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Curriculum Vitae

Nome: Claudia d'Amato

Data di nascita: 16/01/1977

Istruzione e Formazione

- **Doctor of Philosophy** (May, 7th 2007)**:** PhD in Computer Science, University of Bari, Italy. Supervisor: Prof. Floriana Esposito, Co-Supervisor: Dr. Nicola Fanizzi.

Dissertation: "Similarity-based Learning Methods for the Semantic Web". Full marks evaluation
External Reviewers: Prof. Steffen Staab, Prof. Ernesto Damiani

- **Master Degree** (March, 28th 2003): Master Degree in Computer Science, University of Bari. Mark 110/110 CUM LAUDE. Dissertation: "*Automatic Classification of Symbolic Objects by O-NN Algorithm with weighted distance*". Supervisors: Prof. Donato Malerba, Prof. Floriana Esposito

Professional Activities

- December 21st 2019 – today: **Assiciate professor**, S.S.D. INF/01
- December 21st 2016 – December 20th 2019: **Assisstant professor (RTD-B tenure track for Associate professorship)**, S.S.D. INF/01
- January 25th – December 20th 2016: **Assisstant professor (RTD-A)**, S.S.D. INF/01

Research Fellowship (Assegni di Ricerca)

- April 1st 2015 – January 24th 2016: **Research Fellow (assegno di ricerca** ex. art.22 Legge 240/2010**) Department of Computer Science, University of Bari.** Title of the research: "Design and development of methods for discovery of semantically annotated knowledge bases (linked data sets)", S.S.D. INF/01, ING-INF/05;
- December 16th 2011 – December 15th 2013: **Research Fellow (assegno di ricerca** ex. art.22 Legge 240/2010**) Department of Computer Science, University of Bari.** Title of the research: "Research and Development of Machine Learning methods for ontological knowledge from weakly structured data" S.S.D. INF/01, ING-INF/05; (1+1 year)
- April, 2nd 2007 – April, 1st 2011: **Research Fellow (assegno di ricerca** ex. art. 51, comma 6, legge 27/12/1997, n.449**) Department of Computer Science, University of Bari.** Title of the research: "Inductive learning computational models for first order hybrid formalisms" S.S.D. ING-INF/05; INF/01 (2+2 years)

PhD Scholarship

- January, 31st 2004 – October, 31st 2006: **PhD Student** at Department of Computer Science, University of Bari.

Collaborations as Associated Researcher (Co.Co.Co)

- July, 9th 2014 – January 8th 2015: **Collaboration (Co.Co.Co.) with Department of Computer Science, University of Bari** for "PUGLIA@SERVICE (L'Ingegneria dei Servizi

Internet-Based per lo sviluppo strutturale di un territorio intelligente) Project. Task: Design and development of clustering methods for grouping semantically annotated resources. Project responsible for Bari unit: Prof. Floriana Esposito.

- December, 17th 2013 – June, 16th 2014: **Collaboration (Co.Co.Co.) with Department of Computer Science, University of Bari** for "PUGLIA@SERVICE (L'Ingegneria dei Servizi Internet-Based per lo sviluppo strutturale di un territorio intelligente) Project. Task: Study of methods and techniques for mining Linked Open Data: ranking and aggregation of semantically annotated resources. Project responsible for Bari unit: Prof. Floriana Esposito.
- August, 8th – December, 7th 2011: **Collaboration (Co.Co.Co.) with Department of Computer Science, University of Bari** for SemanticPA (Tecnologie di Semantic Web per la Pubblica Amministrazione) Project. Task: Semantic retrieval of resources within the Public Administration and available on the Web. Project Responsible: Prof. Nicola Fanizzi.
- April, 4th – August, 3rd 2011: **Collaboration (Co.Co.Co.) with Department of Computer Science, University of Bari** for SemanticPA (Tecnologie di Semantic Web per la Pubblica Amministrazione) Project. Task: Analysis and developments of methods and techniques for automatic processing of Web available resources in the Public Administration: indexing, semantic categorization, end-point delivery. Project Responsible: Prof. Nicola Fanizzi.
- November, 2nd 2006 – April, 30th 2007: **Collaboration (Co.Co.Co.) with Department of Computer Science, University of Bari** for DIPIS project (Produzione Distribuita come Sistema Innovativo). Task: Analysis of clustering methods and application to Description Logics representation for managing semantic web services. Project Responsible: Prof. Giuseppe Visaggio.
- January, 8th – March, 31st 2004: **Collaboration (Co.Co.Co.) with Department of Computer Science, University of Bari** for COLLATE project (Collaboratory for Automation, Indexing and Retrieval of Digitalized Historical archive Material). Task: analysis of classification algorithms and supervised learning to be used for web mining problems within the COLLATE Project. Project Responsible: Prof. Floriana Esposito.
- May, 19th – December, 31st 2003: **Collaboration (Co.Co.Co.) with Omar S.p.A Allaxia group:** analyst and developer for the ***Power*** project: a system for registry management and associative marketing developed for **Confartigianato**

