

Francesco Osborne

Curriculum Vitae - 2020

I am a Research Fellow at the Knowledge Media institute of the Open University in Milton Keynes, UK, where I lead the Scholarly Knowledge Mining (SKM) team (<http://skm.kmi.open.ac.uk/>). My research focuses on Artificial Intelligence, Information Extraction, Knowledge Graphs, Science of Science, Semantic Web, Research Analytics, and Semantic Publishing. I have authored more than seventy peer-reviewed publications in top journals and conferences in my areas of research, including the Semantic Web Journal, ISWC, ESWC, WebConf, JCDL, TPD, UMAP, Data Science, Data Intelligence, and the International Journal of Human-Computer Studies.

Since joining KMi in 2013, I have contributed, either as PI, Co-PI, or Technical Director to bringing in over £700K in funding to the SKM team, which is producing innovative approaches leveraging large-scale data mining, semantic technologies, machine learning and visual analytics to help a variety of users to make sense of scholarly data.

We collaborate with a number of commercial organizations (e.g., Springer Nature, Elsevier, Microsoft, Digital Science, Figshare), non-profit organizations (e.g., OECD, CSET, FBK), and universities (e.g., Oxford, Cagliari, Trento, Karlsruhe Institute of Technology, Bologna, Vienna, Georgetown, Amsterdam, Tokyo, and others). In 2019, we released the Computer Science Ontology (CSO, <http://cso.kmi.open.ac.uk>), which is currently the largest taxonomy of research areas in the field and has been officially adopted by Springer Nature (<https://tinyurl.com/y5c92bxz>). In the context of our collaboration with Springer Nature, I have also designed and co-developed the Smart Topic Miner, a tool that has been in routine use by editors at Springer Nature since 2018, to generate automatically the scholarly metadata for all their computer science proceedings, including flagship series, such as Lecture Notes in Computer Science (LNCS), Lecture Notes in Artificial Intelligence, and others.

Currently, I am co-ordinating the process of adapting our technologies for use in the Biomedical fields and, in this context, we are contributing to the large scientific effort around COVID-19 by extracting key medical concepts (e.g., symptoms, risk factors) from a large collection of scientific articles.

1 HIGHER EDUCATION

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| 2015 | PhD in Computer Science from the University of Torino, Italy. |
| 2010 | Master Degree in ICT at the University of Torino. |

2 APPOINTMENTS AND EXPERIENCE

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| 2018-now | Visiting Research Fellow at Paris 13 University in Paris, France |
| 2017-now | Research Fellow at the Knowledge Media Institute of the Open University in Milton Keynes, UK |
| 2015-2017 | Research Associate at the Knowledge Media Institute of the Open University in Milton Keynes, UK |
| 2013-2014 | Research Assistant at the Knowledge Media Institute of the Open University in Milton Keynes, UK |
| 2011-2012 | Visiting PhD Student at the Knowledge Media Institute of the Open University in Milton Keynes, UK |

3 CONTRIBUTIONS TO OPEN UNIVERSITY TEACHING AND STUDENT SUPPORT

I currently do not have official teaching duties, but I support several students at different levels in the context of our collaborations with the University of Cagliari, the University of Bologna, and the

Polytechnic University of Bari. In 2010-2013, I taught Digital Literacy and HTML at the University of Torino and supervised the relevant hand-on labs.

4 CONTRIBUTIONS TO ADMINISTRATION AND MANAGEMENT

I lead the Scholarly Knowledge Mining team. Since 2013, I have supervised/line managed sixteen researchers/students/developers:

2020-now	Marco Tomasi (Master Student)
2020-now	Simone Rocca (Master Student)
2019-now	Simone Angioni (Visiting Master Student)
2018-2020	Danilo Dessi (Visiting PhD Student)
2018-2019	Hakan Ezgi Kızılöz (Visiting Researcher)
2018	Salvatore Zagaria (Visiting Student).
2017-2019	Andrea Mannocci (Research Associate)
2017-2019	Thiviyan Thanapalasingam (Research Assistant)
2016-2017	Patrick Wang (Research Associate)
2016-2017	Carlo Allocca (Research Associate)
2016	Aswin Sundaram (Developer)
2015-now	Angelo Salatino (PhD Student, Research Associate)
2015-2016	Helene de Ribaupierre (Research Associate)
2015-2016	Giorgio Basile (Research Assistant)
2015	Catia Prandi (Visiting Student)
2013-2014	Giuseppe Scavo (Visiting Student)

