Tommaso Di Noia

List of Publications by Year
in descending order

132 papers	2,294 citations	304743 22 h-index	361022 35 g-index
134 all docs	134 docs citations	134 times ranked	1424 citing authors

#	Article	IF	Citations
1	Linked open data to support content-based recommender systems. , 2012, , .		162
2	Top-N recommendations from implicit feedback leveraging linked open data. , 2013, , .		101
3	RDF2Vec: RDF graph embeddings and their applications. Semantic Web, 2019, 10, 721-752.	1.9	94
4	A Survey on Adversarial Recommender Systems. ACM Computing Surveys, 2022, 54, 1-38.	23.0	87
5	Sound and Music Recommendation with Knowledge Graphs. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-21.	4.5	76
6	Concept abduction and contraction for semantic-based discovery of matches and negotiation spaces in an e-marketplace. Electronic Commerce Research and Applications, 2005, 4, 345-361.	5.0	73
7	A System for Principled Matchmaking in an Electronic Marketplace. International Journal of Electronic Commerce, 2004, 8, 9-37.	3.0	71
8	An end stage kidney disease predictor based on an artificial neural networks ensemble. Expert Systems With Applications, 2013, 40, 4438-4445.	7.6	60
9	SPrank. ACM Transactions on Intelligent Systems and Technology, 2017, 8, 1-34.	4.5	59
10	Addressing the user cold start with cross-domain collaborative filtering: exploiting item metadata in matrix factorization. User Modeling and User-Adapted Interaction, 2019, 29, 443-486.	3.8	56
11	A system for principled matchmaking in an electronic marketplace. , 2003, , .		49
12	Exploiting the web of data in model-based recommender systems. , 2012, , .		47
13	Development and testing of an artificial intelligence tool for predicting end-stage kidney disease in patients with immunoglobulin A nephropathy. Kidney International, 2021, 99, 1179-1188.	5.2	47
14	Adaptive multi-attribute diversity for recommender systems. Information Sciences, 2017, 382-383, 234-253.	6.9	42
15	A Nonmonotonic Approach to Semantic Matchmaking and Request Refinement in E-Marketplaces. International Journal of Electronic Commerce, 2007, 12, 127-154.	3.0	40
16	Elliot: A Comprehensive and Rigorous Framework for Reproducible Recommender Systems Evaluation. , 2021, , .		39
17	An evaluation of SimRank and Personalized PageRank to build a recommender system for the Web of Data. , 2015, , .		38
18	Clinical decision support system for end-stage kidney disease risk estimation in IgA nephropathy patients. Nephrology Dialysis Transplantation, 2016, 31, 80-86.	0.7	38

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19	High Dynamic Range Power Consumption Measurement in Microcontroller-Based Applications. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1968-1976.	4.7	32
20	Explaining recommender systems fairness and accuracy through the lens of data characteristics. Information Processing and Management, 2021, 58, 102662.	8.6	32
21	A flexible framework for evaluating user and item fairness in recommender systems. User Modeling and User-Adapted Interaction, 2021, 31, 457-511.	3.8	31
22	Fuzzy matchmaking in e-marketplaces of peer entities using Datalog. Fuzzy Sets and Systems, 2009, 160, 251-268.	2.7	29
23	Ranking the Linked Data: The Case of DBpedia. Lecture Notes in Computer Science, 2010, , 337-354.	1.3	28
24	How Dataset Characteristics Affect the Robustness of Collaborative Recommendation Models. , 2020, , .		28
25	Fully Automated Web Services Discovery and Composition Through Concept Covering and Concept Abduction. International Journal of Web Services Research, 2007, 4, 85-112.	0.8	28
26	A fuzzy ontology-based approach for tool-supported decision making in architectural design. Knowledge and Information Systems, 2019, 58, 83-112.	3.2	26
27	Semantic-Based Bluetooth-RFID Interaction for Advanced Resource Discovery in Pervasive Contexts. International Journal on Semantic Web and Information Systems, 2008, 4, 50-74.	5.1	25
28	Formalizing interactive staged feature model configuration. Journal of Software: Evolution and Process, 2012, 24, 375-400.	1.6	24
29	Configuring Software Product Line Feature Models Based on Stakeholders' Soft and Hard Requirements. Lecture Notes in Computer Science, 2010, , 16-31.	1.3	23
30	Concept abduction and contraction for semantic-based discovery of matches and negotiation spaces in an e-marketplace. , 2004, , .		22
31	Vague Knowledge Bases for Matchmaking in P2P E-Marketplaces. Lecture Notes in Computer Science, 2007, , 414-428.	1.3	21
32	Semantic Wonder Cloud: Exploratory Search in DBpedia. Lecture Notes in Computer Science, 2010, , 138-149.	1.3	21
33	Adversarial Machine Learning in Recommender Systems (AML-RecSys). , 2020, , .		21
34	Recommender systems under European AI regulations. Communications of the ACM, 2022, 65, 69-73.	4.5	21
35	Semantic-enhanced Bluetooth discovery protocol for m-commerce applications. International Journal of Web and Grid Services, 2006, 2, 424.	0.5	20
36	Knowledge-aware Autoencoders for Explainable Recommender Systems. , 2018, , .		20