Other Work and Research Experiences

- January, 1st – February, 15th 2012: **scientific consultant for the e-LICO European project** for the tasks: a) Recommendations on ontology design and representation of core machine learning/data mining concepts. b) Development of part of the Data Mining Ontology; c) Assessment of DM content and recommendations on content gaps to fill out.
- January, 12th – March 11th 2015: **Collaboration (Contratto collaborazione occasionale) with Department of Computer Science, University of Bari** for BIOFAR (Laboratorio Pubblico-Privato per la Biodiversità Molecolare) Project. Task: set up of the teaching material for an advanced course for high formation activities; topics: Description Logics, Ontology Design, Knowledge Management. Project Responsible: Prof. Floriana Esposito.
- April, 14th – May, 15th 2003: **Collaboration (Contratto di collaborazione occasionale) with Department of Computer Science, University of Bari** for ASSO project (Analysis System of Symbolic Official data, IST-2000-25561). Tasks: development of a software module for the empirical study of the properties of dissimilarity and matching measures for symbolic objects; test of modules; definition of a user guide for supporting in choosing the best measure. Project Responsible for the Unit of Bari: Prof. Floriana Esposito.
- March 15th – April 30th 2001: **Collaboration (Contratto collaborazione occasionale) with Department of Computer Science, University of Bari.** Task: tutoring for lab teaching on Expert Systems within the Knowledge Engineering and Expert Stems course
- September - December 2001; August - December 2000: **Part-time Student at the Department of Computer Science, University of Bari** for the analysis and design of the Information System (SIFAS) of the Science Faculty of the University of Bari.

- *May 2000:* ***Collaboration (Contratto di collaborazione occasionale) with C.I.L.A.*** *(Interdepartmental Center of Logic and Application) and University of Bari: tutoring for lesson concerning Expert Systems in the sphere of INNOVAMEDIA project.*

Honors and Awards

- Research Grant for the Annual Financing of Individual Ground Research (2018)
- Best Paper award at EKAW 2014. P. Minervini, C. d'Amato, N. Fanizzi and F. Esposito. *Adaptive Knowledge Propagation in Web Ontologies.*
- Best Workshop Paper award at URSW 2014 co-located with ISWC 2014. P. Minervini, C. d'Amato, N. Fanizzi, V. Tresp. *Learning to Propagate Knowledge in Web Ontologies.*
- Best Paper award at IEEE ICSC 2012. N. Fanizzi, C. d'Amato. F. Esposito. *Towards Numeric Prediction on OWL Knowledge Bases through Terminological Regression Trees.*
- Best Paper award at ACM SAC 2010 - SWA Track. F. Esposito, N. Fanizzi, C. d'Amato. *Recovering Uncertain Mappings through Structural Validation and Aggregation with the MoTo System.*
- PhD Thesis "*Similarity-based Learning Methods for the Semantic Web*" nominated by the Italian Commission for the AI*IA award 2007 as one of the Best Italian PhD Thesis in Artificial Intelligence
- Best best student paper award at the Italian Symposium on Advanced Database Systems (SEBD 2007) offered by Pearson Education. C. d'Amato "*Constraint Hardness for Modeling, Matching and Ranking Semantic Web services*".
- *Research Grant for three years for being a PhD student at the University of Bari (XIX Round), January 2004*

Scientific activity and Teaching

Scientific Activity *(short description)*

Claudia d'Amato's research activity concerns with the study, the analysis and the application of Machine Learning methods (with particular attention to the inductive learning methods) to the Semantic Web (SW) domain. The ultimate goal is to (semi-)automatize the ontology mining tasks that are most of the time manually performed, thus resulting to be very time consuming besides of constituting the main bottleneck to the full realization of the SW.

Claudia d'Amato started her research activity on January 2004 when she obtained a grant from the University of Bari for being a PhD student in Computer Science for three years. She ended her PhD on January 2007 and defended her PhD thesis titled "Similarity-based Learning Methods for the Semantic Web" on May 2007 resulted with full marks. From April 2004 Claudia d'Amato is a research assistant at the University of Bari - Computer Science Department. Her research activity is articulated along the following three fundamental research lines and finds its application to the Semantic Web (SW) field.

1. definition of similarity and dissimilarity measures for expressive knowledge representation formalisms adopted in the SW and formalization of their theoretical foundation
2. analysis and formalization of supervised and unsupervised learning methods for the SW
3. *analysis and formalization of methods for managing uncertain knowledge representation and uncertainty reasoning for the SW*

Teaching Activities

Thesis Supervision

Supervision and Co-supervisor of:

- PhD Thesis: 3
- Master Thesis: 15
- Bachelor Thesis: 25

Teaching activity for PhD students

International Teaching

- **"Machine Learning and Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'24) –** Face to face Teaching: 1,5 hours; Support for Research Project and Mini-project: 13 hours
- **"Machine Learning and Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'23) –** Face to face Teaching: 1,5 hours; Support for Research Project and Mini-project: 13 hours
- **"Machine Learning, Embeddings for Large Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'22) –** Face to face Teaching: 1,5 hours; Support for Research Project and Mini-project: 13 hours
- **"Mining the Semantic Web with Machine Learning: main issues that need to be known" at the Reasoning Web International Summer School (RW 2021)** - Face to face Teaching: 1 hour.
- **"Machine Learning and Knowledge Graphs: possible issues to be taken into account at the International Summer School on Combining Probability and Logic (Progic 2021)** - Face to face Teaching: 2,5 hours.
- **"Machine Learning, Embeddings for Large Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'19) –** Face to face Teaching: 1,5 hour; Support for Reach Project and Mini-project: 13 hours
- **"Machine Learning, Embeddings for Large Knowledge Graphs" at the International Semantic Web Research summer School (ISWS'18) –** Face to face Teaching: 1,5 hour; Support for Reach Project and Mini-project: 13 hours
- **"Mining the Semantic Web: the Knowledge Discovery Process in the SW" at the Winter School on Extraction and Knowledge Management (e-EGC'17) –** Face to face Teaching: 2 hours;
- **"Knowledge Discovery" at the 12th Semantic Web Summer School (SSSW 2016) –** Face to face Teaching: 1,5 hour; Support for Reach Project and Mini-project: 13 hours
- **"Knowledge Discovery" at the 11th Semantic Web Summer School (SSSW 2015) –** Face to face Teaching: 1,5 hour; Support for Reach Project and Mini-project: 13 hours

Teaching for the PhD Programme Computer Science and Mathematics at the University of Bari

- XXXV Cycle: **"Machine Learning and the Semantic Web"** (2 cfu) (jointly with Prof. Nicola Fanizzi)
- XXXIII Cycle: **"Machine Learning and the Semantic Web"** (3 cfu) (jointly with Prof. Nicola Fanizzi)

Lectureship

Lecturer for the courses:

- **"Machine Learning"**, **A.Y. 2023/2024, A.Y. 2024/2025** – Face to face teaching: 4+1 CFU (out of 7+2 CFU) – Computer Science Master Degree
- **"Machine Learning"**, **A.Y. 2023/2024, A.Y. 2023/2024** – Face to face teaching: 4+1 CFU (out of 7+2 CFU) – Computer Science Master Degree
- **"Machine Learning"**, **A.Y. 2023/2024, A.Y. 2022/2023** – Face to face teaching: 4+1 CFU (out of 7+2 CFU) – Computer Science Master Degree

- **"Machine Learning"**, **A.Y. 2021/2022, A.Y. 2020/2021** – Face to face teaching: 3+1 CFU (out of 7+2 CFU) - Computer Science Master Degree
- **"Semantic Technologies and Knowledge Graph"**, **A.Y. 2024/2025** – Face to face teaching: 2 CFU (out of 5+1 CFU) - Computer Science Master Degree
- **"Semantic Technologies and Knowledge Graph"**, **A.Y. 2023/2024** – Face to face teaching: 2 CFU (out of 5+1 CFU) - Computer Science Master Degree
- **"Semantic Technologies and Knowledge Graph"**, A.Y. **2022/2023** – Face to face teaching: 3 CFU (out of 5+1 CFU), Data Science Master Degree
- **"Semantic Web and Linked Open Data"** master degree in Data Science A.Y. **2021/2022** – Face to face teaching: 5+1 CFU - Data Science Master Degree
- **"Semantic Web Technologies"** master degree in Computer Science A.Y. **2019/2020** – Face to face teaching: 5+1 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2024/2025** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2023/2024** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2022/2023** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2021/2022** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2020/2021** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2019/2020** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2018/2019** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2017/2018** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2016/2017** – Face to face teaching: 7+2 CFU
- **"Data Bases"** bachelor degree in Computer Science A.Y. **2015/2016** – Face to face teaching: 7+2 CFU
- **"Informatics",** bachelor degree in Chemistry A.Y. **2009/2010** - Face2face teaching: 3 CFU

Teaching Assistance

Teaching Assistant for the courses:

- **Technologies for the Semantic Web**, Master degree in Informatics A.Y. **2016/2017, 2015/2016 -** Face to face teaching: 1 CFU for each A.Y. Overall: 2 CFU
- **Programming Languages**, bachelor degree in Informatics and technologies for software production A.Y. **2011/2012** - Face to face teaching: 2 CFU
- **Artificial Intelligence** Master Degree in Informatics A.Y. **2015/2016, 2014/2015, 2013/2014, 2012/2013, 2011/2012** (Methods and techniques for performing experiments) - Face to face teaching: 1 CFU for each A.Y. Overall: 5 CFU
- **Artificial Intelligence** Master Degree in Informatics A.Y. **2010/2011** (Ontologies and OWL, Description Logics, Reasoning Services in DLs, RDF and SPARQL) - Face to face teaching: 1,5 CFU
- **Artificial Intelligence** Master Degree in Informatics A.Y. **2009/2010, 2008/2009** (Ontologies and OWL, Description Logics, Reasoning Services in DLs) - Face to face teaching: 1 CFU for each A.Y; Overall: 2 CFU
- **Knowledge Engineering and Expert Systems**, Master Degree in Informatics A.Y. **2012/2013,**

2010/2011, 2009/2010, 2008/2009, 2007/2008 (practical exercises for the realization of expert systems in clips) - Face to face: 1 CFU for each A.Y; Overall: 5 CFU

- **Programming Languages**, bachelor degree in Informatics and technologies for software production **A.Y. 2008/2009** (practical exercises with JavaCC) - Face2face teaching: 1 CFU
- **Machine Learning course,** Master degree in Computer Science. **A.Y. 2004/2005 -** Face to face teaching: 1 CFU

