# Luis M De Campos

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 107 papers | 2,556 citations | 236833 25 h-index | 214721 47 g-index |
| 115 all docs | 115 docs citations | 115 times ranked | 1376 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | A subjective approach for ranking fuzzy numbers. Fuzzy Sets and Systems, 1989, 29, 145-153. | 1.6 | 284 |
| 2 | PROBABILITY INTERVALS: A TOOL FOR UNCERTAIN REASONING. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 1994, 02, 167-196. | 0.9 | 225 |
| 3 | Combining content-based and collaborative recommendations: A hybrid approach based on Bayesian networks. International Journal of Approximate Reasoning, 2010, 51, 785-799. | 1.9 | 216 |
| 4 | Ant colony optimization for learning Bayesian networks. International Journal of Approximate Reasoning, 2002, 31, 291-311. | 1.9 | 158 |
| 5 | Characterization and comparison of sugeno and choquet integrals. Fuzzy Sets and Systems, 1992, 52, 61-67. | 1.6 | 93 |
| 6 | A new approach for learning belief networks using independence criteria. International Journal of Approximate Reasoning, 2000, 24, 11-37. | 1.9 | 89 |
| 7 | Bayesian network learning algorithms using structural restrictions. International Journal of Approximate Reasoning, 2007, 45, 233-254. | 1.9 | 88 |
| 8 | The concept of conditional fuzzy measure. International Journal of Intelligent Systems, 1990, 5, 237-246. | 3.3 | 68 |
| 9 | A comparison of learning algorithms for Bayesian networks: a case study based on data from an emergency medical service. Artificial Intelligence in Medicine, 2004, 30, 215-232. | 3.8 | 67 |
| 10 | Representation of fuzzy measures through probabilities. Fuzzy Sets and Systems, 1989, 31, 23-36. | 1.6 | 66 |
| 11 | Independency relationships and learning algorithms for singly connected networks. Journal of Experimental and Theoretical Artificial Intelligence, 1998, 10, 511-549. | 1.8 | 50 |
| 12 | Bayesian networks and information retrieval: an introduction to the special issue. Information Processing and Management, 2004, 40, 727-733. | 5.4 | 50 |
| 13 | Independence concepts in possibility theory: Part I. Fuzzy Sets and Systems, 1999, 103, 127-152. | 1.6 | 49 |
| 14 | Learning Bayesian Network Classifiers: Searching in a Space of Partially Directed Acyclic Graphs. Machine Learning, 2005, 59, 213-235. | 3.4 | 48 |
| 15 | A collaborative recommender system based on probabilistic inference from fuzzy observations. Fuzzy Sets and Systems, 2008, 159, 1554-1576. | 1.6 | 44 |
| 16 | Managing uncertainty in group recommending processes. User Modeling and User-Adapted Interaction, 2009, 19, 207-242. | 2.9 | 44 |
| 17 | A hybrid methodology for learning belief networks: BENEDICT. International Journal of Approximate Reasoning, 2001, 27, 235-262. | 1.9 | 43 |
| 18 | The BNR model: foundations and performance of a Bayesian network-based retrieval model. International Journal of Approximate Reasoning, 2003, 34, 265-285. | 1.9 | 43 |

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|---|---------|----|-----------|
| 19 | An information retrieval model based on simple Bayesian networks. International Journal of Intelligent Systems, 2003, 18, 251-265. | 3.3 | 41 |
| 20 | Learning rules for a fuzzy inference model. Fuzzy Sets and Systems, 1993, 59, 247-257. | 1.6 | 39 |
| 21 | A unified approach to define fuzzy integrals. Fuzzy Sets and Systems, 1991, 39, 75-90. | 1.6 | 36 |
| 22 | Partial abductive inference in Bayesian belief networks using a genetic algorithm. Pattern Recognition Letters, 1999, 20, 1211-1217. | 2.6 | 31 |
| 23 | Partial abductive inference in Bayesian belief networks - an evolutionary computation approach by using problem-specific genetic operators. IEEE Transactions on Evolutionary Computation, 2002, 6, 105-131. | 7.5 | 29 |
| 24 | Bayesian network models for hierarchical text classification from a thesaurus. International Journal of Approximate Reasoning, 2009, 50, 932-944. | 1.9 | 27 |
| 25 | Using past-prediction accuracy in recommender systems. Information Sciences, 2012, 199, 78-92. | 4.0 | 27 |
