

## Andrea Giovanni Nuzzolese

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PERSONAL DETAILS *Given name:* Andrea Giovanni

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AFFILIATION Semantic Technology Laboratory, Institute for Cognitive Science and Technology, National Research Council – Rome, Italy

SHORT BIO

I am permanent researcher at the Institute of Cognitive Sciences and Technologies (ISTC) of the National Research Council (CNR) where I am the co-head of the Semantic Technology Laboratory (STLab). I obtained my PhD in Computer Science in 2014 at the University of Bologna studying methodologies and software architectures for the extraction of Knowledge Patterns from the Web. My research interests include ontology design, linked data, the Semantic Web, knowledge extraction from heterogeneous formats, natural language reading, and social and assistive robotics.

I was involved as a researcher in the project “Interactive Knowledge Stack footnote <http://www.iks-project.eu/> ” (IKS) (IP EU FP7). The goal of IKS was the design and implementation of an open source framework aimed at providing reusable semantic components to Content Management System. The main outcome of IKS was the Apache Stanbol software<sup>1</sup>.

I carried out research activities within the project project H2020 MARIO<sup>2</sup>. MARIO was focused on the study and construction of a robotic platform for the support of elderly people with dementia. In MARIO I was task leader for the design of the Ontology Network that organises and manages the knowledge of the robot.

I am currently the scientific manager for ISTC-CNR of the Water Health Open knowWledge (WHOW) 2019-EU-IA-0089 (EU CEF Telecom - Public Open Data) project aimed at designing and implementing a framework to promote the creation of a vast ecosystem of data on water consumption and quality, sanitary parameters and the spread of diseases to be reused for advanced analysis and development of innovative services.

I am the scientific manager for ISTC-CNR as part of the agreement with the Italian National Institute for Environmental Protection and Research (ISPRA) with the aim of studying, designing and implementing the knowledge graph of Italian environmental data.

I am the coordinator of the technical panel activated and aimed at drafting and perfecting the specification documents to be included in the tender specifications, provided for in the Developing nAtional and Regional Infrastructural nodes of dAriaH in ITaly (DARIAH) project (PON I&R PIR01.00022).

I was principal the investigator of the project “Measuring the Impact of Research: Alternative Indicators’ (MIRA) funded by the Italian National Evaluation Agency of the University and Research System (ANVUR) ??under the theme “Methods research evaluation ”of the program” Research Ideas ”.

I was the scientific coordinator for ISTC-CNR of the collaboration agreement with the Digital Innova-

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<sup>1</sup><https://stanbol.apache.org/>

<sup>2</sup><http://www.mario-project.eu/portal/>

tion Team of the Italian Presidency of the Council of Ministers aimed at designing and implementing the network of ontologies of the Italian Public Administration known as OntoPiA.

I was the scientific coordinator for ISTC-CNR of the “TURBO” project (number of CNR 861 protocol of 18/03/2016) for the research and development of an engine semantic for the classification of web contents based on machine learning in the context of programmatic advertising.

I have published more than 70 scientific articles<sup>3</sup> on ontology design, linked data, knowledge mining, machine reading and sentiment analysis in international journals, conferences and workshops.

I am a member of the Semantic Web and Ontology Engineering conference and workshop program committees. In addition, I am a reviewer of scientific journals such as the Semantic Web Journal or the Journal of Web Semantics.

I am co-founder of BUP Srl, an innovative start-up dedicated to the design and implementation of solutions for the creation and management of knowledge graphs.