Tutoring

Tutoring for the courses:

- **Programming Languages**, bachelor degree in Informatics and technologies for software production **A.Y. 2011/2012 -** Face to face teaching: 1 CFU
- **Algorithms and Structured Data (lab.)**, Master Degree in Informatics **A.Y. 2004/2005** - Face to face teaching: 2 CFU
- **Knowledge Engineering and Expert Systems (laboratory)**, Master Degree in Informatics **A.Y. 2000/2001 – 2001/2002 – 2002/2003 – 2003/2004 – 2004/2005** - Face to face teaching: 1 CFU for each A.Y; Overall 5 CFU
- **Network Programming (laboratory)**, Master Degree in Informatics. **A.Y. 2003/2004** - Face to face teaching: 2 CFU

Tutorials

Tutorials with International Workshops

- 19 December 2007 - *"Inductive Reasoning on Ontologies and Rules for the Semantic Web"* - SWAP 2007

Tutorial for Industries

Claudia d'Amato gave tutorials for the following industries on the topic reported below

- **"UML 1.4: contents and application"** - Omar S.p.A - Allaxia Group. **September 2004** - Face to face teaching: 16 hours
- **"UML 1.4: contents and application"** - Planetek Italy S.r.l. **July 2004** - Face to face teaching: 16 hours

Publications

Link Scopus: https://www.scopus.com/authid/detail.uri?authorId=49861247200

In the following the bibliometrics indicators for the research activity of Claudia d'Amato are reported jointly with the reference day and the adopted tool for the indicators computation. Afterwards, the complete list of Claudia d'Amato publications is reported, distinguishing among the following categories: Edited Works, International Journals, Book Chapters, International Conferences, International Workshops, Posters, National Conferences and National Workshops.

Overall Number of Citations: 4482	Google Scholar: 16/08/2024
H-Index: 29	Google Scholar: 16/08/2024
i10-Index: 67	Google Scholar: 16/08/2024
H-Index: 20	Scopus: 16/08/2024

Books / Monographs

1. Aidan Hogan, Eva Blomqvist, Michael Cochez, **Claudia d'Amato**, Gerard de Melo, Claudio Gutiérrez, Sabrina Kirrane, José Emilio Labra Gayo, Roberto Navigli, Sebastian Neumaier, Axel-Cyrille Ngonga Ngomo, Axel Polleres, Sabbir M. Rashid, Anisa Rula, Lukas Schmelzeisen, Juan Sequeda, Steffen Staab, Antoine Zimmermann: Knowledge Graphs. Synthesis Lectures on Data, Semantics, and Knowledge, Morgan & Claypool Publishers, pp. 1-257 (2021). ISBN-13: 978-3031007903. DOIhttps://doi.org/10.1007/978-3-031-01918-0

International Journals

1. N. Fanizzi, **C. d'Amato**: The blessing of dimensionality. Neurosymbolic Artificial Intelligence. Vol. 1(1): 1 – 15. DOI: 10.1016/j.future.2020.02.071 (2024)
2. **C. d'Amato**, L. Mahon, P. Monnin, G. Stamou: Machine Learning and Knowledge Graphs: Existing Gaps and Future Research Challenges. Transactions on Graph Data and Knowledge (TGDK) 2. Schloss Dagstuhl – Leibniz-Zentrum f¨ur Informatik. Dagstuhl Publishing, Vol. 1(1): 8:1-8:35. DOI: 10.4230/TGDK.1.1.8 (2023)
3. A. Hogan, E. Blomqvist, M. Cochez, **C. d'Amato**, G. de Melo, C. Gutiérrez, S. Kirrane, J-E. Labra Gayo, R. Navigli, S. Neumaier, A.C. Ngonga Ngomo, A. Polleres, S. M. Rashid, A. Rula, L. Schmelzeisen, J. F. Sequeda, S. Staab, A. Zimmermann: Knowledge Graphs. ACM Comput. Surv. 54(4): 71:1-71:37 DOI: 10.1145/3447772 (2022)
4. G. Rizzo, **C. d'Amato**, Nicola Fanizzi: An unsupervised approach to disjointness learning based on terminological cluster trees. Semantic Web 12(3): 423-447. DOI: 10.3233/SW-200391 (2021)
5. G. Rizzo, N. Fanizzi, **C. d'Amato**: Class expression induction as concept space exploration: From DL-Foil to DL-Focl. Future Gener. Comput. Syst. 108: 256-272. DOI: 10.1016/j.future.2020.02.071 (2020)
6. **C. d'Amato**. Machine Learning for the Semantic Web: Lessons Learnt and Next Research Directions. Semantic Web Journal, IOS Press. Vol. 11(1): 195-203. DOI: 10.3233/SW-200388 (2020)
7. G. Rizzo, N. Fanizzi, **C. d'Amato**, F. Esposito: Approximate classification with web ontologies through evidential terminological trees and forests. Int. J. Approx. Reasoning 92: 340-362. DOI: 10.1016/j.ijar.2017.10.019 (2018)
8. P. Minervini, V. Tresp, **C. d'Amato**, N. Fanizzi: Adaptive knowledge propagation in Web ontologies. ACM TRANSACTIONS ON THE WEB, vol. 12, p. 1-28, ISSN: 1559-1131, doi: 10.1145/3105961 (2018)
9. G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito: Tree-based models for inductive classification on the Web Of Data. J.ournal of Web Semantics. 45: 1-22. DOI: 10.1016/j.websem.2017.05.001 (2017)
10. P. Minervini, **C. d'Amato**, N. Fanizzi. Efficient energy-based embedding models for link prediction in knowledge graphs. Journal of Intelligent Information Systems Vol.47(1): 91-109. Springer. Berlin. DOI 10.1007/s10844-016-0414-7. ISSN: 0925-9902 (2016)
11. P. Minervini, **C. d'Amato**, N. Fanizzi, V. Tresp. Discovering Similarity and Dissimilarity Relations for Knowledge Propagation in Web Ontologies. Journal on Data Semantics Vol. Springer Berlin. ISSN: 1861-2032. doi:10.1007/s13740-016-0062-7 (2016)
12. [IJ000] C.M. Keet , A. Ławrynowicz , **C. d'Amato**, Alexandros Kalousis, Phong Nguyen, Raul Palma, Robert Stevens, Melanie Hilario. The Data Mining OPtimization Ontology. *Journal of Web Semantics. Vol. 32: 43-53.* Elsevier. *DOI:10.1016/j.websem.2015.01.001.* ISSN: 1570-8268 (2015)
13. [IJ00] N. Fanizzi, **C. d'Amato**, F. Esposito, P. Minervini. Numeric Prediction on OWL Knowledge Bases through Terminological Regression Trees. *Int. J. of Semantic Computing*. Vol. 6(4): 429-446. World Scientific Publishing Company. ISSN: 1793-351X (2012)
14. [IJ0] A. Rettinger, U. Lösch, V. Tresp, **C. d'Amato**, N. Fanizzi: Mining the Semantic Web - Statistical learning for next generation knowledge bases. *Journal of Data Mining and Knowledge Discovery*. 24(3): 613-662. ISSN: 1384-5810 (2012)