| 26 | Distances between fuzzy measures through associated probabilities: Some applications. Fuzzy Sets and Systems, 1990, 35, 57-68. | 1.6 | 23 |
| 27 | Independence concepts in possibility theory: Part II. Fuzzy Sets and Systems, 1999, 103, 487-505. | 1.6 | 23 |
| 28 | Using context information in structured document retrieval: an approach based on influence diagrams. Information Processing and Management, 2004, 40, 829-847. | 5.4 | 21 |
| 29 | Convergence properties of the monotone expectation and its application to the extension of fuzzy measures. Fuzzy Sets and Systems, 1989, 33, 201-212. | 1.6 | 20 |
| 30 | On the use of independence relationships for learning simplified belief networks. International Journal of Intelligent Systems, 1997, 12, 495-522. | 3.3 | 19 |
| 31 | An iterated local search algorithm for learning Bayesian networks with restarts based on conditional independence tests. International Journal of Intelligent Systems, 2003, 18, 221-235. | 3.3 | 17 |
| 32 | Stochastic Local Algorithms for Learning Belief Networks: Searching in the Space of the Orderings. Lecture Notes in Computer Science, 2001, , 228-239. | 1.0 | 17 |
| 33 | Clustering terms in the Bayesian network retrieval model: a new approach with two term-layers. Applied Soft Computing Journal, 2004, 4, 149-158. | 4.1 | 16 |
| 34 | Automatic construction of multi-faceted user profiles using text clustering and its application to expert recommendation and filtering problems. Knowledge-Based Systems, 2020, 190, 105337. | 4.0 | 16 |
| 35 | A Layered Bayesian Network Model for Document Retrieval. Lecture Notes in Computer Science, 2002, , 169-182. | 1.0 | 16 |
| 36 | Positive unlabeled learning for building recommender systems in a parliamentary setting. Information Sciences, 2018, 433-434, 221-232. | 4.0 | 15 |

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|---|---------|----|-----------|
| 37 | A Multi-layered Bayesian Network Model for Structured Document Retrieval. Lecture Notes in Computer Science, 2003, , 74-86. | 1.0 | 14 |
| 38 | MEASUREMENT OF POSSIBILITY DISTRIBUTIONS. International Journal of General Systems, 2001, 30, 309-346. | 1.2 | 13 |
| 39 | Score-based methods for learning Markov boundaries by searching in constrained spaces. Data Mining and Knowledge Discovery, 2013, 26, 174-212. | 2.4 | 13 |
| 40 | Using Personalization to Improve XML Retrieval. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1280-1292. | 4.0 | 13 |
| 41 | Axiomatic treatment of possibilistic independence. Lecture Notes in Computer Science, 1995, , 77-88. | 1.0 | 12 |
| 42 | Building Bayesian network-based information retrieval systems. , 0, , . | | 12 |
| 43 | An automatic methodology to evaluate personalized information retrieval systems. User Modeling and User-Adapted Interaction, 2015, 25, 1-37. | 2.9 | 12 |
| 44 | Learning with CASTLE. Lecture Notes in Computer Science, 1991, , 97-106. | 1.0 | 12 |
| 45 | Partial abductive inference in Bayesian belief networks by simulated annealing. International Journal of Approximate Reasoning, 2001, 27, 263-283. | 1.9 | 11 |
| 46 | On the Problem of Performing Exact Partial Abductive Inference in Bayesian Belief Networks using Junction Trees. Studies in Fuzziness and Soft Computing, 2002, , 289-302. | 0.6 | 11 |
| 47 | Learning causal polytrees. Lecture Notes in Computer Science, 1993, , 180-185. | 1.0 | 10 |
| 48 | Bayesian networks classifiers for gene-expression data. , 2011, , . | | 10 |
| 49 | Use of textual and conceptual profiles for personalized retrieval of political documents. Knowledge-Based Systems, 2016, 112, 127-141. | 4.0 | 10 |
| 50 | Implementing relevance feedback in the Bayesian Network Retrieval model. Journal of the Association for Information Science and Technology, 2003, 54, 302-313. | 2.6 | 9 |
| 51 | IMPROVING THE EFFICIENCY OF THE BAYESIAN NETWORK RETRIEVAL MODEL BY REDUCING RELATIONSHIPS BETWEEN TERMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2003, 11, 101-116. | 0.9 | 9 |