## EDUCATION

**University of Bologna, Italy**  
*PhD in Computer Science*

**January 2011 - May 2014**

- Topic: Semantic Web with particular focus to the extraction and the discovery of Knowledge Patterns from both structured and unstructured data sources.
- Supervisors: Prof. Paolo Ciancarini, Dr. Aldo Gangemi, Dr. Valentina Presutti
- Reserch periods abroad:
  - From June 2012 to August 2013: visiting Ph.D. student at Hypios Research, Paris. During the visit I worked in the research team led by dr. Milan Stankovic at a case study of expert finding aimed at hybridizing state of the art techniques with Semantic Web technologies and Knowledge Patterns;
  - From December 2012 to March 2013: visiting Ph.D. student at LIPN-Université Paris 13 in the research team led by prof. Aldo Gangemi. The topic of the research was about the investigation of methods for inference of link types in Wikipedia articles.
- Main research projects finalized during the PhD:
  - **K~ore**: a software architecture for enabling the development of applications aimed at extracting and reusing Knowledge Patterns in the Web;
  - **Aemoo**: an exploratory search engine based on Knowledge Patterns in order to enable entity summarizations. Languages and technologies used: Java, Apache Felix (OSGi), Apache Stanbol, Apache Lucene, Javascript, EXT, JQuery, RDF, OWL, REST. Reference: <http://aemoo.org>;
  - **Tipalo**: a software for automatic typing Wikipedia entities based on the interpretation of natural language definitions available in articles' abstracts. Languages and technologies used: Java, Apache Felix (OSGi), Javascript, JQuery, RDF, OWL, REST. Reference: <http://wit.istc.cnr.it/stlab-tools/tipalo>;
  - **FRED**: an ontology learning software from natural language. Languages and technologies used: Java, Python, Apache Felix (OSGi), Javascript, JQuery, RDF, OWL, REST. Reference: <http://wit.istc.cnr.it/stlab-tools/fred>.

**University of Bologna, Italy**  
*Master Degree (cum laude) in Computer Science*

**March 2010**

- Title of the thesis: “Semion: a software that implements a customizable transformation method from relational databases to Linked Data”
- Supervisors: Prof. Paolo Ciancarini, Dr. Aldo Gangemi, Dr. Valentina Presutti

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<sup>3</sup>Source Scopus: <https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=42862074000&zone=#>

**University of Bologna, Italy**  
*Bachelor Degree in Computer Science*

**July 2006**

- Title of the thesis: “Hermes: a crawler for the Semantic Web”
- Supervisors: Prof. Paolo Ciancarini, Dr. Valentina Presutti

**International Schools.**

*Summer School on Ontology Engineering and the Semantic Web (SSSW 2011).* **10-16 July 2011**

- Topics: Semantic Web, Linked Data, Ontology Engineering, Ontology Design Patterns, Knowledge Engineering, Ontology Matching, Social Semantics, Ubiquitous Computing, Knowledge Management.
- Cercedilla, Spagna.

*Bertinoro International Spring School (BISS 2011).*

**7-18 March 2011**

- Topics: Trust in Anonymity Networks, Computational Aspects of Game Theory, Information Integration, Model Checking: From Finite-state to Infinite-state Systems.
- Bertinoro, Italia.

*PhD Course on Computational Ontologies.*

**2-10 February 2010**

- Topics: Introduction to Semantic Technologies, Semantic Web, Computational Ontologies, RDF, OWL, SPARQL, Semantic Web Tools, Principles and Methodologies for Ontology Design, Ontology Design Patterns.
- Bologna, Italia.

*PhD Summer Course on Computational Ontologies*

**18-21 September 2007**

- Topics: Computational Ontologies, Languages for modelling Ontologies, Tools for Ontology Design, Ontology Design Pattern, Linguistic Frames.
- Bologna, Italia.

**RESEARCH  
EXPERIENCES**

**National Research Council (CNR), Rome, Italy**  
*Researcher*

**March 2016 - present**

I am the co-head of the Laboratory of Semantic Technologies (STLab) of the Institute of Cognitive Sciences and Technologies (ISTC) of the CNR. The main research activities I carry on work include: (i) methodologies and techniques for modelling and implementing ontologies and linked data starting from heterogeneous data sources (structured, unstructured and semi-structured); (ii) Ontology Design Patterns; (iii) Knowledge extraction from structured and unstructured data sources; (iv) semantic publishing; and (v) discovery science.

**National Research Council (CNR), Rome, Italy**  
*Post-Doc Researcher*

**February 2014 - February 2016**

Research topic: knowledge pattern extraction from structured as well as unstructured data (e.g. natural language) and their formalisation to OWL ontologies.

**National Research Council (CNR), Rome, Italy**  
*Research Fellow*

**March 2010 - January 2014**

Research topic: methods and models based on Semantic Web technologies for the automatic representation and reasoning on content managed by CMS. Activity conducted within the project

Interactive Knowledge Stack (IKS) (IP EU FP7).

**Apache Software Foundation.**

**January 2011 - present**

*Committer*

Member of the Apache Software Foundation as committer in the Apache Stanbol project. Apache Stanbol is a modular software stack and reusable set of components for semantic content management.

