

Literature Reading

Publications by type

Papers only

- [1] Pek Van Anandel. “Anatomy of the unsought finding. Serendipity: origin, history, domains, traditions, appearances, patterns and programmability”. In: *The British Journal for the Philosophy of Science* 45.2 (June 1994), pp. 631–648. URL: <http://www.jstor.org/stable/687687>.
- [2] Isabelle Augenstein. “Joint Information Extraction from the Web using Linked Data”. In: *Proceedings of the 13th International Semantic Web Conference Part II, Lecture Notes in Computer Series*. Ed. by Peter Mika et al. Vol. 8797. ISWC’14. ISWC: International Semantic Web Conference. Riva del Garda, Italy: Springer-Verlag, Oct. 2014, pp. 505–512. DOI: 10.1007/978-3-319-11915-1_32. URL: https://link.springer.com/content/pdf/10.1007%2F978-3-319-11915-1_32.pdf.
- [3] Molood Barati, Quan Bai, and Qing Liu. “SWARM: An Approach for Mining Semantic Association Rules from Semantic Web Data”. In: *Trends in Artificial Intelligence, Lecture Notes in Computer Science*. Ed. by Booth R. and Zhang ML. Vol. 9810. PRICAI’16. PRICAI: Pacific Rim International Conference on Artificial Intelligence. Phuket, Thailand: Springer, Aug. 2016, pp. 30–43. DOI: 10.1007/978-3-319-42911-3_3. URL: https://link.springer.com/chapter/10.1007/978-3-319-42911-3_3.
- [4] Khalid Belhajjame et al. “Workflowcentric research objects: First class citizens in scholarly discourse”. In: *Proceedings of the International Workshop on the Future of Scholarly Communication and Scientific Publishing*. Ed. by Frank Van Harmelen et al. Vol. 903. SePublica’12. SePublica: Semantic Publishing. Hersonissos, Crete, Greece: CEUR-WS.org, May 2012, pp. 1–12. URL: <http://ceur-ws.org/Vol-903/paper-01.pdf>.
- [5] Alex Beutel et al. “Beyond globally optimal: Focused Learning for improved recommendations”. In: *Proceedings of the 26th International Conference on World Wide Web*. WWW’17. WWW: World Wide Web Conference. Perth, Australia: International World Wide Web Conferences Steering Committee, Apr. 2017, pp. 203–212. DOI: 10.1145/3038912.3052713. URL: http://alexbeutel.com/papers/www2017_focused_learning.pdf.
- [6] Kevin W. Boyack, Richard Klavans, and Katy Börner. “Mapping the backbone of science”. In: *Scientometrics* 64.3 (2005), pp. 351–374. DOI: 10.1007/s11192-005-0255-6. URL: <https://link.springer.com/article/10.1007/s11192-005-0255-6>.