| 52 | Improving the Context-Based Influence Diagram Model for Structured Document Retrieval: Removing Topological Restrictions and Adding New Evaluation Methods. Lecture Notes in Computer Science, 2005, , 215-229. | 1.0 | 9 |
| 53 | Analyzing tourist data on Twitter: a case study in the province of Granada at Spain. Journal of Hospitality and Tourism Insights, 2022, 5, 435-464. | 2.2 | 9 |
| 54 | Measuring predictive capability in collaborative filtering. , 2009, , . | | 8 |

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|---|---------|-----|-----------|
| 55 | An integrated system for managing the Andalusian Parliament's digital library. Data Technologies and Applications, 2009, 43, 156-174. | 0.8 | 8 |
| 56 | Committee-Based Profiles for Politician Finding. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2017, 25, 21-36. | 0.9 | 8 |
| 57 | Ranking Structured Documents Using Utility Theory in the Bayesian Network Retrieval Model. Lecture Notes in Computer Science, 2003, , 168-182. | 1.0 | 7 |
| 58 | Group Recommending: A methodological Approach based on Bayesian Networks. , 2007, , . | | 7 |
| 59 | Using second-hand information in collaborative recommender systems. Soft Computing, 2010, 14, 785-798. | 2.1 | 7 |
| 60 | LDA-based term profiles for expert finding in a political setting. Journal of Intelligent Information Systems, 2021, 56, 529-559. | 2.8 | 7 |
| 61 | Uncertainty management using probability intervals. Lecture Notes in Computer Science, 1995, , 190-199. | 1.0 | 6 |
| 62 | Profile-based recommendation: A case study in a parliamentary context. Journal of Information Science, 2017, 43, 665-682. | 2.0 | 6 |
| 63 | Combining gene expression data and prior knowledge for inferring gene regulatory networks via Bayesian networks using structural restrictions. Statistical Applications in Genetics and Molecular Biology, 2019, 18, . | 0.2 | 6 |
| 64 | Automatic Indexing from a Thesaurus Using Bayesian Networks: Application to the Classification of Parliamentary Initiatives. Lecture Notes in Computer Science, 2007, , 865-877. | 1.0 | 6 |
| 65 | Propagating uncertain information forward. International Journal of Intelligent Systems, 1992, 7, 15-24. | 3.3 | 5 |
| 66 | A fuzzy inference model based on an uncertainty forward propagation approach. International Journal of Approximate Reasoning, 1993, 9, 139-164. | 1.9 | 5 |
| 67 | Managing structured queries in probabilistic XML retrieval systems. Information Processing and Management, 2010, 46, 514-532. | 5.4 | 5 |
| 68 | Accelerating chromosome evaluation for partial abductive inference in Bayesian networks by means of explanation set absorption. International Journal of Approximate Reasoning, 2001, 27, 121-142. | 1.9 | 4 |
| 69 | XML search personalization strategies using query expansion, reranking and a search engine modification. , 2013, , . | | 4 |
| 70 | Predicting IR personalization performance using pre-retrieval query predictors. Journal of Intelligent Information Systems, 2018, 51, 597-620. | 2.8 | 4 |
| 71 | A Lazy Approach for Filtering Parliamentary Documents. Lecture Notes in Computer Science, 2015, , 364-378. | 1.0 | 4 |
| 72 | Probabilistic Methods for Structured Document Classification at INEXâ€™07. Lecture Notes in Computer Science, 2008, , 195-206. | 1.0 | 4 |

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|---|---------|----|-----------| 
| 73 | New Utility Models for the Garnata Information Retrieval System at INEXâ€™08. Lecture Notes in Computer Science, 2009, , 39-45. | 1.0 | 4 |
| 74 | Removing partial inconsistency in valuation-based systems. International Journal of Intelligent Systems, 1997, 12, 629-653. | 3.3 | 3 |
| 75 | Probabilistic Methods for Link-Based Classification at INEX 2008. Lecture Notes in Computer Science, 2009, , 453-459. | 1.0 | 3 |
| 76 | Evaluation methods and strategies for the interactive use of classifiers. International Journal of Human Computer Studies, 2012, 70, 321-331. | 3.7 | 3 |
| 77 | Partial Abductive Inference in Bayesian Networks by Using Probability Trees. , 2004, , 146-154. | | 3 |