5 RESEARCH AND SCHOLARSHIP

Research Interests

Current research interests focus on Information Extraction, Knowledge Graph Generation, Science of Science, Semantic Web, Research Analytics, Machine Learning, Ontology Learning, and Semantic Publishing.

Research funding

2020 **Exploiting KMi's scholarly analytics research to generate new sponsorship opportunities in Life Science – Co-PI and Technical Director.** The main aim of this project is to support the migration of our scholarly analytics technologies to the Life Science domain, to open up new exploitation opportunities in this area.

Funder: HEIF Grant from The Open University.

Grant: £38K

2019-2020 **Intelligent technologies to support editorial strategies and marketing campaigns at Springer Nature – Co-PI and Technical Director.** The project aims at developing novel intelligent technologies to automatically evaluate the quality of scientific conferences and inform editorial decisions. A significant outcome will be the development of novel technologies for characterising corporate clients according to their research interests,

acquiring a better understanding of the relationship between academy and industry, and producing tailored packages of editorial products.

Funder: Springer Nature

Grant: £100K

2018-2019 **Supporting Editorial Activities at Springer Nature – Co-PI and Technical Director.** The project aimed at fostering Springer Nature editorial activities by supporting them with a variety of smart solutions leveraging artificial intelligence, data mining, and semantic technologies.

Funder: Springer Nature

Grant: £65K

2016-2018 **Developing Semantic Technologies at Springer Nature – Co-PI and Technical Director.** This project created Smart Topic Miner, the system which is now routinely used to assist Springer Nature editors in classifying conference proceedings, and Smart Book Recommender, an ontology-based recommender system for selecting the best editorial products to market at specific venues.

Funder: Springer Nature

Grant: £50K

2014-2017 **Automatic Detection of Research Trends – Supervisor.** This grant funded the PhD of Angelo Salatino, who developed a novel approach to forecasting the emergence of new research topics.

Funder: Springer Nature

Grant: £60K for PhD studentship

2014-2017 **Rexplore – Technical Director.** The project developed innovative services for exploring and making sense of scholarly data, using large-scale data mining, machine learning and semantic technologies. I led the research and development activities of the team working on the project.

Funder: Springer Nature, Elsevier, and OU (HEIF fund).

Grant: £400K combined funding in cash and kind.

6 POSTGRADUATE STUDENT SUPERVISION

2015-2019 Co-supervisor of Angelo Salatino (PhD student)

7 EXTERNAL ACADEMIC ACTIVITIES

Membership of Government or other public committees

2017-now Member of the Organisation for Economic Co-operation and Development (OECD) Expert Advisory Group.

External examining

2019 External examiner of the PhD student Danilo Dessì (University of Cagliari, Italy, 2017-2019).

2017 External examiner of the PhD student Dario De Nart (University of Udine, Italy, 2014-2017).

Academic editorial work

2020 Co-editor of Data Science special issue on Scholarly Data Analysis.
2019-now Editorial Board Member of the Data Intelligence Journal (MIT Press and Chinese Academy of Sciences)
2018 Co-editor of Semantics, Analytics, Visualization: Enhancing Scholarly Data. 3rd and 4th International Workshop (LNCS Vol. 10959). Springer Nature.
2018 Co-editor of Proceedings of the EKAW Doctoral Consortium 2018. CEUR Workshop Proceedings 2306.
2017 Co-editor of Semantics, Analytics, Visualization: Enhancing Scholarly Data. (LNCS Vol. 9792). Springer Nature.