**GIMBE Foundation, Bologna, Italy**

**January 2008 - February 2010**

*Software Engineer*

Design and implementation of a digital library aimed at managing methodological contents within the context of Evidence Based Medicine. Languages and technologies used: Java, J2EE, SWT, Javascript, JQuery, SOAP, HTML, XML.

TEACHING  
EXPERIENCES

**Università di Bologna.**

*Adjunct professor of the course on Knowledge Engineering held by the international master in Artificial Intelligence of the University of Bologna* **a.y. 20/21**

At the end of the course, the student knows some (semi-)automated methods for joint interpretation of data and content as sources of knowledge. The student masters the basics of knowledge extraction, engineering, and linking, making data suitable to machine querying and automated reasoning, typically on decentralized platforms such as the Web.

*Adjunct professor of the course on Software Applications held by the international bachelor in Genomics of the University of Bologna* **a.y. 18/19, 19/20, 20/21**

This teaching activity provides students with the main software engineering standards for designing, implementing and maintaining software applications. Unified Modeling Language (UML) is taught to provide students with a standard language for visualising the design of software applications. The course has a particular focus on the main design solutions such as architectural patterns and software design patterns that make up the minimal design units for understanding, designing and implementing complex software applications.

*Adjunct professor of the course on Theories and Systems of the Artificial Intelligence held by the bachelor in Humanities of the University of Bologna* **a.a. 19/20**

Insegnamento delle caratteristiche sia da un punto di vista teorico che pratico delle applicazioni di intelligenza artificiale e la loro distinzione rispetto a quelle tradizionali. The course deals with the main topics of artificial intelligence, starting from a historical and theoretical point of view up to present-day applied and technical issues of the discipline. Issues concerning the epistemology of artificial intelligence and cognitive science are topics of the course as well.

*Adjunct professor of the course on Knowledge Representation and Extraction held by the international course on Digital Humanities and Digital Knowledge of the University of Bologna* **a.y. 19/20**

Rappresentazione della conoscenza come metodi logici computazionali (grafi della conoscenza, modelli di progettazione ontologica, logica di descrizione, quadri di dati collegati) Estrazione della conoscenza come ibridazione di euristiche basata su regole (scraping, schemi linguistici, analisi dei dati basata su grafici) o metodi statistici (apprendimento automatico, data mining) per l'estrazione di dati da contenuti arbitrari.

#### RESEARCH PROJECTS AND ROLE

- Scientific coordinator for ISTC-CNR of the Water Health Open knowledge (WHOW) 2019-EU-IA-0089 (EU CEF Telecom - Public Open Data) project aimed at designing and implementing a framework to promote the creation of a vast ecosystem of consumption data and water quality, sanitary parameters and the spread of diseases to be reused for advanced analysis and development of innovative services. Project in progress - Financing entity: 1,237,545 Euros (CNR share: 319,000 Euros).
- Scientific coordinator for ISTC-CNR in the framework of the agreement with the Higher Institute for Environmental Protection and Research (ISPRA) with the aim of studying, designing and implementing the knowledge graph of Italian environmental data. Project in progress - Financing amount: 45,000 Euros.
- Coordinator of the technical panel activated and aimed at drafting and perfecting the specification documents to be included in the tender specifications, provided for in the context of the Developing national and Regional Infrastructural nodes of dAriaH in Italy (DARIAH) project (PON I&R PIR01.00022) . Project in progress - Financing entity: 13,860,278 Euros.
- Scientific responsible for ISTC-CNR as part of the agreement with the Digital Innovation Team of the Presidency of the Council of Ministers aimed at designing and implementing the network of ontologies of the Italian Public Administration known as OntoPiA. Project completed - Financing amount: 96,274.91 Euros.
- Principal investigator for ISTC-CNR of the "TURBO" project (protocol number CNR 861 of 18/03/2016) aimed at carrying out the research activity, feasibility analysis, drafting of technical specifications and development support for the creation of the semantic engine for the Turbo Adv company whose purpose is the classification of web content based on Machine Learning techniques supervised in the context of programmatic advertisement. Project completed - Financing amount: 30,000 Euros.
- Scientific coordinator of the project "Measuring the Impact of Research: Alternative Indicators" (ANVUR Board of Directors n.92 of 8/7/2015) funded by the National Evaluation Agency of the University and Research System (ANVUR) within the framework of topic 'Research evaluation methods' of the program "Idee di Ricerca". Project completed - Financing amount: 15,000 Euros
- Task leader for the design of the Ontology Network in the project "Managing active and healthy aging with use of caring service robots" (MARIO) (EU Horizon 2020). Project finished.
- Role of research and development in the project "Managing active and healthy aging with use of caring service robots" (MARIO) (EU Horizon 2020). Project finished.
- Research and development role in the project "Cultural ONtology - Ontology and Linked Open Data on Italian cultural institutes and sites and events" (Cultural-ON) born as part of a protocol between the CNR and the Ministry of goods and activities cultural and tourism (MiBACT). Project finished.
- Task leader in the " Science & Technology Digital Library " (ST & DL) project born as part of a protocol between MIUR and CNR, thanks to an agreement signed between CNR and AgID. Project finished.
- Research and development role in the Interoperable cloud PiattafoRme project for SMART-government (PRISMA) (PON Research and Competitiveness PONREC).
- Research and development role in the "Interactive Knowledge Stack" (IKS) project (IP EU FP7). Project finished.