- [7] Davide Ceolin, Lora Aroyo, and Julia Noordegraaf. “Identifying and classifying uncertainty layers in Web document quality assessment”. In: *Proceedings of the 12th International Workshop on Uncertainty Reasoning for the Semantic Web*. Vol. 1665. USRW’16. URSW: Uncertainty Reasoning for the Semantic Web. Kobe, Japan: CEUR-WS.org, 2016, pp. 61–64. URL: <http://ceur-ws.org/Vol-1665/paper6.pdf>.
- [8] Davide Ceolin, Julia Noordegraaf, and Lora Aroyo. “Capturing the ineffable: collecting, analysing, and automating Web document quality assessments”. In: *Proceedings of the 20th International Conference on Knowledge Engineering and Knowledge Management, Lecture Notes in Computer Science*. Ed. by Eva Blomqvist et al. Vol. 10024. EKAW’16. EKAW: European Knowledge Acquisition Workshop. Bologna, Italy: Springer, Nov. 2016, pp. 83–97. DOI: 10.1007/978-3-319-49004-5_6. URL: link.springer.com/content/pdf/10.1007%2F978-3-319-49004-5_6.pdf.
- [9] Davide Ceolin et al. “Towards Web documents quality assessment for digital humanities scholars”. In: *Proceedings of the 8th ACM Conference on Web Science*. Ed. by Wolfgang Nejdl et al. WebSci’16. WebSci: Web Science. Hannover, Germany: ACM, May 2016, pp. 315–317. DOI: 10.1145/2908131.2908198. URL: <http://delivery.acm.org/10.1145/2910000/2908198/p315-ceolin.pdf>.
- [10] Paolo Ciancarini et al. “Semantic annotation of scholarly documents and citations”. In: *Congress of the Italian Association for Artificial Intelligence, Advances in Artificial Intelligence, Lecture Notes in Computer Science*. Vol. 8249. AI*IA’13. AI*IA: Advances in Artificial Intelligence. Cham, Switzerland: Springer, 2013, pp. 336–347. DOI: 10.1007/978-3-319-03524-6_29. URL: https://link.springer.com/chapter/10.1007/978-3-319-03524-6_29.
- [11] Paolo Cicarese et al. “CiTO + SWAN: The Web Semantics of Bibliographic Records, Citations, Evidence and Discourse Relationships”. In: *Semantic Web 5.4* (Oct. 2014), pp. 295–311. DOI: 10.3233/SW-130098. URL: http://semantic-web-journal.net/sites/default/files/swj175_0.pdf.
- [12] Tim Clark, Paolo N. Cicarese, and Carole A. Goble. “Micropublications: a semantic model for claims, evidence, arguments and annotations in biomedical communications”. In: *Journal of Biomedical Semantics* 5.28 (2014). DOI: 10.1186/2041-1480-5-28. URL: <https://jbiomedsem.biomedcentral.com/articles/10.1186/2041-1480-5-28>.
- [13] Alexandru Constantin et al. “The Document Components Ontology (DoCO)”. In: *Semantic Web 7.2* (Feb. 2016), pp. 167–181. DOI: 10.3233/SW-150177. URL: <http://content.iospress.com/download/semantic-web/sw177?id=semantic-web%2Fsw177>.
- [14] Jeremy Debattista, Christoph Lange, and Sören Auer. “daQ, an ontology for dataset quality information”. In: *Proceedings of the Workshop on Linked Data on the Web*. Ed. by Christian Bizer et al. Vol. 1184. LDOW’14. LDOW: Linked Data on the Web. Seoul, Korea: CEUR-WS.org, Apr. 2014. URL: http://ceur-ws.org/Vol-1184/ldow2014_paper_09.pdf.