Contributions to conferences

2020 Co-chair of "Science of Science" Track at ESWC.
2020 Co-chair of the Scientific Knowledge Graph Workshop at TPDL.
2019-2020 Co-chair of Workshop on Deep Learning For Knowledge Graph (DL4KG) at ESWC.
2019 Co-chair of "Research of Research" Track at ESWC.
2019 Co-chair of Data Science special issue (extended papers of the SAVE-SD Workshop)
2018 Co-chair of Doctoral consortium at EKAW 2018.
2018 Co-chair of Reframing Research (RefResh) Workshop at EUROCCS Symposium.
2015-2018 Co-chair of "Semantics, Analytics, Visualisation: Enhancing Scholarly Dissemination" Workshop (SAVE-SD 2015-2018 at WWW).
2017 Co-chair of Scientometrics Workshop (Scientometrics 2017 at ESWC).

Invited lectures

2019 "Understanding Research Data with Semantic Technologies" at Paris 13 University, 2019, Paris, France.
2019 "Smart Topics Miner 2: Improving Proceedings Retrievability," at Springer Nature, 2019. Heidelberg, Germany.
2018 "Analysing large-scale Research Data with Semantic Technologies" at Chan Zuckerberg Initiative, 2018, Palo Alto, California, USA.
2018 "Explore large-scale Research Data with Semantic Technologies", keynote at BigScholar 2018. KDD 2018, London, UK.
2018 "Analysing large-scale Research Data with Semantic Technologies" at Paris 13 University, 2018, Paris, France.
2018 "The Computer Science Ontology" at Springer Nature Hackday 2018. Berlin, Germany.
2018 "Understanding Research with Semantic Technologies" at Workshop on Semantic analysis for innovation policy (OECD) 2018. Paris, France.

- 2017 “Research 3.0: integrating knowledge graphs in the research process”, keynote at Workshop on Extracting and Modelling Scientific Knowledge from Texts. IC 2017, Caen, France
- 2016 “Two roads to Semantic Publishing” at Workshop on Semantic Publishing. FORCE 2016, Portland, Oregon.

8 OTHER INFORMATION

Skills

Software Engineering: Software Development, Project Management, UML.

Programming and markup languages: Python, PHP, Java, Javascript, Unix shell scripts, Latex, XML, HTML.

Data Management: SQL, NoSQL, Graph Databases, PostgreSQL, MySQL, MongoDB.

Big Data: ElasticSearch, Hadoop, HBASE, Spark, Hive.

Operating Systems: Unix/Linux, Mac OS X, Microsoft Windows, Android.

Machine Learning: TensorFlow, Keras, scikit-learn, pandas, gensim, scipy.

Semantic Web Technologies: RDF, OWL, SPARQL, triplestores, ontology engineering, ontology learning.

Recommender Systems: collaborative, content-based, ontology-based, hybrid.

NLP and Data Mining: topic modelling, named entity recognition, information extraction, knowledge graph generation.

Awards

- Best Paper Award at SAVE-SD 2018.
- 1st prize at the Semantic Publishing Challenge at the 2014 European Semantic Web Conference.
- Runner-up for the best paper award at ISWC 2019 (In-use), ISWC 2019 (Poster), ISWC 2019 (Demo), JCDL 2019, ISWC 2018 (Resources), ESWC 2014, and ICIDS 2011.

Program committees

WOSP 2014, WLT 2014, WOSP 2015, BigScholar 2015, VOILA 2015, BigScholar 2016, WOSP 2016, ISWC P&D 2016, VOILA 2016, EKAW 2016, Drift-a-LOD 2016, SWM 2017, BigScholar 2017, Special issue of the Journal of Web Semantics on “Visualization and Interaction for Ontologies and Linked Data”, VOILA 2017, WWW 2017, WOSP 2017, ESWC 2017, ISWC 2017, K-CAP 2017, QEKGraph 2017, Drift-a-LOD’18, RefResh 2018, VOILA 2018, WWW 2018, ESWC 2018, ISWC 2018, EKAW 2018, BigScholar 2018, DL4KG 2019, TheWebConf 2019, ESWC 2019, ISWC 2019, CLiC-it 2019, K-CAP 2019, AML 2019, SemEx 2019, CIKM 2020, JIST-KG 2020, ESWC 2020, ECAI 2020, ISWC 2020.