## AWARDS

- Winner of the “Most Innovative Approach” prize at the 2nd Challenge on Concept-Level Sentiment Analysis with the software “Detecting sentiment polarities with Sentilo” - <http://wit.istc.cnr.it/stlab-tools/sentilo/service> - In collaboration with: M. Mongiovì
- Finalist at the Semantic Web Challenge 2014 with the software “SHELDON: Semantic Holistic framEwork for LinkeD ONtology data” - <http://wit.istc.cnr.it/stlab-tools/sheldon> - In collaboration with: D. Reforgiato Recupero, S. Consoli, A. Gangemi e V. Presutti
- Finalist at the Semantic Web Challenge 2011 with the software “Aemoo: exploratory search based on knowledge patterns over the Semantic Web” - <http://wit.istc.cnr.it/aemoo> - In collaboration with: A. Musetti, F. Draicchio, V. Presutti, E. Blomqvist, A. Gangemi e P. Ciancarini

## LANGUAGES AND TECHNOLOGIES

- Languages and technologies for the Semantic Web: RDF, OWL, SPARQL, SWRL, Semantic Wikis, Jena, Sesame, OWL API, Apache Stanbol
- Web Technologies: XML-based languages, JSON, SOAP
- Frameworks and application servers: OSGi, Maven, JBoss
- Programming languages: Java, C, C++, Pythonm Common Lisp, Scheme, JSP, ASP, PHP, Javascript, Unix shell scripts
- Tools: Eclipse, TopBraid, Protégé4, NeOn toolkit
- Operating systems: Unix/Linux, Mac OS X, Windows.

## INVOLVEMENT IN ORGANISING AND PROGRAM COMMITTEES

- Organising Committee member as Metadata Chair at the 13th Extended Semantic Web Conference (ESWC 2016)
- Program Committee member at the Research Track of the 13th Extended Semantic Web Conference (ESWC 2016)
- Program Committee member at the Poster and Demo track of the 13th Extended Semantic Web Conference (ESWC 2016)
- Program Committee member at Poster Track of the 25th International World Wide Web Conference (WWW 2016)
- Organising Committee member as Metadata Chair at the 12th Extended Semantic Web Conference (ESWC 2015)
- Organizing Committee member of the Open Knowledge Extraction Challenge (OKE Challenge 2015)
- Program Committee member at the Research Track of the 12th Extended Semantic Web Conference (ESWC 2015)
- Program Committee member at the Poster and Demo track of the 12th Extended Semantic Web Conference (ESWC 2015)
- Program Committee member at the 3rd Workshop on Linked Data for Information Extraction (LD4IE 2015)
- Program Committee member at the 1st co-located Workshop of WWW2015 Semantics, Analytics, Visualisation: Enhancing Scholarly Data (SAVE-SD 2015)
- Program Committee member at the Research Track of the 6th Workshop on Ontology and Semantic Web Patterns (WOP 2015)
- Program Committee member at the Web Technologies track of ACM SAC 2014
- Program Committee member at the Research Track of the 11th Extended Semantic Web Conference (ESWC 2014)
- Program Committee member at the Poster and Demo track of the 11th Extended Semantic Web Conference (ESWC 2014)
- Organizing Committee member as Metadata Chair at the 11th Extended Semantic Web Conference (ESWC 2014)
- Program Committee member at the Research Track of the 10th International Conference on Semantic Systems (SEMANTiCS 2014)
- Program Committee member at the Poster track of the 10th International Conference on Semantic Systems (SEMANTiCS 2014)

tic Systems (SEMANTiCS poster 2014)