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37	Reenvisioning the comparison between Neural Collaborative Filtering and Matrix Factorization. , 2021, , .		20
38	How to Make Latent Factors Interpretable by Feeding Factorization Machines with Knowledge Graphs. Lecture Notes in Computer Science, 2019, , 38-56.	1.3	20
39	Patient classification and outcome prediction in IgA nephropathy. Computers in Biology and Medicine, 2015, 66, 278-286.	7.0	19
40	An Analysis on Time- and Session-aware Diversification in Recommender Systems. , 2017, , .		17
41	Local Popularity and Time inÂtop-N Recommendation. Lecture Notes in Computer Science, 2019, , 861-868.	1.3	17
42	An Efficient Data Compression Algorithm for Semantic-Based Ubiquitous Computing Applications. , 2007, , .		16
43	Schema-summarization in linked-data-based feature selection for recommender systems. , 2017, , .		16
44	Knowledge-aware and conversational recommender systems. , 2018, , .		15
45	On the discriminative power of hyper-parameters in cross-validation and how to choose them. , 2019, , .		15
46	Extending Semantic-Based Matchmaking via Concept Abduction and Contraction. Lecture Notes in Computer Science, 2004, , 307-320.	1.3	15
47	If objects could talk: a novel resource discovery approach for pervasive environments. International Journal of Internet Protocol Technology, 2007, 2, 199.	0.2	14
48	TAaMR: Targeted Adversarial Attack against Multimedia Recommender Systems. , 2020, , .		14
49	A community-built calibration system: The case study of quantification of metabolites in grape juice by qNMR spectroscopy. Talanta, 2020, 214, 120855.	5.5	14
50	FedeRank: User Controlled Feedback with Federated Recommender Systems. Lecture Notes in Computer Science, 2021, , 32-47.	1.3	14
51	SAShA: Semantic-Aware Shilling Attacks on Recommender Systems Exploiting Knowledge Graphs. Lecture Notes in Computer Science, 2020, , 307-323.	1.3	14
52	Logic-based automated multi-issue bilateral negotiation in peer-to-peer e-marketplaces. Autonomous Agents and Multi-Agent Systems, 2008, 16, 249-270.	2.1	13
53	Using Ontology-Based Data Summarization to Develop Semantics-Aware Recommender Systems. Lecture Notes in Computer Science, 2018, , 128-144.	1.3	13
54	Semantic Interpretation of Top-N Recommendations. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 2416-2428.	5.7	13

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55	How to put users in control of their data in federated top-N recommendation with learning to rank. , 2021, , .		13
56	Towards Effective Device-Aware Federated Learning. Lecture Notes in Computer Science, 2019, , 477-491.	1.3	13
57	Propositional-logic approach to one-shot multi issue bilateral negotiation. , 2006, 5, 11-21.		13
58	Prediction of chronic kidney disease and its progression by artificial intelligence algorithms. Journal of Nephrology, 2022, 35, 1953-1971.	2.0	13
59	A semantic-based fully visual application for matchmaking and query refinement in B2C e-marketplaces. , 2006, , .		12
60	From exploratory search to web search and back. , 2010, , .		12
61	Semantic-based resource discovery, composition and substitution in IEEE 802.11 mobile ad hoc networks. Wireless Networks, 2010, 16, 1223-1251.	3.0	11
62	Sparse Feature Factorization for Recommender Systems with Knowledge Graphs. , 2021, , .		11
63	Dietary Patterns Associated with Diabetes in an Older Population from Southern Italy Using an Unsupervised Learning Approach. Sensors, 2022, 22, 2193.	3.8	11
64	RFID meets bluetooth in a semantic based u-commerce environment. , 2007, , .		9
65	Semantic tags generation and retrieval for online advertising. , 2010, , .		9
66	Building a relatedness graph from Linked Open Data: A case study in the IT domain. Expert Systems With Applications, 2016, 44, 354-366.	7.6	9
67	Towards a Fuzzy Logic for Automated Multi-issue Negotiation. Lecture Notes in Computer Science, 2008, , 381-396.	1.3	9
68	Knowledge elicitation for query refinement in a semantic-enabled e-marketplace. , 2005, , .		8
69	Alternating-Offers Protocol for Multi-issue Bilateral Negotiation in Semantic-Enabled Marketplaces. Lecture Notes in Computer Science, 2007, , 395-408.	1.3	8
70	PrOnto: an Ontology Driven Business Process Mining Tool. Procedia Computer Science, 2017, 112, 306-315.	2.0	8
71	Semantics-Aware Autoencoder. IEEE Access, 2019, 7, 166122-166137.	4.2	8
72	A Quality Model for Linked Data Exploration. Lecture Notes in Computer Science, 2016, , 397-404.	1.3	8

