |

| # | Paper | IF | Citations |
|---|-------|-----|-----------|
| 46 | DBIG-US: A two-stage under-sampling algorithm to face the class imbalance problem. *Expert Systems With Applications*, **2021**, 168, 114301 | 7.8 | 10 |
| 45 | Weighted Complete Graphs for Condensing Data. *Electronic Notes in Theoretical Computer Science*, **2020**, 354, 45-60 | 0.7 | 0 |
| 44 | A PSO-based algorithm for mining association rules using a guided exploration strategy. *Pattern Recognition Letters*, **2020**, 138, 8-15 | 4.7 | 11 |
| 43 | Design Specifications for an Auxiliary Incision Retractor in Dacryocystorhinostomy Surgeries. *Applied Sciences (Switzerland)*, **2020**, 10, 605 | 2.6 | |
| 42 | A Metaheuristic Algorithm to Face the Graph Coloring Problem. *Lecture Notes in Computer Science*, **2020**, 195-208 | 0.9 | |
| 41 | Analysis of Repair Costs of Scholar Buildings Affected by Earthquakes Using Data Mining. Case Study: Earthquakes of 2017 in Mexico. *Lecture Notes in Computer Science*, **2020**, 45-56 | 0.9 | |
| 40 | A Cluster-Based Under-Sampling Algorithm for Class-Imbalanced Data. *Lecture Notes in Computer Science*, **2020**, 299-311 | 0.9 | |
| 39 | A New Under-Sampling Method to Face Class Overlap and Imbalance. *Applied Sciences (Switzerland)*, **2020**, 10, 5164 | 2.6 | 8 |
| 38 | A comparison between UCB and UCB-Tuned as selection policies in GGP. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 5073-5079 | 1.6 | 10 |
| 37 | A Hybrid Feature Extraction Method for Offline Handwritten Math Symbol Recognition. *Lecture Notes in Computer Science*, **2019**, 893-901 | 0.9 | |
| 36 | Some Variations of Upper Confidence Bound for General Game Playing. *Lecture Notes in Computer Science*, **2019**, 68-79 | 0.9 | 1 |
| 35 | Addressing the Big Data Multi-class Imbalance Problem with Oversampling and Deep Learning Neural Networks. *Lecture Notes in Computer Science*, **2019**, 216-224 | 0.9 | 2 |
| 34 | On-line Learning With Reject Option. *IEEE Latin America Transactions*, **2018**, 16, 279-286 | 0.7 | |
| 33 | Chemical effect of photo-irradiation in expanded polystyrene studied by XPS. *Polymer Bulletin*, **2018**, 75, 5619-5627 | 2.4 | 7 |
| 32 | A Fast and Efficient Method for #2SAT via Graph Transformations. *Lecture Notes in Computer Science*, **2018**, 95-106 | 0.9 | |
| 31 | Extending Extremal Polygonal Arrays for the Merrifield-Simmons Index. *Lecture Notes in Computer Science*, **2017**, 22-31 | 0.9 | |
| 30 | Associative learning on imbalanced environments: An empirical study. *Expert Systems With Applications*, **2016**, 54, 387-397 | 7.8 | 10 |