| 78 | Learning Right Sized Belief Networks by Means of a Hybrid Methodology. Lecture Notes in Computer Science, 2000, , 309-315. | 1.0 | 3 |
| 79 | Influence Diagrams and Structured Retrieval: Garnata Implementing the SID and CID Models at INEXâ€™06. Lecture Notes in Computer Science, 2007, , 165-177. | 1.0 | 3 |
| 80 | The Garnata Information Retrieval System at INEXâ€™07. Lecture Notes in Computer Science, 2008, , 57-69. | 1.0 | 3 |
| 81 | Estimating probability values from an incomplete dataset. International Journal of Approximate Reasoning, 2001, 27, 183-204. | 1.9 | 2 |
| 82 | An Information Retrieval System for Parliamentary Documents. , 0, , 203-223. | | 2 |
| 83 | Relevance Feedback in the Bayesian Network Retrieval Model: An Approach Based on Term Instantiation. Lecture Notes in Computer Science, 2001, , 13-23. | 1.0 | 2 |
| 84 | Partially Specified Belief Functions. , 1993, , 492-499. | | 2 |
| 85 | Stochastic Algorithms for Searching Causal Orderings in Bayesian Networks. Studies in Fuzziness and Soft Computing, 2002, , 327-340. | 0.6 | 2 |
| 86 | Content-Oriented Relevance Feedback in XML-IR Using the Garnata Information Retrieval System. Lecture Notes in Computer Science, 2009, , 617-628. | 1.0 | 2 |
| 87 | PMSC-UGR: A Test Collection for Expert Recommendation Based on PubMed and Scopus. Lecture Notes in Computer Science, 2018, , 34-43. | 1.0 | 2 |
| 88 | Hierarchical naive bayes models for representing user profiles. , 2008, , . | | 1 |
| 89 | A probabilistic methodology for multilabel classification. Intelligent Data Analysis, 2014, 18, 911-926. | 0.4 | 1 |
| 90 | On the selection of the correct number of terms for profile construction: Theoretical and empirical analysis. Information Sciences, 2018, 430-431, 142-162. | 4.0 | 1 |

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|---|---------|-----|-----------|
| 91 | Independence in Uncertainty Theories and Its Applications to Learning Belief Networks. , 2000, , 391-434. | | 1 |
| 92 | Concept Profiles for Filtering Parliamentary Documents. , 2015, , . | | 1 |
| 93 | Comparing Machine Learning and Information Retrieval-Based Approaches for Filtering Documents in a Parliamentary Setting. Lecture Notes in Computer Science, 2017, , 64-77. | 1.0 | 1 |
| 94 | Two term-layers: an alternative topology for representing term relationships in the Bayesian Network Retrieval Model. , 2003, , 213-223. | | 0 |
| 95 | On the Use of Restrictions for Learning Bayesian Networks. Lecture Notes in Computer Science, 2005, , 174-185. | 1.0 | 0 |
| 96 | Minimum redundancy maximum relevancy versus score-based methods for learning Markov boundaries. , 2011, , . | | 0 |
| 97 | Comparing monolithic and committee-based profiles for politician recommendation. , 2016, , . | | 0 |
| 98 | Content-based recommendation for Academic Expert finding. , 2018, , . | | 0 |
| 99 | Using Bayesian Networks to Model Emergency Medical Services. Lecture Notes in Computer Science, 2001, , 28-34. | 1.0 | 0 |
| 100 | Fast Propagation Algorithms for Singly Connected Networks and their Applications to Information Retrieval. Studies in Fuzziness and Soft Computing, 2004, , 271-288. | 0.6 | 0 |
| 101 | A Graphical Meta-Model for Reasoning about Bayesian Network Structure. Studies in Fuzziness and Soft Computing, 2004, , 201-216. | 0.6 | 0 |
| 102 | A Theoretical Framework for Web Categorization in Hierarchical Directories using Bayesian Networks. Studies in Fuzziness and Soft Computing, 2006, , 25-43. | 0.6 | 0 |
| 103 | USING STRUCTURAL KNOWLEDGE IN A CONTENT-BASED RECOMMENDER SYSTEM. , 2008, , . | | 0 |
| 104 | Thesaurus-Based Automatic Indexing. , 2009, , 331-345. | | 0 |
| 105 | Learning Parliamentary Profiles for Recommendation Tasks. Lecture Notes in Computer Science, 2015, , 187-197. | 1.0 | 0 |
| 106 | Improving Automatic Classifiers Through Interaction. Lecture Notes in Computer Science, 2016, , 3-13. | 1.0 | 0 |
| 107 | Retrieving Medical Records Using Bayesian Networks. , 0, , 2274-2280. | | 0 |