15. [IJ1] N. Fanizzi, **C. d'Amato**, F. Esposito. Induction of robust classifiers for web ontologies through kernel machines. *International Journal of Web Semantics*. Elsevier. Vol. 11:1-13. ISSN: 1570-8268 (2012)
16. [IJ2] **C. d'Amato**, N. Fanizzi, B. Fazzinga, G. Gottlob, and T. Lukasiewicz. Ontology-Based Semantic Search on the Web and its Combination with the Power of Inductive Reasoning. Annals of Mathematics and Artificial Intelligence (AMAI). Vol. 65(2-3). Springer. ISSN: 1012-2443 (print version), ISSN: 1573-7470 (electronic version). (2012)
17. [IJ3] **C. d'Amato**, S. Staab, N. Fanizzi, F. Esposito**.** DL-LINK: A Conceptual Clustering Algorithm for indexing description logics knowledge bases. *International Journal of Semantic Computing* Vol.4(4) ISSN: 1793-351X (2010)
18. [IJ4] **C. d'Amato**, N. Fanizzi, F. Esposito. Inductive Learning for the Semantic Web: What does it buy? *Semantic Web Journal*. Vol. 1(1) pp. 53-59. IOS-Press. ISSN: 1570-0844 (2010)
19. [IJ5] N. Fanizzi, **C. d'Amato**, F. Esposito. Composite Ontology Matching with Uncertain Mappings Recovery. *ACM Applied Comp Review* Vol. 11(2) ACM ISSN: 1559-6915 (2011)
20. [IJ6] F. Esposito, **C. d'Amato**, N. Fanizzi. Fuzzy Clustering for Semantic Knowledge Bases. *Fundamenta Informaticae* Vol. 99(2):187-205. IOS Press. ISSN: 0169-2968 (2010)
21. [IJ7] N. Fanizzi, **C. d'Amato**, F. Esposito. Inductive Classification of Semantically Annotated Resources through Reduced Coulomb Energy Networks. *International Journal of Semantic Web and Information System* vol.5(4) pp. 19-38 . IGI Publishing. ISSN: 1552-6283 (2009)
22. [IJ8] N. Fanizzi, **C. d'Amato**, F. Esposito. Metric-based Stochastic Conceptual Clustering for Ontologies. *Information Systems International Journal* Vol. 34(8):792-806. Elsevier. ISSN: 0306-4379 (2009)
23. [IJ9] N. Fanizzi, **C. d'Amato**, F. Esposito. Induction of Classifiers through Non-Parametric Methods for Approximate Classification and Retrieval with Ontologies. *Int. Journal of Semantic Computing* Vol.2(3) pp. 403–423. ISSN: 1793-351X (2008)
24. [IJ10] N. Fanizzi, **C. d'Amato**, F. Esposito. Evolutionary Conceptual Clustering Based on Induced Pseudo-Metrics. *International Journal of Semantic Web and Information System* Vol.4(3) ISSN: 1552-6283 (2008)
25. [IJ11] **C. d'Amato**, N. Fanizzi, F. Esposito. Ontologies: An Introduction. *EMBnet.news* vol.14(1) pp. 28-35 EMBnet Executive Board. ISSN 1023-4144 (2008)
26. [IJ12] A. Appice **C. d'Amato**, F. Esposito, D. Malerba. Classification of Symbolic Objects: A Lazy Learning Approach. *Journal of Intelligent Data Analysis* Vol.10(4) pp.301-324. IOS Press. ISSN 1088-467X (print) ISSN 1571-4128 (Online) (2006)

