

# Pablo Castells

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

3,049  
citations

279798

23  
h-index

265206

42  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1885  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Rank and relevance in novelty and diversity metrics for recommender systems. , 2011, , .   |     | 377       |
| 2  | An Adaptation of the Vector-Space Model for Ontology-Based Information Retrieval. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 261-272.  | 5.7 | 315       |
| 3  | Semantically enhanced Information Retrieval: An ontology-based approach. Web Semantics, 2011, 9, 434-452.  | 2.9 | 195       |
| 4  | An Ontology-Based Information Retrieval Model. Lecture Notes in Computer Science, 2005, , 455-470.   | 1.3 | 143       |
| 5  | Novelty and Diversity in Recommender Systems. , 2015, , 881-918.   |     | 140       |
| 6  | Precision-oriented evaluation of recommender systems. , 2011, , .  |     | 121       |
| 7  | Statistical biases in Information Retrieval metrics for recommender systems. Information Retrieval, 2017, 20, 606-634.   | 2.0 | 95        |
| 8  | A multilayer ontology-based hybrid recommendation model. AI Communications, 2008, 21, 203-210.   | 1.2 | 72        |
| 9  | Automatising the learning of lexical patterns: An application to the enrichment of WordNet by extracting semantic relationships from Wikipedia. Data and Knowledge Engineering, 2007, 61, 484-499. | 3.4 | 67        |
| 10 | Ontology-Based Personalised and Context-Aware Recommendations of News Items. , 2008, , .   |     | 66        |
| 11 | Should I Follow the Crowd?. , 2018, , .  |     | 65        |
| 12 | Personalized Content Retrieval in Context Using Ontological Knowledge. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 336-346.  | 8.3 | 64        |
| 13 | Personalized information retrieval based on context and ontological knowledge. Knowledge Engineering Review, 2008, 23, 73-100.   | 2.6 | 61        |
| 14 | Automatic Extraction of Semantic Relationships for WordNet by Means of Pattern Learning from Wikipedia. Lecture Notes in Computer Science, 2005, , 67-79.  | 1.3 | 59        |
| 15 | A comparative study of heterogeneous item recommendations in social systems. Information Sciences, 2013, 221, 142-169.   | 6.9 | 59        |
| 16 | Automatic Assignment of Wikipedia Encyclopedic Entries to WordNet Synsets. Lecture Notes in Computer Science, 2005, , 380-386.   | 1.3 | 57        |
| 17 | Semantic Search Meets the Web. , 2008, , .   |     | 56        |
| 18 | Explicit relevance models in intent-oriented information retrieval diversification. , 2012, , .  |     | 50        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | An empirical comparison of social, collaborative filtering, and hybrid recommenders. ACM Transactions on Intelligent Systems and Technology, 2013, 4, 1-29.                              | 4.5 | 47        |
| 20 | Personalized diversification of search results. , 2012, , .  |     | 46        |
| 21 | On the robustness and discriminative power of information retrieval metrics for top-N recommendation. , 2018, , .  |     | 43        |
| 22 | Intent-oriented diversity in recommender systems. , 2011, , .  |     | 42        |
| 23 | Extracting multilayered Communities of Interest from semantic user profiles: Application to group modeling and hybrid recommendations. Computers in Human Behavior, 2011, 27, 1321-1336. | 8.5 | 41        |
| 24 | An Enhanced Semantic Layer for Hybrid Recommender Systems. International Journal on Semantic Web and Information Systems, 2011, 7, 44-78.  | 5.1 | 40        |
| 25 | Neighbor Selection and Weighting in User-Based Collaborative Filtering. ACM Transactions on the Web, 2014, 8, 1-30.  | 2.5 | 39        |
| 26 | News@hand: A Semantic Web Approach to Recommending News. Lecture Notes in Computer Science, 2008, , 279-283.   | 1.3 | 39        |
| 27 | Multilayered Semantic Social Network Modeling by Ontology-Based User Profiles Clustering: Application to Collaborative Filtering. Lecture Notes in Computer Science, 2006, , 334-349.    | 1.3 | 36        |
| 28 | Self-tuning Personalized Information Retrieval in an Ontology-Based Framework. Lecture Notes in Computer Science, 2005, , 977-986.   | 1.3 | 30        |
| 29 | Relevance-based language modelling for recommender systems. Information Processing and Management, 2013, 49, 966-980.  | 8.6 | 29        |
| 30 | A study of heterogeneity in recommendations for a social music service. , 2010, , .  |     | 29        |
| 31 | Assessing ranking metrics in top-N recommendation. Information Retrieval, 2020, 23, 411-448.   | 2.0 | 27        |
| 32 | Semi-automatic Semantic-Based Web Service Classification. Lecture Notes in Computer Science, 2006, , 459-470.  | 1.3 | 25        |
| 33 | A Probabilistic Reformulation of Memory-Based Collaborative Filtering. , 2017, , .   |     | 25        |
| 34 | Enhancing structural diversity in social networks by recommending weak ties. , 2018, , .   |     | 24        |
| 35 | Offline evaluation options for recommender systems. Information Retrieval, 2020, 23, 387-410.  | 2.0 | 24        |
| 36 | Bridging memory-based collaborative filtering and text retrieval. Information Retrieval, 2013, 16, 697-724.  | 2.0 | 23        |