- [15] Jeremy Debattista, Christoph Lange, and Sören Auer. “Representing dataset quality metadata using multi-dimensional views”. In: *International Conference on Semantic Systems*. SEM: Semantic Systems. Leipzig, Germany: ACM, Sept. 2014, pp. 92–99. DOI: 10.1145/2660517.2660525. URL: dl.acm.org/ft_gateway.cfm?ftid=1497526&id=2660525.
- [16] Lee Feigenbaum et al. “The Semantic Web in action”. In: *Scientific American* 297.6 (Dec. 2007), pp. 64–71. DOI: 10.1038/scientificamerican1207-90. URL: <https://www.scientificamerican.com/article/semantic-web-in-action/>.
- [17] Antske Fokkens et al. “Offspring from reproduction problems: what replication failure teaches us”. In: *Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics*. ACL’13. ACL: Association of Computational Linguistics. Sofia, Bulgaria: Association for Computational Linguistics, Aug. 2013, pp. 1691–1701. URL: <https://aclweb.org/anthology/P/P13/P13-1166.pdf>.
- [18] Antske Fokkens et al. “On the semantics of concept drift: towards formal definitions of semantic change”. In: *Proceedings of the 1st Workshop on Detection, Representation and Management of Concept Drift in Linked Open Data*. Ed. by S. Darányi et al. Vol. 1799. Drift-a-LOD’16. Drift-a-LOD: Detection, Representation and Management of Concept Drift in Linked Open Data. Bologna, Italy: CEUR-WS.org, Nov. 2016, pp. 10–17. URL: http://ceur-ws.org/Vol-1799/Drift-a-LOD2016_paper_2.pdf.
- [19] Aldo Gangemi et al. “The Publishing Workflow Ontology (PWO)”. In: *Semantic Web* (2016), pp. 1–12. DOI: 1570-0844/0-1900. URL: <http://www.semantic-web-journal.net/system/files/swj1301.pdf>.
- [20] Paul Groth, Andrew Gibson, and Johannes Velterop. “The anatomy of a nano-publication”. In: *Information Services and Use* 30.1-2 (2010), pp. 51–56. DOI: 10.3233/ISU-2010-0613. URL: <http://content.iospress.com/download/information-services-and-use/isu613?id=information-services-and-use%2Fisu613>.
- [21] Claus Huitfeldt, Fabio Vitali, and Silvio Peroni. “Documents as Timed Abstract Objects”. In: *Balisage: The Markup Conference, Balisage Series on Markup Technologies*. Vol. 8. BSMT’12. BSMT: Balisage Series on Markup Technologies. Montréal, Canada, Aug. 2012. DOI: 0.4242/BalisageVol8.Huitfeldt01. URL: <https://www.balisage.net/Proceedings/vol8/html/Huitfeldt01/BalisageVol8-Huitfeldt01.html>.
- [22] Angelo Di Iorio, Silvio Peroni, and Fabio Vitali. “A Semantic Web approach to everyday overlapping markup”. In: *Journal of the American Society for Information Science and Technology* 62.9 (Sept. 2011), pp. 1696–1716. DOI: 10.1002/asi.21591. URL: <http://onlinelibrary.wiley.com/doi/10.1002/asi.21591/full>.
- [23] Angelo Di Iorio, Silvio Peroni, and Fabio Vitali. “Using semantic web technologies for analysis and validation of structural markup”. In: *International Journal of Web Engineering and Technology* 6.4 (Oct. 2011), pp. 375–398. DOI: 10.1504/IJWET.2011.043439. URL: https://www.researchgate.net/publication/220639529_Using_Semantic_Web_technologies_for_analysis_and_validation_of_structural_markup.