Book Chapters

1. **C. d'Amato:** Mining the Semantic Web with Machine Learning: Main Issues that Need to Be Known. In M. Simkus and I. Varzinczak (eds.). Reasoning Web. Declarative Artificial Intelligence - 17th Int. Summer School 2021, Leuven, Belgium, 2021, Tutorial Lectures. Vol. 13100 pp. 76-93, LNCS Springer, DOI: 10.1007/978-3-030-95481-9_4 (2021)
2. [BC1] J. Lehmann, N. Fanizzi, L. Buhmann, **C. d'Amato**. Concept Learning. In: J. Lehmann et al. Editors. *Perspective of Ontology Learning*. IOS-Press. ISBN 978-1-61499-378-0 (print *version*) ISBN 978-1-61499-379-7 (*electronic version*) (2014)
3. **C. d'Amato**, V. Bryl, L. Serafini. Semantic Knowledge Discovery and Data-Driven Logical Reasoning from Heterogeneous Data Sources. In P. CG Costa et al. (Editors). *Uncertainty Reasoning for the Semantic Web III - ISWC International Workshops, URSW 2011-2013, Revised Selected Papers.* Vol. 8816, LNCS Springer. ISBN 978-3-319-13412-3 (2014)
4. P. Minervini, **C. d'Amato**, N. Fanizzi, F. Esposito. Graph Regularization Approach to Transductive Class-Membership Learning. In P. CG Costa et al. (Editors). *Uncertainty Reasoning for the Semantic Web III - ISWC International Workshops, URSW 2011-2013, Revised Selected Papers.* Vol. 8816,

LNCS Springer. ISBN 978-3-319-13412-3 (2014)

5. P. Minervini, **C. d'Amato**, N. Fanizzi, F. Esposito. Learning Probabilistic Description Logic Concepts Under Alternative Assumptions on Incompleteness. In P. Costa et al. (Editors). *Uncertainty Reasoning for the Semantic Web III - ISWC Int. Workshops, URSW 2011-2013, Revised Selected Papers.* Vol. 8816, LNCS Springer. ISBN 978-3-319-13412-3 (2014)
6. [BC2] **C. d'Amato**, N. Fanizzi, B. Fazzinga, G. Gottlob, T. Lukasiewicz. *Semantic Web Search and Inductive Reasoning.* In P. CG Costa et al. (Editors). *Uncertainty Reasoning for the Semantic Web II*. LNCS/LNAI series, Vol. 7123, pp. 237-261. Springer. ISBN/ISSN: 978-3-642-35974-3 (2013)
7. [BC3] G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito. *Assertion Prediction with Ontologies through Evidence Combination.* In P. CG Costa, C. d'Amato, N. Fanizzi, K. Laskey, K. Laskey, T. Lukasiewicz, M. Nickles, M. Pool (Editors). *Uncertainty Reasoning for the Semantic Web II*. LNCS/LNAI series. Vol. 7123:282-299. Springer. ISBN/ISSN: 978-3-642-35974-3 (2013)
8. [BC4] **C. d'Amato**, N. Fanizzi, T. Lukasiewicz, F. Esposito. Representing Uncertain Concepts in Rough Description Logics via Contextual Indiscernibility Relations. In P. Costa et al. (Ed) *Uncertainty Reasoning for the Semantic Web II*. LNCS/LNAI, series. Vol. 7123:300-314. Springer. ISBN/ISSN: 978-3-642-35974-3 (2013)
9. [BC5] N. Fanizzi, **C. d'Amato**, F. Esposito. Machine Learning Methods for Ontology Mining. In: Phillip Sheu, Heather Yu, C. V. Ramamoorthy, Arvind K. Joshi, Lotfi A. Zadeh. *Semantic Computing*. Wiley/IEEE, ISBN/ISSN: 978-0-470-46495-3 (2010).
10. [BC6] F. Esposito, **C. d'Amato**, N. Fanizzi. Partitional Conceptual Clustering of Web Resources Annotated with Ontology Languages. In: B. BERENDT, D. MLADENIC, M. DEGEMMIS, G. SEMERARO, M. SPILIOPOULOU, G. STUMME, V. SVATEK, F. ZELEZNY EDS.. *Knowledge Discovery Enhanced with Semantic and Social Information*. Vol. 220, p. 53-70, BERLIN: Springer-Verlag, ISBN/ISSN: 978-3-642-01890-9 (2009)
11. [BC7] **C. d'Amato**, N. Fanizzi, F. Esposito. Analogical Reasoning in Description Logics. In Paulo Cesar G. da Costa et al. (Eds.) *Uncertainty Reasoning for the Semantic Web I, ISWC International Workshops, URSW 2005-2007, Revised Selected and Invited Papers* Springer, LNCS Series Vol. 5327 pp. 330-347. Springer. ISBN 978-3-540-89764-4 (2008).
12. [BC8] N. Fanizzi, **C. d'Amato**, F. Esposito. Approximate Measures of Semantic Dissimilarity under Uncertainty. In Paulo Cesar G. da Costa et al. (Eds.) *Uncertainty Reasoning for the Semantic Web I, ISWC International Workshops, URSW 2005-2007, Revised Selected and Invited Papers* Springer, LNCS Series Vol. 5327 pp. 348-365. Springer. ISBN 978-3-540-89764-4 (2008).
13. [BC9] F. Esposito, **C. d'Amato**. An Agglomerative Hierarchical Clustering Algorithm for Improving Symbolic Object Retrieval. In Brito, P.; Bertrand, P.; Cucumel, G.; De Carvalho, F. (Eds.) S*elected Contributions in Data Analysis and Classification. Studies in Classification, Data Analysis, and Knowledge Organization*. 45-54, Springer. ISBN: 978-3-540-73558-8 (Print) 978-3-540-73560-1 (Online) (2007)