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73	Weighted Description Logics Preference Formulas for Multiattribute Negotiation. Lecture Notes in Computer Science, 2009, , 193-205.	1.3	8
74	Semantic Tag Cloud Generation via DBpedia. Lecture Notes in Business Information Processing, 2010, , 36-48.	1.0	8
75	Reasoning in Pervasive Environments: An Implementation of Concept Abduction with Mobile OODBMS. , 2009, , .		7
76	A Proposal of Case-Based Approach to Clinical Pathway Modeling Support. , 2020, , .		7
77	Computing Utility from Weighted Description Logic Preference Formulas. Lecture Notes in Computer Science, 2010, , 158-173.	1.3	7
78	VERBUM â€" virtual enhanced reality for building modelling (virtual technical tour in digital twins for) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.1	7
79	Artificial intelligence in glomerular diseases. Pediatric Nephrology, 2022, 37, 2533-2545.	1.7	7
80	Preference Queries with Ceteris Paribus Semantics for Linked Data. Lecture Notes in Computer Science, 2015, , 423-442.	1.3	6
81	Combining RDF and SPARQL with CP-theories to reason about preferences in a Linked Data setting. Semantic Web, 2020, 11, 391-419.	1.9	6
82	User Feedback to Improve the Performance of a Cyberattack Detection Artificial Intelligence System in the e-Health Domain. Lecture Notes in Computer Science, 2021, , 295-299.	1.3	6
83	MSAP: Multi-Step Adversarial Perturbations on Recommender Systems Embeddings. Proceedings of the … International Florida Artificial Intelligence Research Society Conference, 2021, 34, .	0.3	6
84	Towards a Trustworthy Patient Home-Care Thanks to an Edge-Node Infrastructure. Lecture Notes in Computer Science, 2020, , 181-189.	1.3	6
85	Exposing Open Street Map in the Linked Data Cloud. Lecture Notes in Computer Science, 2016, , 344-355.	1.3	6
86	User-controlled federated matrix factorization for recommender systems. Journal of Intelligent Information Systems, 2022, 58, 287-309.	3.9	6
87	Dietary Customs and Social Deprivation in an Aging Population From Southern Italy: A Machine Learning Approach. Frontiers in Nutrition, 2022, 9, 811076.	3.7	6
88	Integrating Radio Frequency Object Discovery and Bluetooth for Semantic-Based M-Commerce. , 2007, , .		5
89	A semantic-based mobile registry for dynamic RFID-based logistics support. , 2008, , .		5
90	2nd Workshop on Knowledge-aware and Conversational Recommender Systems - KaRS. , 2019, , .		5

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91	Prioritized multi-criteria federated learning. Intelligenza Artificiale, 2021, 14, 183-200.	1.6	5
92	Management at the Edge of Situation Awareness During Patient Telemonitoring. Lecture Notes in Computer Science, 2021, , 372-387.	1.3	5
93	Ontology-Driven Pattern Selection and Matching in Software Design. Lecture Notes in Computer Science, 2014, , 82-89.	1.3	5
94	A Semantic Web Enabled System for Résumé Composition and Publication. , 2009, , .		4
95	Recommender Systems Meet Linked Open Data. Lecture Notes in Computer Science, 2016, , 620-623.	1.3	4
96	GUapp: A Conversational Agent for Job Recommendation for the Italian Public Administration. , 2020, , .		4
97	Extending Propositional Logic with Concrete Domains for Multi-issue Bilateral Negotiation. Lecture Notes in Computer Science, 2008, , 211-226.	1.3	4
98	Increasing Bid Expressiveness for Effective and Balanced E-Barter Trading. Lecture Notes in Computer Science, 2009, , 128-142.	1.3	4
99	The importance of being dissimilar in recommendation. , 2019, , .		4
100	MoSAIC. , 2018, , .		3
101	Deep Learning-Based Adaptive Image Compression System for a Real-World Scenario. , 2020, , .		3
102	Reasoning with Semantic-Enabled Qualitative Preferences. Lecture Notes in Computer Science, 2013, , 374-386.	1.3	3
103	Adversarial Learning for Recommendation: Applications for Security and Generative Tasks â€" Concept to Code. , 2020, , .		3
104	Description Logics Approach to Semantic Matching of Web Services. Journal of Computing and Information Technology, 2003, 11, 217.	0.3	3
105	When price is not enough. , 2007, , .		2
106	Automated building blocks selection based on business processes semantics in ERPs. Service Oriented Computing and Applications, 2007, 1, 171-184.	1.6	2
107	Abduction and Contraction for Semantic-Based Mobile Dating in P2P Environments. , 2008, , .		2
108	A semantic-based registry enabling discovery, composition and substitution of pervasive services. , 2008, , .		2