| # | Reference | | |
|---|---|---|---|
| 29 | A Brief History of Computing in Mexico. *IEEE Annals of the History of Computing*, **2015**, 37, 76-86 | 0.2 | 1 |
| 28 | A Parametric Polynomial Deterministic Algorithm for #2SAT. *Lecture Notes in Computer Science*, **2015**, 202-213 | 0.9 | 3 |
| 27 | Analysing the Safe, Average and Border Samples on Two-Class Imbalance Problems in the Back-Propagation Domain. *Lecture Notes in Computer Science*, **2015**, 699-707 | 0.9 | |
| 26 | Equilibrating the Recognition of the Minority Class in the Imbalance Context. *Applied Mathematics and Information Sciences*, **2014**, 8, 27-36 | 2.4 | 2 |
| 25 | Empirical Analysis of Assessments Metrics for Multi-class Imbalance Learning on the Back-Propagation Context. *Lecture Notes in Computer Science*, **2014**, 17-23 | 0.9 | 5 |
| 24 | A hybrid method to face class overlap and class imbalance on neural networks and multi-class scenarios. *Pattern Recognition Letters*, **2013**, 34, 380-388 | 4.7 | 48 |
| 23 | **2013**, | | 3 |
| 22 | Hybrid Associative Memories for Imbalanced Data Classification: An Experimental Study. *Lecture Notes in Computer Science*, **2013**, 325-334 | 0.9 | 2 |
| 21 | Assessments Metrics for Multi-class Imbalance Learning: A Preliminary Study. *Lecture Notes in Computer Science*, **2013**, 335-343 | 0.9 | 4 |
| 20 | A Modified Back-Propagation Algorithm to Deal with Severe Two-Class Imbalance Problems on Neural Networks. *Lecture Notes in Computer Science*, **2012**, 265-272 | 0.9 | 2 |
| 19 | Medical image processing using novel wavelet filters based on atomic functions: optimal medical image compression. *Advances in Experimental Medicine and Biology*, **2011**, 696, 497-504 | 3.6 | 3 |
| 18 | A Rejection Option for the Multilayer Perceptron Using Hyperplanes. *Lecture Notes in Computer Science*, **2011**, 51-60 | 0.9 | 2 |
| 17 | Resampling Methods versus Cost Functions for Training an MLP in the Class Imbalance Context. *Lecture Notes in Computer Science*, **2011**, 19-26 | 0.9 | 1 |
| 16 | Back Propagation with Balanced MSE Cost Function and Nearest Neighbor Editing for Handling Class Overlap and Class Imbalance. *Lecture Notes in Computer Science*, **2011**, 199-206 | 0.9 | 4 |
| 15 | Edited Nearest Neighbor Rule for Improving Neural Networks Classifications. *Lecture Notes in Computer Science*, **2010**, 303-310 | 0.9 | 6 |
| 14 | Cost-Sensitive Neural Networks and Editing Techniques for Imbalance Problems. *Lecture Notes in Computer Science*, **2010**, 180-188 | 0.9 | 1 |
| 13 | The Multi-Class Imbalance Problem: Cost Functions with Modular and Non-Modular Neural Networks. *Advances in Intelligent and Soft Computing*, **2009**, 421-431 | | 2 |
| 12 | Use of Ensemble Based on GA for Imbalance Problem. *Lecture Notes in Computer Science*, **2009**, 547-554 | 0.9 | 3 |

| | | | |
|---|---|---|---|
| 11 | Combining Multiple Classifiers with Dynamic Weighted Voting. *Lecture Notes in Computer Science*, **2009**, 510-516 | 0.9 | 7 |
| 10 | Mixture of Experts with Genetic Algorithms. *Advances in Intelligent and Soft Computing*, **2009**, 331-338 | | |
| 9 | Dynamic Classifier Selection with Confidence Intervals. *Advances in Intelligent and Soft Computing*, **2009**, 473-482 | | |
| 8 | **2008**, | | 3 |
| 7 | Performance Analysis of Classifier Ensembles: Neural Networks Versus Nearest Neighbor Rule. *Lecture Notes in Computer Science*, **2007**, 105-112 | 0.9 | 4 |
| 6 | Influence of Resampling and Weighting on Diversity and Accuracy of Classifier Ensembles. *Lecture Notes in Computer Science*, **2007**, 250-257 | 0.9 | 1 |
| 5 | Ensembles of Multilayer Perceptron and Modular Neural Networks for Fast and Accurate Learning **2006**, | | 2 |
| 4 | Dynamic and Static Weighting in Classifier Fusion. *Lecture Notes in Computer Science*, **2005**, 59-66 | 0.9 | 15 |
| 3 | The Imbalanced Training Sample Problem: Under or over Sampling?. *Lecture Notes in Computer Science*, **2004**, 806-814 | 0.9 | 80 |
| 2 | New Applications of Ensembles of Classifiers. *Pattern Analysis and Applications*, **2003**, 6, 245-256 | 2.3 | 176 |
| 1 | Class-dependant resampling for medical applications | | 7 |