International Conferences

1. R. Barile, **C. d'Amato,** N. Fanizzi: Explanation of Link Predictions on Knowledge Graphs via Levelwise Filtering and Graph Summarization. In: The Semantic Web - 21st International Conference, ESWC 2024 Proceedings. Vol. 14664 pp. 180-198, LNCS Springer, DOI: 10.1007/978-3-031-60626-7_10 (2024)
2. N. Fanizzi, **C. d'Amato**: Towards Interpretable Probabilistic Classification Models for Knowledge Graphs. In: Proceedings of the 16th IEEE International Conference on Signal Image Technology and Internet-Based Systems (SITIS 2022), Track ISSA (Intelligent Systems, Services, and Applications). IEEE (2022)
3. **C. d'Amato**, N. F. Quatraro, N. Fanizzi: Injecting Background Knowledge into Embedding Models for Predictive Tasks on Knowledge Graphs. In: The Semantic Web - 18th International Conference, ESWC 2021 proceedings. Vol. 12731 pp. 441-457, LNCS Springer, doi: 10.1007/978-3-030-77385-4_26 (2021)

4. Duc Minh Tran, **Claudia d'Amato**, Andrea G. B. Tettamanzi, Binh Thanh Nguyen. Constructing Metrics for Evaluating Multi-Relational Association Rules in the Semantic Web from Metrics for Scoring Association Rules. Preoceedings of International Conference on Computing and Communication Technologies (RIVF 2019) pp. 1-6. IEEE (2019)
5. Nicola Fanizzi, Giuseppe Rizzo, **Claudia d'Amato**. Boosting DL Concept Learners. Proceedings of the European Semantic Web Conference (ESWC 2019). Vol. 11503, LNCS, Springer, pp. 68-83 (2019)
6. Tran Duc Minh, **Claudia d'Amato**, Binh Thanh Nguyen, Andrea G. B. Tettamanzi. Comparing Rule Evaluation Metrics for the Evolutionary Discovery of Multi-relational Association Rules in the Semantic Web. In: Proceedings of the 21st European Conference on Genetic Programming (EuroGP 2018) Vol. 10781, p. 289--305, Springer, LNCS. ISBN: 978-3-319-77552-4, doi: 10.1007/978-3-319-77553-1_18 (2018)
7. Giuseppe Rizzo, Nicola Fanizzi, **Claudia d'Amato**, Floriana Esposito. A Framework for Tackling Myopia in Concept Learning on the Web of Data. In: C. Faron-Zucker et al. (editor): Knowledge Engineering and Knowledge Management (EKAW 2018), Proceedings. LNCS, vol. 11313, p. 338 - 354, SPRINGER, ISBN: 978-3-030-03666-9, doi: 10.1007/978-3-030-03667-6_22 (2018)
8. Nicola Fanizzi, Giuseppe Rizzo, **Claudia d'Amato**, Floriana Esposito. DLFoil: Class Expression Learning Revisited. In: C. Faron-Zucker et al. (editor): Knowledge Engineering and Knowledge Management (EKAW 2018), Proceedings. LNCS, vol. 11313, p. 98 - 113, SPRINGER, ISBN: 978-3-030-03666-9, doi: 10.1007/978-3-030-03667-6_7 (2018)
9. G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito. Terminological Cluster Trees for Disjointness Axiom Discovery. In: E. Blomqvist D. Maynard A. Gangemi R. Hoekstra P. Hitzler Olaf Hartig. (a cura di): E. Blomqvist D. Maynard A. Gangemi R. Hoekstra P. Hitzler Olaf Hartig, The Semantic Web. LNCS, vol. 10249, p. 184-201, HEIDELBERG:SPRINGER, ISBN: 978-3-319-58067-8, ISSN: 0302-9743, doi: 10.1007/978-3-319-58068-5_12 (2017)
10. Tran Duc Minh, **C. d'Amato**, Binh Thanh Nguyen, Andrea G. B. Tettamanzi. An evolutionary algorithm for discovering multi-relational association rules in the semantic web. In: Proceedings of the Genetic and Evolutionary Computation Conference,GECCO 2017, Berlin, Germany, July 15-19, 2017. p. 513-520, ACM, ISBN: 978-1-4503-4920-8, doi: 10.1145/3071178.3079196 (2017)
11. **C. d'Amato**, A. Tettamanzi, T. Minh. Evolutionary Discovery of Multi-Relational Association Rules from Ontological Knowledge Bases. *In Proc. of the Int. Conference on Knowledge Engineering and Knowledge Management (EKAW 2016)*. To appear. (2016)
12. G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito. Approximating Numeric Role Fillers via Predictive Clustering Trees for Knowledge Base Enrichment in the Web of Data. *In Procedings of the Discovery Science International Conference (DS 2016)*. Vol. 9956:1-17 LNAI Series. Springer Verlag. DOI: 10.1007/978-3-319-46307-0_7. (To appear)
13. **C. d'Amato**, S. Staab, A. Tettamanzi, T. Minh, F. Gandon. Ontology Enrichment by Discovering Multi-Relational Association Rules from Ontological Knowledge Bases. *In Proc. of the ACM Int. Symposium on Applied Computing (SAC 2016)*. ACM. pp. 333-338. ISBN: 978-1-4503-3739-7. (2016)
14. P. Minervini, **C. d'Amato**, N. Fanizzi. Leveraging the Schema in Latent Factor Models for Knowledge Graph Completion. *In Proceedings of the 31st ACM International Symposium on Applied Computing (SAC 2016)*. ACM. pp. 327-332. ISBN: 978-1-4503-3739-7. (2016)
15. P. Minervini, **C. d'Amato**, N. Fanizzi, F. Esposito - Scalable Learning of Entity and Predicate Embeddings for Knowledge Graph Completion. *In Proceedings of the IEEE International Conference on Machine Learning and Applications (ICMLA 2015).* IEEE Computer Society Press. pp. 162-167. ISBN: 978-1-5090-0287-0 (2015)
16. G. Rizzo, **C. d'Amato**, N. Fanizzi. On the Effectiveness of Evidence-based Terminological Decision Trees. *In Proceedings of the 22nd Int. Symposium on Methodologies for Intelligent Systems (ISMIS'15).* Vol. 9384:139-149. LNCS. Springer. ISBN: 978-3-319-25251-3 (2015)
17. G. Rizzo, **C. d'Amato**, N. Fanizzi. F. Esposito. Inductive Classification through Evidence-based Models and their Ensembles. *In Proc. of the Extended Semantic Web Conference (ESWC 2015)*. LNCS, Vol. 9088, pp 418-433. Springer. ISBN: 978-3-319-18817-1 (2015)
18. P. Minervini, **C. d'Amato**, N. Fanizzi. F. Esposito. A Gaussian Process Model for Knowledge Propagation in Web Ontologies. *In Proc. of the IEEE Int. Conf. on Data Mining (ICDM 2014)*. pp.