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|----|---|-----|-----------|
| 37 | A Multi-Purpose Ontology-Based Approach for Personalised Content Filtering and Retrieval. Studies in Computational Intelligence, 2008, , 25-51.             | 0.9 | 21        |
| 38 | Semantic Web Technologies for Economic and Financial Information Management. Lecture Notes in Computer Science, 2004, , 473-487.                            | 1.3 | 21        |
| 39 | A Heuristic Approach to Semantic Web Services Classification. Lecture Notes in Computer Science, 2006, , 598-605.   | 1.3 | 20        |
| 40 | XBRL Taxonomies and OWL Ontologies for Investment Funds. Lecture Notes in Computer Science, 2006, , 271-280.  | 1.3 | 16        |
| 41 | Novelty and Diversity in Recommender Systems. , 2022, , 603-646.  |     | 16        |
| 42 | A Performance Prediction Approach to Enhance Collaborative Filtering Performance. Lecture Notes in Computer Science, 2010, , 382-393.                       | 1.3 | 14        |
| 43 | Using historical data to enhance rank aggregation. , 2006, , .  |     | 12        |
| 44 | A Multi-Purpose Ontology-Based Approach for Personalized Content Filtering and Retrieval. , 2006, , .   |     | 11        |
| 45 | Offline recommender system evaluation: Challenges and new directions. AI Magazine, 2022, 43, 225-238.   | 1.6 | 11        |
| 46 | Providing end-user facilities to simplify ontology-driven web application authoring. Interacting With Computers, 2007, 19, 563-585.                         | 1.5 | 10        |
| 47 | Self-adjusting hybrid recommenders based on social network analysis. , 2011, , .  |     | 10        |
| 48 | Effective contact recommendation in social networks by adaptation of information retrieval models. Information Processing and Management, 2020, 57, 102285. | 8.6 | 10        |
| 49 | Popularity Bias in False-positive Metrics for Recommender Systems Evaluation. ACM Transactions on Information Systems, 2021, 39, 1-43.                      | 4.9 | 10        |
| 50 | Text Retrieval Methods for Item Ranking in Collaborative Filtering. Lecture Notes in Computer Science, 2011, , 301-306.                                     | 1.3 | 10        |
| 51 | Declarative models of presentation. , 1997, , .   |     | 9         |
| 52 | Predicting the Performance of Recommender Systems: An Information Theoretic Approach. Lecture Notes in Computer Science, 2011, , 27-39.                     | 1.3 | 9         |
| 53 | Effects of Usage-Based Feedback on Video Retrieval. ACM Transactions on Information Systems, 2011, 29, 1-32.  | 4.9 | 8         |
| 54 | The Dagstuhl Perspectives Workshop on Performance Modeling and Prediction. ACM SIGIR Forum, 2018, 52, 91-101.   | 0.5 | 8         |