- Program Committee member at the Research Track of the 5th Workshop on Ontology and Semantic Web Patterns (WOP 2014)
- Program Committee member at the 2nd Workshop on Linked Data for Information Extraction (LD4IE 2014)
- Program Committee member at the Poster and Demo track of the 14th International Semantic Web Conference 2014 (ISWC 2014)
- Program Committee member at the Web Technologies track of ACM SAC 2013
- Program Committee member at the Poster and Demo track of the 13th International Semantic Web Conference 2013 (ISWC 2013)
- Program Committee member at the 9th International Conference on Semantic Systems (iSemantics 2013)
- Program Committee member at the Research Track of the 4th Workshop on Ontology and Semantic Web Patterns (WOP 2013)
- Program Committee member at the Pattern Track of the 3rd Workshop on Ontology and Semantic Web Patterns (WOP 2012)
- Program Committee member at the 8th International Conference on Semantic Systems (iSemantics 2012)

## PUBLICATIONS

### Peer reviewed papers on international journals

E. Boetto, M.P. Fantini, A. Gangemi, D. Golinelli, M. Greco, **A.G. Nuzzolese**, V. Presutti, F. Rallo. Using altmetrics for detecting impactful research in quasi-zero-day time-windows: the case of COVID-19. *Scientometrics* 126, 1189-1215 (2021). DOI: 10.1007/s11192-020-03809-7 - Journal Impact Factor: 2.77

V.A. Carriero, A. Gangemi, M.L. Mancinelli, **A.G. Nuzzolese**, V. Presutti, C. Veninata. Pattern-based design applied to cultural heritage knowledge graphs. *Semantic Web* 12(2): 313-357 (2021). DOI: 10.3233/SW-200422 - Journal Impact Factor: 1.786

D. Golinelli, E. Boetto, G. Carullo, **A. G. Nuzzolese**, M. P. Landini, M. P. Fantini. How the COVID-19 pandemic favored the adoption of digital technologies in healthcare: a systematic review of early scientific literature. *Journal of Medical Internet Research* 22(11) (2020). DOI: 10.2196/22280 - Journal Impact Factor: 4.945

D. Golinelli, **A.G. Nuzzolese**, E. Boetto, F. Rallo, M. Greco, M. Degli Esposti, M.P. Fantini. Early scientific response to COVID-19 epidemic: a scientometric perspective. *European Journal of Public Health* 30(Supplement\_5):ckaa166.601 (2020). DOI: 10.1093/eurpub/ckaa166.601 - Journal Impact Factor: 2.391

P. Ciancarini, **A. G. Nuzzolese**, V. Presutti, D. Russo. SQuAP-Ont: An ontology of software quality relational factors from financial systems. *Semantic Web Journal* 11(6) (2020). DOI: 10.3233/SW-200372 - Journal Impact Factor: 3.524

S. Peroni, P. Ciancarini, A. Gangemi, **A. G. Nuzzolese**, F. Poggi, V. Presutti. The practice of self-citations: a longitudinal study. *Scientometrics* 123(1): 253-282 (2020). DOI: 10.1007/s11192-020-03397-6 - Journal Impact Factor: 2.77

**A. G. Nuzzolese**, P. Ciancarini, A. Gangemi, S. Peroni, F. Poggi, V. Presutti. Do altmetrics work for assessing research quality? *Scientometrics* 118(2): 539-562 (2019). DOI: 10.1007/s11192-018-2988-z - Journal Impact Factor: 2.770

F. Poggi, P. Ciancarini, A. Gangemi, **A. G. Nuzzolese**, S. Peroni, V. Presutti. Predicting the

results of evaluation procedures of academics. *PeerJ Computer Science* 5: e199 (2019). DOI: 10.7717/peerj-cs.199