Recent Developments

2019-now **CSO Classifier** (<https://github.com/angelosalatino/cso-classifier>): It is an innovative unsupervised approach for automatically classifying research papers according to the Computer Science Ontology (CSO). The CSO Classifier takes as input the metadata associated with a research paper and returns a selection of research concepts drawn from the ontology. It is used by several universities and organizations for automatically annotating their research outputs.

2018-now **The Computer Science Ontology (CSO)** (<http://cso.kmi.open.ac.uk>): CSO is a large-scale, open, automatically generated ontology of research areas. It is the largest taxonomy in the field of Computer Science, including about 14K topics and over 162K relationships. I produced it

by applying my Klink-2 algorithm on a very large dataset of 16M scientific articles. CSO powers several tools adopted by the editorial team at Springer Nature and has been used to enable a variety of solutions, such as classifying research publications, detecting research communities, and predicting research trends.

2017-now **Smart Book Recommender** (<http://skm.kmi.open.ac.uk/sbr/>): A semantic application designed to support the Springer Nature editorial team in promoting their publications at CS venues. It takes as input the proceedings of a conference and suggests books, journals, and other conference proceedings which are likely to be relevant to the attendees of the conference in question.

2016-now **Smart Topic Miner** (<http://stm-demo.kmi.open.ac.uk/>): A tool which uses semantic web technologies to classify scholarly publications on the basis of a very large automatically generated ontology of research areas. It was developed to support the Springer Nature Computer Science editorial team in classifying proceedings.

2015-2017 **Garden Monitor App** (<http://www.mksmart.org/gardenmonitor/>): A mobile application that uses machine learning techniques for generating a customized calendar advising users on how to water their garden in the following ten days.

2012-2015 **Klink-2** (<http://skm.kmi.open.ac.uk/klink-2>): An application which takes as input large amounts of scholarly metadata and automatically generates an OWL ontology containing all the research areas mined from the input data and their semantic relationships.

2012-2017 **Rexplore** (<http://skm.kmi.open.ac.uk/rexplore>): A system that provides an innovative environment for analysing the research landscape and the performance of scientists, universities and scientific communities.

9 PUBLICATIONS

Edited Books

1. Gonzalez-Beltran, A., Osborne, F., and Vahdati, S. (eds.) (2020) Special Issue on Scholarly Data Analysis (Semantics, Analytics, Visualisation). Data Science.
2. Mehwish Alam, Davide Buscaldi, Michael Cochez, Francesco Osborne, Diego Reforgiato Recupero, Harald Sack (eds.) (2019) Proceedings of the Workshop on Deep Learning for Knowledge Graphs (DL4KG2019) Co-located with the 16th Extended Semantic Web Conference 2019 (ESWC 2019), Portoroz, Slovenia, June 2, 2019. CEUR Workshop Proceedings 2377, CEUR-WS.org 2019.
3. Hollink, L., Osborne, F. (eds.) (2019) Proceedings of the EKAW Doctoral Consortium 2018 co-located with the 21st International Conference on Knowledge Engineering and Knowledge Management (EKAW 2018), Nancy, France, November 13, 2018. CEUR Workshop Proceedings 2306.
4. Gonzalez-Beltran, A., Osborne, F., Peroni, S., and Vahdati, S. (eds.) (2018) Semantics, Analytics, Visualization: 3rd International Workshop, SAVE-SD 2017, Perth, Australia, April 3, 2017, and 4th International Workshop, SAVE-SD 2018, Lyon, France, April 24, 2018, Revised Selected Papers.
5. Gonzalez-Beltran, A., Osborne, F. and Peroni, S. (eds.) (2017) Semantics, Analytics, Visualization. Enhancing Scholarly Data: Second International Workshop, SAVE-SD 2016, Montreal, QC, Canada, April 11, 2016, Revised Selected Papers. Semantics, Analytics, Visualization. Enhancing Scholarly Data. eds. Springer Nature.