- [24] Angelo Di Iorio et al. “Crowdsourcing semantic content: a model and two applications”. In: *Proceedings of the 2010 International Conference on Human System Interaction*. HSI’10. HSI: Human System Interaction. Rzeszów, Poland: IEEE, May 2010, pp. 563–570. DOI: 10.1109/HSI.2010.5514513. URL: <http://ieeexplore.ieee.org/document/5514513/>.
- [25] Angelo Di Iorio et al. “Describing bibliographic references in RDF”. In: *Workshop on Semantic Publishing, CEUR Workshop Proceedings*. Ed. by A.G. Castro et al. Vol. 1155. SePublica’14. ceur-ws.org, 2014, pp. 41–56. URL: <http://ceur-ws.org/Vol-1155/paper-05.pdf>.
- [26] Angelo Di Iorio et al. “Faceted documents: describing document characteristics using semantic lenses”. In: *International Conference on Linked Science*. Vol. 1282. LISC’14. LISC: Linked Science Conference. Riva del Garda, Italy: CEUR-WS.org, 2014, pp. 12–23. URL: dl.acm.org/ft_gateway.cfm?id=2361396.
- [27] Tobias Kuhn and Michel Dumontier. “Making Digital Artifacts on the Web Verifiable and Reliable”. In: *IEEE Transactions on Knowledge and Data Engineering* 27.9 (Sept. 2015), pp. 2390–2400. DOI: 10.1109/TKDE.2015.2419657.
- [28] Tobias Kuhn and Michel Dumontier. “Trusty URIs: Verifiable, Immutable, and Permanent Digital Artifacts for Linked Data”. In: *Proceedings of the 2014 European Semantic Web Conference, The Semantic Web: Trends and Challenges, Lecture Notes in Computer Science*, ed. by Presutti V. et al. Vol. 8465. ESWC’14. ESWC: European Semantic Web Conference. Anissara/Hersonissou, Crete, Greece: Springer, 2014, pp. 395–410. DOI: 10.1007/978-3-319-07443-6_27. URL: https://link.springer.com/chapter/10.1007/978-3-319-07443-6_27.
- [29] Tobias Kuhn et al. “Broadening the Scope of Nanopublications”. In: *Proceedings of the 2013 European Semantic Web Conference, The Semantic Web: Semantics and Big Data, Lecture Notes in Computer Science*. Vol. 7882. ESWC’13. ESWC: European Semantic Web Conference. Montpellier, France: Springer, May 2013, pp. 487–501. DOI: 10.1007/978-3-642-38288-8_33. URL: https://link.springer.com/chapter/10.1007/978-3-642-38288-8_33.
- [30] Tobias Kuhn et al. “Decentralized provenance-aware publishing with nanopublications”. In: *PeerJ Computer Science* (2016). DOI: 10.7717/peerj-cs.78. URL: <https://peerj.com/preprints/1760/>.
- [31] Valentina Maccatrozzo et al. “SIRUP: Serendipity In Recommendations via User Perceptions”. In: *Proceedings of the 22nd International Conference on Intelligent User Interfaces*. IUI’17. IUI: Intelligent User Interfaces. Limassol, Cyprus: ACM, 2017, pp. 35–44. DOI: 10.1145/3025171.3025185. URL: <http://www.cs.vu.nl/~guus/papers/Maccatrozzo17a.pdf>.
- [32] David Mazières and M.Frans Kaashoek. “Escaping the evils of centralized control with self-certifying pathnames”. In: *European workshop on Support for composing distributed applications, ACM Special Interest Group on Operating Systems*. ACM SIGOPS’98. ACM SIGOPS: Association of

- Computing Machinery Special Interest Group on Operating Systems. Sintra, Portugal: ACM, Sept. 1998. DOI: 10.1145/319195.319213. URL: www.sigops.org/ew-history/1998/papers/mazieres.ps.
- [33] Barend Mons et al. “Cloudy, increasingly FAIR; revisiting the FAIR Data guiding principles for the European Open Science Cloud”. In: *Information Services & Use* 37.1 (Mar. 2017), pp. 49–65. DOI: 10.3233/ISU-170824. URL: <http://content.iospress.com/articles/information-services-and-use/isu824>.
 - [34] Barend Mons et al. “The value of data”. In: *Nature Genetics* 43 (2011), pp. 281–283. DOI: 10.1038/ng0411-281. URL: <http://www.nature.com/ng/journal/v43/n4/full/ng0411-281.html>.
 - [35] David Nadeau and Satoshi Sekine. “A survey of named entity recognition and classification”. In: *Linguisticae Investigationes* 30.1 (Jan. 2007), pp. 3–26. DOI: 10.1075/li.30.1.03nad. URL: <http://nlp.cs.nyu.edu/sekine/papers/li07.pdf>.
 - [36] Andrea Giovanni Nuzzolese et al. “Aemoo: Linked Data exploration based on knowledge patterns”. In: *Semantic Web* 8.1 (2017), pp. 87–112. DOI: 10.3233/SW-160222. URL: <http://www.semantic-web-journal.net/system/files/swj1208.pdf>.
 - [37] Roberta Pastorino et al. “Quality assessment of studies published in Open Access and subscription Journals: results of a systematic evaluation”. In: *PLoS ONE* 11.5 (May 2016). DOI: 10.1371/journal.pone.0154217. URL: <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0154217>.
 - [38] Evan W. Patton and Deborah L. McGuinness. “Connecting science data using semantics and information extraction”. In: *Proceedings of the 4th International Conference on Linked Science*. Vol. 1282. LISC’14. LISC: Linked Science Conference. Riva del Garda, Italy: CEUR-WS.org, 2014, pp. 76–79. URL: http://ceur-ws.org/Vol-1282/lisc2014_submission_11.pdf.
 - [39] Silvio Peroni, Aldo Gangemi, and Fabio Vitali. “Dealing with Markup Semantics”. In: *Proceedings of the International Conference on Semantic Systems*. I-SEMANTICS ’11. I-SEMANTICS: International Semantic Systems. Graz, Austria: ACM, Sept. 2011. URL: dl.acm.org/ft_gateway.cfm?id=2063533.
 - [40] Silvio Peroni, Enrico Motta, and Mathieu d’Aquin. “Identifying key concepts in an ontology, through the integration of cognitive principles with statistical and topological measures”. In: *Proceedings of the 2008 Asian Semantic Web Conference on The Semantic Web, Lecture Notes in Computer Science*. Vol. 5367. ASWC’08. ASWC: Asian Semantic Web Conference. Berlin, Heidelberg: Springer-Verlag, Dec. 2008, pp. 242–256. DOI: 10.1007/978-3-540-89704-0_17. URL: <http://dl.acm.org/citation.cfm?id=1484163>.