S. Consoli, V. Presutti, D. Reforgiato Recupero, **A. G. Nuzzolese**, S. Peroni, M. Mongiovì, and Aldo Gangemi: Producing Linked Data for Smart Cities: The Case of Catania. *Big Data Research* 7: 1-15 (2017). DOI: 10.1016/j.bdr.2016.10.001 - Journal Impact Factor: 2.952

S. Peroni, F. Osborne, A. Di Iorio, **A. G. Nuzzolese**, F. Poggi, F. Vitali, E. Motta: Research Articles in Simplified HTML: a Web-first format for HTML-based scholarly articles. *PeerJ Computer Science* 3: e132 (2017). DOI: 10.7717/peerj-cs.132

**A. G. Nuzzolese**, V. Presutti, A. Gangemi, S. Peroni and P. Ciancarini. Aemoo: Linked Data exploration based on Knowledge Patterns. *Semantic Web Journal* 8(1): 77-112 (2017). DOI: 10.3233/SW-160222 - Journal Impact Factor: 1.786

A. Gangemi, D. Reforgiato Recupero, M. Mongiovì, **A. G. Nuzzolese**, and V. Presutti. Identifying motifs for evaluating open knowledge extraction on the Web. *Knowledge-Based Systems* 108: 3-41 (2016). DOI: 10.1016/j.knosys.2016.05.023 - Journal Impact Factor: 3.433

A. Gangemi, V. Presutti, D. Reforgiato Recupero, **A. G. Nuzzolese**, F. Draicchio, and M. Mongiovì. Semantic Web Machine Reading with FRED. *Semantic Web Journal*. In Press. - Journal Impact Factor: 1.786. DOI: 10.3233/SW-160240 - Journal Impact Factor: 1.786

V. Presutti, **A. G. Nuzzolese**, S. Consoli, A. Gangemi, and D. Reforgiato Recupero. From hyperlinks to Semantic Web properties using Open Knowledge Extraction. *Semantic Web Journal* 7(4):351:378 (2016). DOI: 10.3233/SW-160221 - Journal Impact Factor: 1.786

D. Reforgiato Recupero, V. Presutti, S. Consoli, and A. Gangemi, **A. G. Nuzzolese**. Sentilo: Frame-Based Sentiment Analysis. *Cognitive Computation* 7(2): 211-225 (2015). DOI: 10.1007/s12559-014-9302-z - Journal Impact Factor: 1.440

#### Peer reviewed papers on international conferences

V. A. Carriero, A. Gangemi, M. L. Mancinelli, L. Marinucci, **A. G. Nuzzolese**, V. Presutti, C. Veninata. ArCo: The Italian Cultural Heritage Knowledge Graph. In *Proceedings of the 18th International Semantic Web Conference, ISWC 2019*, Lecture Notes in Computer Science 11779:36-52 2019: 36-52. Springer, Berlin, Germany, 2019 - CORE Conference Rank: A

Z. Zhang, **A. G. Nuzzolese**, and A. L. Gentile. Entity Deduplication on ScholarlyData. In *E. Blomqvist, D. Maynard, A. Gangemi, R. Hoekstra, P. Hitzler, and O. Hartig (Eds.), Proceedings of 14th International Conference, ESWC 2017*, Lecture Notes in Computer Science 10249:85-100. Springer, Berlin, Germany, 2017 - CORE Conference Rank: A

A. Di Iorio, **A. G. Nuzzolese**, S. Peroni, F. Poggi, F. Vitali, P. Ciancarini. In *Proceedings of the 13th Italian Research Conference on Digital Libraries (IRCDL 2017)*, Communications in Computer and Information Science, Vol. 733:3-19. Springer International Publishing, 2017

**A. G. Nuzzolese**, A. L. Gentile, V. Presutti, and A. Gangemi. Conference Linked Data: the ScholarlyData project. In *Y. Gil, A. Gray, and M. Sabou (Eds.), Proceedings of the 15th International Semantic Web Conference (ISWC 2016)*, Lecture Notes in Computer Science - To Appear. Springer, Berlin, Germany, 2016

A. Gangemi, **A. G. Nuzzolese**, V. Presutti, and D. Reforgiato Recupero. Adjective Semantics in



Open Knowledge Extraction. In *G. Guizzardi, R. Ferrario, and W. Kuhn (Eds.), Proceedings of the 9th International Conference on Formal Ontology in Information Systems (FOIS 2016)*, Frontiers in Artificial Intelligence and Applications 283:167-180. IOS Press, Amsterdam, The Netherlands, 2016. DOI: 10.3233/978-1-61499-660-6-167