Chapters in Books

6. Salatino, A.A., Osborne, F. and Motta, E. (2020) Ontology Extraction and Usage in the Scholarly Knowledge Domain. Submitted to Applications and Practices in Ontology Design, Extraction, and Reasoning (Studies on the Semantic Web Series).
7. Carmagnola, F., Osborne, F. and Torre, I. (2013) Retrieval of Personal Public Data on Social Networks: The Risks for Privacy. Social Network Engineering for Secure Web Data and Services (pp. 137-160). IGI Global.

Journal Articles

8. Dessì, D., Osborne, F., Reforgiato Recupero, D., Buscaldi, D. and Motta, E. (2020) Generating Knowledge Graphs by Employing Natural Language Processing and Machine Learning Techniques within the Scholarly Domain. Submitted to Future Generation Computer Systems.
9. Kirrane, S., Sabou, M., Fernández, J.D, Osborne, F., Robin, C., Buitelaar, P., Motta, E., Polleres, A. (2020) A decade of Semantic Web research through the lenses of a mixed methods approach. *Semantic Web Journal*.
10. Salatino, A.A., Thanapalasingam, T., Mannocci, A., Birukou, A., Osborne, F. and Motta, E. (2019) The Computer Science Ontology: A Comprehensive Automatically-Generated Taxonomy of Research Areas. *Data Intelligence*.
11. Mannocci, A., Osborne, F. and Motta, E. (2019) The Evolution of IJHCS and CHI: A Quantitative Analysis. *International Journal of Human-Computer Studies*.
12. Osborne, F., Muccini, H., Lago, P. and Motta, E. (2019) Reducing the Effort for Systematic Reviews in Software Engineering. *Data Science*.
13. Mannocci, A., Osborne, F. and Motta, E. (2019) Geographical trends in academic conferences: an analysis on authors' affiliations. *Data Science*.
14. Peroni, S., Osborne, F., Di Iorio, A., Nuzzolese, A.G., Poggi, F., Vitali, F. and Motta, E. (2017) Research Articles in Simplified HTML: a Web-first format for HTML-based scholarly articles. *PeerJ Computer Science*.
15. Salatino, A.A., Osborne, F. and Motta, E. (2017) How are Topics born? Understanding the Research Dynamics preceding the Emergence of new Areas. *PeerJ Computer Science*.
16. Likavec, S., Osborne, F. and Cena, F. (2016) Property-based semantic similarity and relatedness for improving recommendation accuracy and diversity. *International Journal on Semantic Web and Information Systems (IJSWIS)*, 11, 4, IGI Global.
17. Carmagnola, F., Osborne, F. and Torre, I. (2014) Escaping the Big Brother: An empirical study on factors influencing identification and information leakage on the Web. *Journal of Information Science*, 40(2), pp.180-197, SAGE.
18. Carmagnola, F., Osborne, F. and Torre, I. (2014) User data discovery and aggregation: The CS-UDD algorithm. *Information Sciences*, Elsevier.
19. Osborne, F. and Motta, E. (2013) Exploring Research Trends with Rexplore. *D-Lib Magazine* 19(9/10).
20. Cena, F., Likavec, S. and Osborne, F. (2013) Anisotropic propagation of user interests in ontology-based user models. *Information Sciences*, 250, pp.40-60., Elsevier.