- [41] Silvio Peroni and David Shotton. “FaBiO and CiTO: ontologies for describing bibliographic resources and citations”. In: *Web Semantics: Science, Services and Agents on the World Wide Web* 17 (Dec. 2012), pp. 33–43. DOI: 10.1016/j.websem.2012.08.001. URL: <http://www.sciencedirect.com/science/article/pii/S1570826812000790>.
- [42] Silvio Peroni, David Shotton, and Fabio Vitali. “Scholarly publishing and Linked Data: describing roles, statuses, temporal and contextual extents”. In: *Proceedings of the International Conference on Semantic Systems*. I-SEMANTICS ’12. I-SEMANTICS: International Semantic Systems. Graz, Austria: ACM, Sept. 2012, pp. 9–16. DOI: 10.1145/2362499.2362502. URL: dl.acm.org/ft_gateway.cfm?id=2362502.
- [43] Silvio Peroni, David Shotton, and Fabio Vitali. “Tools for the automatic generation of ontology documentation: a task-based evaluation”. In: *International Journal on Semantic Web & Information Systems* 9.1 (Jan. 2013), pp. 21–44. DOI: 10.4018/jswis.2013010102. URL: <http://speroni.web.cs.unibo.it/publications/peroni-2013-tools-automatic-generation.pdf>.
- [44] Silvio Peroni et al. “Research Articles in Simplified HTML: a Web-first format for HTML-based scholarly articles”. In: *PeerJ Preprints* (Oct. 2016). DOI: <https://doi.org/10.7287/peerj.preprints.2513v1>. URL: <https://peerj.com/preprints/2513/>.
- [45] Silvio Peroni et al. “Semantic lenses as exploration method for scholarly articles”. In: *Italian Research Conference on Digital Libraries: Bridging Between Cultural Heritage Institutions, Communications in Computer and Information Science*. Ed. by Catarci T., Ferro N., and Poggi A. Vol. 385. IRCDL’13. Berlin, Heidelberg, Germany: Springer, 2013. DOI: 10.1007/978-3-642-54347-0_13. URL: link.springer.com/content/pdf/10.1007%252F978-3-642-54347-0_13.pdf.
- [46] Jodi Schneider et al. “Using the Micropublications ontology and the Open Annotation Data Model to represent evidence within a drug-drug interaction knowledge base”. In: *Proceedings of the 4th International Conference on Linked Science*. Vol. 1282. LISC’14. LISC: Linked Science Conference. Riva del Garda, Italy: CEUR-WS.org, 2014, pp. 60–70. URL: http://ceur-ws.org/Vol-1282/lisc2014_submission_8.pdf.
- [47] Hajar Ghaem Sigarchian et al. “EPUB3 for integrated and customizable representation of a scientific publication and its associated resources”. In: *Proceedings of the 4th International Conference on Linked Science*. Vol. 1282. LISC’14. LISC: Linked Science Conference. Riva del Garda, Italy: cEUR-WS.org, 2014, pp. 1–11. URL: http://ceur-ws.org/Vol-1282/lisc2014_submission_3.pdf.
- [48] Andreas Vlachidis and Douglas Tudhope. “A knowledge-based approach to Information Extraction for semantic interoperability in the archaeology domain”. In: *JASIST: Journal of the Association for Information Science and Technology* 67.5 (May 2016), pp. 1138–1152. DOI: 10.1002/asi.23485. URL: <http://onlinelibrary.wiley.com/doi/10.1002/asi.23485/full>.