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109	Computing Information Minimal Match Explanations for Logic-Based Matchmaking. , 2009, , .		2
110	Ubiquitous knowledge-based framework for RFID semantic discovery in smart u-Commerce environments. , 2009, , .		2
111	A pre-process clustering methods for the waste collection problem. , 2017, , .		2
112	Reflective Internet of Things Middleware-Enabled a Predictive Real-Time Waste Monitoring System. Lecture Notes in Computer Science, 2018, , 375-383.	1.3	2
113	Semantic-Based Top-k Retrieval for Competence Management. Lecture Notes in Computer Science, 2009, , 473-482.	1.3	2
114	Recommender Systems Based on Linked Open Data. , 2018, , 2064-2080.		2
115	Introduction to the Special Issue: Semantic Matchmaking and Resource Retrieval on the Web. International Journal of Electronic Commerce, 2007, 12, 5-9.	3.0	1
116	A Semantic-Enabled Mobile Directory Service for RFID-Based Logistics Applications. , 2008, , .		1
117	Semantic-enabled Resource Discovery, Composition and Substitution in 802.11 Pervasive Environments. , 2009, , .		1
118	Web 3.0 in action. , 2012, , .		1
119	Brain Computer Interface, Visual Tracker and Artificial Intelligence for a Music Polyphony Generation System. Lecture Notes in Computer Science, 2021, , 368-371.	1.3	1
120	MO260PERFORMANCE ANALYSIS OF AN ARTIFICIAL NEURAL NETWORK TOOL TO PREDICT ESKD IN PATIENTS WITH IMMUNOGLOBULIN A NEPHROPATHY (IGAN). Nephrology Dialysis Transplantation, 2021, 36, .	0.7	1
121	Third Knowledge-aware and Conversational Recommender Systems Workshop (KaRS). , 2021, , .		1
122	A Biofeedback System to Compose Your Own Music While Dancing. Lecture Notes in Computer Science, 2021, , 309-312.	1.3	1
123	Explanation Services and Request Refinement in User Friendly Semantic-Enabled B2C E-Marketplaces. Lecture Notes in Computer Science, 2006, , 13-27.	1.3	1
124	A Matchmaking Architecture to Support Innovation by Fostering Supply and Demand of Venture Capital. Lecture Notes in Computer Science, 2008, , 61-70.	1.3	1
125	Preface to the Special Issue on Recommender Systems. Journal on Data Semantics, 2017, 6, 1-1.	2.0	0
126	Towards real-time monocular depth estimation for mobile systems. , 2021, , .		0

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127	Semantic Bayesian Profiling Services for Information Recommendation. Lecture Notes in Computer Science, 2007, , 711-719.	1.3	0
128	Efficient Automatic Selection of Semantically-Annotated Building Blocks for ERPs Customizing. Lecture Notes in Computer Science, 2007, , 233-244.	1.3	0
129	Electronic Markets, a Look Behind the Curtains: How Can Semantic Matchmaking and Negotiation Boost E-Commerce?. Lecture Notes in Business Information Processing, 2010, , 241-252.	1.0	0
130	Semantic Matchmaking and Ranking: Beyond Deduction in Retrieval Scenarios. Lecture Notes in Computer Science, 2012, , 5-8.	1.3	0
131	Recommender Systems Based on Linked Open Data. , 2017, , 1-17.		0
132	FC048: New Tool to Predict the Clinical Course and Renal Failure in Patients with Immunoglobulin a Nephropathy. Nephrology Dialysis Transplantation, 2022, 37, .	0.7	0