Conference Contributions

21. Dessì, D., Osborne, F., Reforgiato Recupero, D., Buscaldi, D. and Motta, E. (2020) AI-KG: an Automatically Generated Knowledge Graph of Artificial Intelligence. Submitted to International Semantic Web Conference 2020, Athens, Greece.
22. Angioni, S., Salatino, A.A., Osborne, F., Reforgiato Recupero, D. and Motta, E. (2020) AIDA: a Knowledge Graph about Research Dynamics in Academia and Industry. Submitted to International Semantic Web Conference 2020, Athens, Greece.
23. Salatino, A.A., Osborne, F. and Motta, E. (2020) ResearchFlow: Understanding the Knowledge Flow between Academia and Industry. Submitted to International Conference on Theory and Practice of Digital Libraries 2020, Lyon, France.
24. Salatino, A.A., Thanapalasingam, T., Mannocci, A., Osborne, F. and Motta, E. (2019) Improving Editorial Workflow and Metadata Quality at Springer Nature. *International Semantic Web Conference 2019*, Auckland, New Zealand.
25. Salatino, A.A., Osborne, F., Thanapalasingam and Motta, E. (2019) The CSO Classifier: Ontology-Driven Detection of Research Topics in Scholarly Articles. In: *TPDL 2019: 23rd International Conference on Theory and Practice of Digital Libraries*.

26. Salatino, A.A., Thanapalasingam, T., Mannocci, A., Osborne, F. and Motta, E. (2018) The Computer Science Ontology: A Large-Scale Taxonomy of Research Areas, International Semantic Web Conference 2018, Monterey, CA (USA).
27. Thanapalasingam, T., Osborne, F., Birukou, A., and Motta, E. (2018) Ontology-Based Recommendation of Editorial Products, International Semantic Web Conference 2018, Monterey, CA (USA).
28. Osborne, F. and Motta, E. (2018) Pragmatic Ontology Evolution: Reconciling User Requirements and Application Performance, International Semantic Web Conference 2018, Monterey, CA (USA).
29. Salatino, A., Osborne, F. and Motta, E. (2018) AUGUR: Forecasting the Emergence of New Research Topics. ACM/IEEE Joint Conference on Digital Libraries 2018, Fort Worth, Texas, USA.
30. Wolfram, N., Lago, P. and Osborne, F. (2017) Sustainability in Software Engineering. SustainIT 2017. Funchal, Portugal.
31. Osborne, F., Mannocci, A. and Motta, E. (2017) Forecasting the Spreading of Technologies in Research Communities. K-CAP 2017, Austin, Texas, USA.
32. Osborne, F., Salatino, A., Birukou, A., Thanapalasingam, T., and Motta, E. (2017) Supporting Springer Nature Editors by means of Semantic Technologies. International Semantic Web Conference 2017, Industry Track. Vienna, Austria.
33. Cano-Basave, A. E., Osborne, F. and Salatino, A.A. (2016) Ontology Forecasting in Scientific Literature: Semantic Concepts Prediction based on Innovation-Adoption Priors. EKAW 2016, Bologna, Italy
34. Osborne, F., Ribaupierre, H., and Motta, E. (2016) TechMiner: Extracting Technologies from Academic Publications. EKAW 2016, Bologna, Italy
35. Osborne, F., Salatino, A., Birukou, A. and Motta, E. (2016) Automatic Classification of Springer Nature Proceedings with Smart Topic Miner. International Semantic Web Conference 2016, Kobe, Japan.
36. Osborne, F. and Motta, E. (2015) Klink-2: Integrating Multiple Web Sources to Generate Semantic Topic Networks. International Semantic Web Conference 2015, Bethlehem, Pennsylvania, USA.
37. Osborne, F., Scavo, G. and Motta, E. (2014) Identifying diachronic topic-based research communities by clustering shared research trajectories. Extended Semantic Web Conference 2014, Crete, Greece.
38. Osborne, F. and Motta, E. (2014) Understanding research dynamics. Extended Semantic Web Conference 2014, Crete, Greece. **[1st prize at the Semantic Publishing Challenge]**
39. Osborne, F. and Motta, E. (2014) Rexplore: Unveiling the Dynamics of Scholarly Data. Digital Library 2014, London, UK.
40. Osborne, F. and Motta, E. (2014) Inferring Semantic Relations by User Feedback. EKAW 2014, Linköping, Sweden.
41. Osborne, F., Scavo, G. and Motta, E. (2014) A Hybrid Semantic Approach to Building Dynamic Maps of Research Communities. EKAW 2014, Linköping, Sweden.
42. Chiabrande, E., Furnari, R., Likavec, S., Osborne, F., Picardi, C. and Dupré, D. (2014) TellEat: Sharing Experiences on the Move. HCI International 2014, Heraklion, Crete, Greece.
43. Osborne, F., Motta, E. and Mulholland, P. (2013) Exploring Scholarly Data with Rexplore. International Semantic Web Conference, Sydney, Australia
44. Osborne, F., Cena, F. and Likavec, S. (2013) Granular semantic user similarity in the presence of sparse data. AI*IA 2013, Turin, Italy.
45. Osborne, F. (2013) A POV-based user model: From learning preferences to learning personal ontologies. International Conference on User Modeling, Adaptation, and Personalization 2013, Rome, Italy.
46. Osborne, F. and Motta, E. (2012) Mining Semantic Relations between Research Areas. International Semantic Web Conference, Boston, MA, USA.