- [49] Anita de Waard and Jodi Schneider. “Formalising uncertainty: an ontology of reasoning, certainty and attribution (ORCA)”. In: *Proceedings of the 2012 Joint International Conference on Semantic Technologies Applied to Biomedical Informatics and Individualized Medicine*. Ed. by Alejandro Rodriguez Gonzalez Centre for Plant Biotechnology et al. Vol. 930. SATBI+SWIM’12. Boston, MA, U.S.A.: CEUR-WS.org, Nov. 2012, pp. 10–17. URL: <http://dl.acm.org/citation.cfm?id=2887634>.
- [50] Andy R Weale, Mick Bailey, and Paul A Lear. “The level of non-citation of articles within a journal as a measure of quality: a comparison to the impact factor”. In: *BMC Medical Research Methodology* 4.14 (May 2004). DOI: 10.1186/1471-2288-4-14. URL: <https://bmcmmedresmethodol.biomedcentral.com/articles/10.1186/1471-2288-4-14>.
- [51] Mark D. Wilkinson et al. “The FAIR Guiding Principles for scientific data management and stewardship”. In: *Scientific Data* 3 (Mar. 2016). DOI: 10.1038/sdata.2016.18. URL: <https://www.nature.com/articles/sdata201618>.
- [52] Jin Guang Zheng et al. “Entity Linking for Biomedical Literature”. In: *Proceedings of the ACM 8th International Workshop on Data and Text Mining in Bioinformatics*. DTMBIO’14. DTMBIO: Data and Text Mining in Bioinformatics. Shangai, China: ACM, Nov. 2014. DOI: 10.1145/2665970.2665974. URL: http://dl.acm.org/ft_gateway.cfm?id=2665974&ftid=1510757&down=1&CFID=921111123&CFTOKEN=39179302.

Online resources

- [1] *Altmetric*. URL: <https://www.altmetric.com>.
Aggregator of online presence mentions of scholarly content by monitoring: mainstream media outlets like news feeds, online reference managers like Mendeley, data from Open Syllabus Project, research highlights from F1000, Wikipedia, blogs, citations, social media like Facebook (public pages), Twitter, Google+, LinkedIn, etc. together with multimedia and other online platforms like YouTube, Reddit, etc.
Tools offered: browser plugin to see altmetrics for any publication with a DOI, embedding altmetrics statistics, altmetrics API to query the database.
- [2] *BibSonomy*. URL: <https://www.bibsonomy.org>.
An online framework that allows users to collect and bookmark publications for their own usage and also tag them. This collection of publications can then be easily used to create a bibliography in various formats. Also, users can connect to each other and collaborate.
- [3] *ConnectedResearchers*. URL: <http://connectedresearchers.com/online-tools-for-researchers/>.
A list with digital tools for researchers categorized as follows: literature exploration, code and data sharing, connecting with others, writing and publishing articles and evaluating the research.
- [4] Oscar Corcho et al. *Research Object Ontology*. Workflow4Ever. URL: <http://wf4ever.github.io/ro/2016-01-28/>. An ontology for Research Objects that can be used to describe aggregations for scientific workflows.