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|----|---|-----|-----------|
| 55 | A generic presentation modeling system for adaptive web-based instructional applications. , 2001, , .   |     | 7         |
| 56 | An Authoring Tool for Building Adaptive Learning Guidance Systems on the Web. Lecture Notes in Computer Science, 2001, , 268-278.   | 1.3 | 7         |
| 57 | Dynamic web page authoring by example using ontology-based domain knowledge. , 2003, , .  |     | 7         |
| 58 | A Flexible Model for Locating Services on the Web. International Journal of Electronic Commerce, 2007, 12, 11-40.   | 3.0 | 7         |
| 59 | Ontology-Based Retrieval of Human Speech. , 2007, , .   |     | 7         |
| 60 | Contact Recommendations in Social Networks. , 2018, , 519-569.  |     | 7         |
| 61 | Tailoring dynamic ontology-driven web documents by demonstration. , 0, , .  |     | 6         |
| 62 | Inferring user intent in web search by exploiting social annotations. , 2010, , .   |     | 6         |
| 63 | Report on the workshop on reproducibility and replication in recommender systems evaluation (RepSys). ACM SIGIR Forum, 2014, 48, 29-35.   | 0.5 | 6         |
| 64 | Enriching Group Profiles with Ontologies for Knowledge-Driven Colaborative Content Retrieval. , 2006, , .   |     | 5         |
| 65 | Semantic Web Technologies For The Financial Domain. , 2007, , 41-74.  |     | 5         |
| 66 | Probabilistic collaborative filtering with negative cross entropy. , 2013, , .  |     | 4         |
| 67 | Model-Based User Interface Reengineering. , 2006, , 155-162.  |     | 4         |
| 68 | An Ontology-Based Approach to the Description and Execution of Composite Network Management Processes for Network Monitoring. Lecture Notes in Computer Science, 2006, , 86-97. | 1.3 | 4         |
| 69 | Predicting Neighbor Goodness in Collaborative Filtering. Lecture Notes in Computer Science, 2009, , 605-616.  | 1.3 | 4         |
| 70 | Discerning Relevant Model Features in a Content-based Collaborative Recommender System. , 2010, , 429-455.  |     | 4         |
| 71 | Finding Iteration Patterns in Dynamic Web Page Authoring. Lecture Notes in Computer Science, 2005, , 164-178.   | 1.3 | 2         |
| 72 | Personalization and Recommendation in Information Access. Information Processing and Management, 2013, 49, 637-639.   | 8.6 | 2         |

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|----|--|-----|-----------|
| 73 | Presentation Models by Example. Eurographics, 1999, , 100-116.   | 0.4 | 2         |
| 74 | Signal, image and video processing (SIVP) special issue on "multimedia semantics, adaptation and personalization" Editorial. Signal, Image and Video Processing, 2008, 2, 287-288. | 2.7 | 1         |
| 75 | Semantically Enhanced Information Retrieval: An Ontology-Based Approach. SSRN Electronic Journal, 2011, , .  | 0.4 | 1         |
| 76 | Structured collaborative filtering. , 2011, , .  |     | 1         |
| 77 | Report on the SIGIR 2013 workshop on benchmarking adaptive retrieval and recommender systems. ACM SIGIR Forum, 2013, 47, 64-67.  | 0.5 | 1         |
| 78 | Information Retrieval Models for Contact Recommendation in Social Networks. Lecture Notes in Computer Science, 2019, , 148-163.  | 1.3 | 1         |
| 79 | An Enhanced Semantic Layer for Hybrid Recommender Systems. , 2013, , 235-269.  |     | 1         |
| 80 | Axiomatic Analysis of Contact Recommendation Methods in Social Networks: An IR Perspective. Lecture Notes in Computer Science, 2020, , 175-190.                                    | 1.3 | 1         |
| 81 | Applying soft links to diversify video recommendations. , 2011, , .  |     | 0         |
| 82 | Recommending Contacts in Social Networks Using Information Retrieval Models. , 2018, , .   |     | 0         |
| 83 | Beyond Accuracy in Link Prediction. Communications in Computer and Information Science, 2020, , 79-94.   | 0.5 | 0         |