47. Cena, F., Likavec, S. and Osborne, F. (2012) Property-based interest propagation in ontology-based user model. International Conference on User Modeling, Adaptation, and Personalization 2012, Montreal, Canada.
48. Osborne, F. (2011) A new approach to social behavior simulation: the Mask Model. International Conference on Interactive Digital Storytelling 2011, Vancouver, Canada.
49. Cena, F., Likavec, S. and Osborne, F. (2011) Propagating user interests in ontology-based user model. AI*IA 2011, Palermo, Italy.
50. Carmagnola, F., Osborne, F. and Torre, I. (2009) Cross-Systems Identification of Users in the Social Web. 8th IADIS International Conference WWW/INTERNET, Rome, Italy.

Other works

51. Reforgiato Recupero, D., Dessi, D., Concas, E. and Osborne, F. (2019) Understanding Action Commands in Natural Language for Human-Robot Interaction: a Use Case with Zora. Submitted to European Conference on Ambient Intelligence 2019, Poster Track.
 52. Bardaro, G., Dessi, D., Motta, E., Osborne, F. and Reforgiato Recupero, D. (2019) Parsing Natural Language Sentences into Robot Actions. International Semantic Web Conference 2019, Poster Track. Auckland, New Zealand.
 53. Salatino, A., Osborne, F., Birukou, A. and Motta, E. (2019) Smart Topics Miner 2: Improving Springer Nature Editorial Workflow and Proceedings Retrieval. International Semantic Web Conference 2019, Poster Track. Auckland, New Zealand.
 54. Angioni, S., Salatino, A., Osborne, F., Reforgiato Recupero, D. and Motta, E. (2019) The Trend Analysis Dashboard: a semantic tool for comparing the scientific output of Academia and Industry. International Semantic Web Conference 2019, Poster Track. Auckland, New Zealand.
 55. Buscaldi, D., Dessi, D., Motta, E., Osborne, F. and Reforgiato Recupero, D. (2019) Mining Scholarly Data for Fine-Grained Knowledge Graph Construction. Workshop on Deep Learning for Knowledge Graphs 2019.
 56. Buscaldi, D., Dessi, D., Motta, E., Osborne, F. and Reforgiato Recupero, D. (2019) Mining Scholarly Data for Scientific Knowledge Graph Construction. ESWC 2019, Poster Track.
 57. Mannocci, A., Osborne, F. and Motta, E. (2018) Geographical Trends in Research Conferences: closed clubs or open houses? European Symposium on Societal Challenges in Computational Social Science. Cologne, Germany.
 58. Salatino, A.A., Thanapalasingam, T., Mannocci, A., Osborne, F. and Motta, E. (2018) Classifying Research Papers with the Computer Science Ontology, International Semantic Web Conference 2018, Poster Track. Monterey, CA (USA).
 59. Thanapalasingam, T., Osborne, F., Birukou, A., and Motta, E. (2018) The Smart Book Recommender: An Ontology-Driven Application for Recommending Editorial Products, International Semantic Web Conference 2018, Poster Track. Monterey, CA (USA).
 60. Mannocci, A., Osborne, F., and Motta, E. (2018) Geographical trends in research: a preliminary analysis on authors' affiliations. Workshop: SAVE-SD 2018 at The Web Conference, Lyon, France.
- [Best paper]**
61. Gonzalez-Beltran, Alejandra, Francesco Osborne, Silvio Peroni, and Sahar Vahdati. (2017) SAVE-SD 2017: Third Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data. In Proceedings of the 26th International Conference on World Wide Web Companion, pp. 1681-1682. International World Wide Web Conferences Steering Committee, 2017.
 62. Mannocci, A., Salatino, A., Osborne, F., and Motta, E. (2017) 2100 AI: Reflections on the mechanisation of scientific discover. Workshop: Re-coding Black Mirror at The 16th International Semantic Web Conference (ISWC '17), Wien.
 63. Osborne, F., Birukou, A., Thanapalasingam, T., and Motta, E. (2017) Smart Book Recommender: A Semantic Recommendation Engine for Editorial Products. International Semantic Web Conference 2017, Poster Track. Vienna, Austria.