- [5] *Data Quality Vocabulary*. URL: <https://www.w3.org/TR/vocab-dqv/>.
A W3C framework that allows the description of the quality of a dataset. The quality assessments can be made by various organizations and/or people: certification agencies, data aggregators, data consumers, etc.
- [6] Jean-Claude Guéron. *Open Access: Toward the Internet of the Mind*. Budapest Open Access Initiative. URL: <http://www.budapestopenaccessinitiative.org/boai15/Untitleddocument.docx>.
- [7] *Hypothes*. URL: <https://hypothes.is/>.
An open platform that uses annotations and notes to share regarding news, blogs, scientific articles, books, etc.
- [8] *LabWorm*. URL: <https://labworm.com/>.
Search engine for online tools to assist in research.
- [9] *Linked Data Notifications*. URL: <https://www.w3.org/TR/ldn/>.
A W3C protocol that allows data to be shared across applications, independent of the data storage.
- [10] *PROV-Pings*. URL: <http://prov-pings.org>.
A web service used to link publications to their provenance. The responsibility of providing a provenance to a publication is not in the hands of the publisher anymore, but in the hands of the crowd. This is done by pushing a query with the provenance information.
PROV-AQ (Provenance Access and Query):
<publication-uri>prov:has_provenance <provenance-uri>
PROV-Pings:
<publication-uri> prov:pingback <prov-pings-uri?target=publication-uri>
<publication-uri> prov:has_query_service <prov-pings-uri>.
- [11] *Semantic Scholar*. URL: <https://www.semanticscholar.org/>.
A corpus of computer science and neuroscience papers with a search engine for the publications in its database. It can also identify missing citations using Citeomatic.

Publications by field

Semantic publishing-related only

- [2] *BibSonomy*. URL: <https://www.bibsonomy.org>.
An online framework that allows users to collect and bookmark publications for their own usage and also tag them. This collection of publications can then be easily used to create a bibliography in various formats. Also, users can connect to each other and collaborate.
- [3] *ConnectedResearchers*. URL: <http://connectedresearchers.com/online-tools-for-researchers/>.
A list with digital tools for researchers categorized as follows: literature exploration, code and data sharing, connecting with others, writing and publishing articles and evaluating the research.

- [26] Angelo Di Iorio et al. “Faceted documents: describing document characteristics using semantic lenses”. In: *International Conference on Linked Science*. Vol. 1282. LISC’14. LISC: Linked Science Conference. Riva del Garda, Italy: CEUR-WS.org, 2014, pp. 12–23. URL: dl.acm.org/ft_gateway.cfm?id=2361396.
- [8] *LabWorm*. URL: <https://labworm.com/>.
Search engine for online tools to assist in research.
- [9] *Linked Data Notifications*. URL: <https://www.w3.org/TR/ldn/>.
A W3C protocol that allows data to be shared across applications, independent of the data storage.
- [41] Silvio Peroni and David Shotton. “FaBiO and CiTO: ontologies for describing bibliographic resources and citations”. In: *Web Semantics: Science, Services and Agents on the World Wide Web* 17 (Dec. 2012), pp. 33–43. DOI: 10.1016/j.websem.2012.08.001. URL: <http://www.sciencedirect.com/science/article/pii/S1570826812000790>.
- [42] Silvio Peroni, David Shotton, and Fabio Vitali. “Scholarly publishing and Linked Data: describing roles, statuses, temporal and contextual extents”. In: *Proceedings of the International Conference on Semantic Systems*. I-SEMANTICS ’12. I-SEMANTICS: International Semantic Systems. Graz, Austria: ACM, Sept. 2012, pp. 9–16. DOI: 10.1145/2362499.2362502. URL: dl.acm.org/ft_gateway.cfm?id=2362502.
- [45] Silvio Peroni et al. “Semantic lenses as exploration method for scholarly articles”. In: *Italian Research Conference on Digital Libraries: Bridging Between Cultural Heritage Institutions, Communications in Computer and Information Science*. Ed. by Catarci T., Ferro N., and Poggi A. Vol. 385. IRCDL’13. Berlin, Heidelberg, Germany: Springer, 2013. DOI: 10.1007/978-3-642-54347-0_13. URL: link.springer.com/content/pdf/10.1007/978-3-642-54347-0_13.pdf.
- [10] *PROV-Pings*. URL: <http://prov-pings.org>.
A web service used to link publications to their provenance. The responsibility of providing a provenance to a publication is not in the hands of the publisher anymore, but in the hands of the crowd. This is done by pushing a query with the provenance information.
PROV-AQ (Provenance Access and Query):
<publication-uri>prov:has_provenance <provenance-uri>
PROV-Pings:
<publication-uri> prov:pingback <prov-pings-uri?target=publication-uri>
<publication-uri> prov:has_query_service <prov-pings-uri>.
- [49] Anita de Waard and Jodi Schneider. “Formalising uncertainty: an ontology of reasoning, certainty and attribution (ORCA)”. In: *Proceedings of the 2012 Joint International Conference on Semantic Technologies Applied to Biomedical Informatics and Individualized Medicine*. Ed. by Alejandro Rodriguez Gonzalez Centre for Plant Biotechnology et al. Vol. 930. SATBI+SWIM’12. Boston, MA, U.S.A.: CEUR-WS.org, Nov. 2012, pp. 10–17. URL: <http://dl.acm.org/citation.cfm?id=2887634>.