Valentina Presutti, Giorgia Lodi, **Andrea Giovanni Nuzzolese**, Aldo Gangemi, Silvio Peroni, Luigi Asprino: The Role of Ontology Design Patterns in Linked Data Projects. In *K. Agusa et al (Eds.), Proceedings of the 35th International Conference on Conceptual Modeling (ER 2016)*, Lecture Notes in Computer Science 9974: 113-121. Springer, Berlin, Germany, 2016. DOI: 10.1007/978-3-319-46397-1\_9

M. Mongioví, D. Reforgiato Recupero, A. Gangemi, V. Presutti, **A. G. Nuzzolese**, and S. Consoli. Semantic reconciliation of knowledge extracted from text through a novel machine reader. In *K. Barker and J. M. Gómez-Pérez (Eds.), Proceedings of the 8th International Conference on Knowledge Capture (K-CAP 2015)*, 25:1-25:4. ACM, New York, USA, 2015. DOI: 10.1145/2815833.2816945

V. Presutti, S. Consoli, **A. G. Nuzzolese**, D. Reforgiato Recupero, A. Gangemi, I. Bannour, and H. Zargayouna. Uncovering the Semantics of Wikipedia Pagelinks. In *P. Lambrix, E. Hyvönen, E. Blomqvist, V. Presutti, G. Qi, U. Sattler, Y. Ding, C. Ghidini (Eds.), Proceedings of the 19th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2014)*, Lecture Notes in Computer Science 8982:413-428. Springer, Berlin, Germany, 2014. DOI: 10.1007/978-3-319-13704-9\_32

P. Ciancarini, A. Di Iorio, **A. G. Nuzzolese**, S. Peroni, and F. Vitali. Evaluating citation functions in CiTO: cognitive issues. In *V. Presutti, E. Blomqvist, R. Troncy, H. Sack, I. Papadakis, and A. Tordai (Eds.), Proceedings of the 11th Extended Semantic Web Conference (ESWC 2014)*, Lecture Notes in Computer Science 8465:580-594. Springer, Berlin, Germany, 2014. DOI: 10.1007/978-3-319-07443-6\_39

S. Consoli, A. Gangemi, **A. G. Nuzzolese**, S. Peroni, V. Presutti, D. Reforgiato, and D. Spampinato. Geolinked Open Data for the Municipality of Catania. In *R. Akerkar, N. Bassiliades, J. Davies, and V. Ermolayev (Eds.), Proceedings of the 4th International Conference on Web Intelligence, Mining and Semantics (WIMS 2014)*, 1-8. ACM, New York, USA, 2014. DOI: 10.1145/2611040.2611092

**A. G. Nuzzolese**, V. Presutti, A. Gangemi, A. Musetti, and P. Ciancarini. Aemoo: exploring knowledge on the web, In *H. Davis, H. Halpin, A. Pentland, M. Bernstein, L. Adamic, H. Alani, A. Monnin, and R. Rogers (Eds.), Proceedings of the 5th Annual ACM Web Science Conference (WebSci 2013)*, 272-275. ACM, New York, USA, 2013. DOI: 10.1145/2464464.2464519

P. Ciancarini, A. Di Iorio, **A. G. Nuzzolese**, S. Peroni, and F. Vitali. Semantic Annotation of Scholarly Documents and Citations. In *M. Baldoni, C. Baroglio, G. Boella, and R. Micalizio (Eds.), Proceedings of the 13th International Conference of the Italian Association for Artificial Intelligence (AI\*IA 2013)*, Lecture Notes in Computer Science 8249:336-347. Springer, Berlin, Germany, 2013. DOI: 10.1007/978-3-319-03524-6\_29

A. Gangemi, **A. G. Nuzzolese**, V. Presutti, F. Draicchio, A. Musetti, and P. Ciancarini. Automatic typing of DBpedia entities. In *J. Heflin, A. Bernstein, and P. Cudré-Mauroux (Eds.), Proceedings of the 11th International Semantic Web Conference (ISWC 2012)*, Lecture Notes in Computer Science 7649:65-91. Springer, Berlin, Germany, 2012. DOI: 10.1007/978-3-642-35176-1\_5

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