64. Osborne, F., Mannocci, A., and Motta, E. (2017) Forecasting Technology Migrations with the Technology- Topic Framework. International Semantic Web Conference 2017, Poster Track. Vienna, Austria.
65. Ribaupierre, H., Osborne, F. and Motta, E. (2016) Combining NLP and semantics for mining software technologies from research publications. Poster at World Wide Web 2016, Montreal, Canada.
66. Osborne, F., Salatino, A., Birukou, A. and Motta, E. (2016) Smart Topic Miner: Supporting Springer Nature Editors with Semantic Web Technologies. Poster at International Semantic Web Conference 2016, Kobe, Japan.
67. Iorio, A., Gonzalez-Beltran, A., Osborne, F., Peroni, S., Poggi, F. and Vitali, F. (2016) It ROCS! The RASH Online Conversion Service. Demo at World Wide Web 2016, Montreal, Canada.
68. Gonzalez-Beltran, A., Osborne, F. and Peroni, S. (2016) SAVE-SD 2016: Second Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data. (2016) In Proceedings of the 25th International Conference Companion on World Wide Web, pp. 1043-1044.
69. Osborne, F. (2015) Propagating User Interests In Ontology-Based User Models. PhD Thesis.
70. Iorio, A., Nuzzolese, A., Osborne, F., Peroni, S., Poggi, F., Smith, M., Vitali, F. and Zhao, J. (2015) The RASH Framework: enabling HTML+RDF submissions in scholarly venues. Poster at International Semantic Web Conference 2015, Bethlehem, Pennsylvania.
71. Osborne, F., Peroni, S. and Zhao, J. (2015) SAVE-SD 2015: First Workshop on Semantics, Analytics and Visualisation: Enhancing Scholarly Data. (2015) In Proceedings of the 24th International Conference on World Wide Web.
72. Osborne, F., Peroni, S. and Motta, E. (2014) Clustering Citation Distributions for Semantic Categorization and Citation Prediction. LISC 2014 at International Semantic Web Conference 2014, Riva Del Garda, Italy.
73. Cena, F., Chiabrande, E., Crevola, A., Deplano, M., Gena, C. and Osborne, F. (2013) A Proposal for an Open Local Movie Recommender. UMAP Workshops, Rome, Italy.
74. Osborne, F. and Ruggeri, A. (2013) A prismatic cognitive layout for adapting ontologies. Poster at International Conference on User Modeling, Adaptation, and Personalization 2013, Rome, Italy.
75. Motta, E. and Osborne, F. (2012) Making Sense of Research with Rexplore. Demo at International Semantic Web Conference, Boston, MA, USA.
76. Osborne, F. (2011) The Mask Model: a new approach to NPC behavior simulation. PhD seminar Worlds, Stories, and Game, Copenhagen, Denmark.
77. Carmagnola, F., Osborne, F. and Torre, I. (2010) User data distributed on the social web: how to identify users on different social systems and collecting data about them. HetRec 2010 - International Workshop on Information Heterogeneity and Fusion in Recommender Systems, Barcellona, Spain.