Ontologies-related only

- [11] Paolo Ciccarese et al. “CiTO + SWAN: The Web Semantics of Bibliographic Records, Citations, Evidence and Discourse Relationships”. In: *Semantic Web* 5.4 (Oct. 2014), pp. 295–311. DOI: 10.3233/SW-130098. URL: http://semantic-web-journal.net/sites/default/files/swj175_0.pdf.
- [13] Alexandru Constantin et al. “The Document Components Ontology (DoCO)”. In: *Semantic Web* 7.2 (Feb. 2016), pp. 167–181. DOI: 10.3233/SW-150177. URL: <http://content.iospress.com/download/semantic-web/sw177?id=semantic-web%2Fsw177>.
- [4] Oscar Corcho et al. *Research Object Ontology*. Workflow4Ever. URL: <http://wf4ever.github.io/ro/2016-01-28/>. An ontology for Research Objects that can be used to describe aggregations for scientific workflows.
- [14] Jeremy Debattista, Christoph Lange, and Sören Auer. “daQ, an ontology for dataset quality information”. In: *Proceedings of the Workshop on Linked Data on the Web*. Ed. by Christian Bizer et al. Vol. 1184. LDOW’14. LDOW: Linked Data on the Web. Seoul, Korea: CEUR-WS.org, Apr. 2014. URL: http://ceur-ws.org/Vol-1184/ldow2014_paper_09.pdf.
- [24] Angelo Di Iorio et al. “Crowdsourcing semantic content: a model and two applications”. In: *Proceedings of the 2010 International Conference on Human System Interaction*. HSI’10. HSI: Human System Interaction. Rzeszów, Poland: IEEE, May 2010, pp. 563–570. DOI: 10.1109/HSI.2010.5514513. URL: <http://ieeexplore.ieee.org/document/5514513/>.
- [43] Silvio Peroni, David Shotton, and Fabio Vitali. “Tools for the automatic generation of ontology documentation: a task-based evaluation”. In: *International Journal on Semantic Web & Information Systems* 9.1 (Jan. 2013), pp. 21–44. DOI: 10.4018/jswis.2013010102. URL: <http://speroni.web.cs.unibo.it/publications/peroni-2013-tools-automatic-generation.pdf>.
- [49] Anita de Waard and Jodi Schneider. “Formalising uncertainty: an ontology of reasoning, certainty and attribution (ORCA)”. In: *Proceedings of the 2012 Joint International Conference on Semantic Technologies Applied to Biomedical Informatics and Individualized Medicine*. Ed. by Alejandro Rodriguez Gonzalez Centre for Plant Biotechnology et al. Vol. 930. SATBI+SWIM’12. Boston, MA, U.S.A.: CEUR-WS.org, Nov. 2012, pp. 10–17. URL: <http://dl.acm.org/citation.cfm?id=2887634>.