929 – 934. IEEE Comp. Society Press. ISBN: 978-1-4799-4302-9 (2014)

19. P. Minervini, **C. d'Amato**, N. Fanizzi, F. Esposito: Adaptive Knowledge Propagation in Web Ontologies. *In Proceedings of the International Conference on Knowledge Engineering and Knowledge Management (EKAW 2014)*. Vol. 8876. pp. 303 - 319. LNCS Springer. ISBN 978-3-319-13703-2 (2014)
20. G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito. Tackling the Class-Imbalance Learning Problem in Semantic Web Knowledge Bases. *In Proc. of the International Conference on Knowledge Engineering and Knowledge Management* (EKAW 2014). Vol. 8876. pp. 453-468. LNCS Springer. ISBN 978-3-319-13703-2 (2014)
21. [ICL001] G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito. Towards Evidence-based Terminological Decision Trees. *In proceedings of the 15th Int. Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems*. Vol. 442, pp. 36-45 CCIS Series Springer. ISBN: 978-3-319-08794-8 (2014)
22. [ICL01]P. Minervini, **C. d'Amato**, N. Fanizzi, F. Esposito: Transductive Inference for Class-Membership Propagation in Web Ontologies. *In The Semantic Web: Semantics and Big Data, 10th Int. Conf. (ESWC 2013) Proceedings*. Vol. 7882, pp. 457-471. LNCS Series. Springer. ISBN: 978-3-642-38287-1. (2013)
23. [ICL0000] P. Minervini, N. Fanizzi, **C. d'Amato**, F. Esposito. Rank Prediction for Semantically Annotated Resources. *In Proc. of the 28th ACM Symposium On Applied Computing (SAC 2013) – SWA Track*. p. 333-338 ACM. ISBN: 978-1-4503-1656-9 (2013)
24. [ICL0] N. Fanizzi, **C. d'Amato**, F. Esposito. Mining Linked Open Data through Semi-supervised Learning Methods based on Self-training. *In: Proceedings of the Sixth IEEE International Conference on Semantic Computing (ICSC 2012)*. pp. 277-284. NEW YORK:IEEE Computer Society. ISBN: 978-1-4673-4433-3 (2012)
25. [ICL00] N. Fanizzi, **C. d'Amato**, F. Esposito. Towards Numeric Prediction on OWL Knowledge Bases through Terminological Regression Trees. *Proceedings of the Sixth IEEE International Conference on Semantic Computing (ICSC 2012*). pp. 325-332. NEW YORK:IEEE Computer Society. (2012) ISBN: 978-1-4673-4433-3 (2012)
26. [ICL000] **C. d'Amato**, V. Bryl, L. Serafini. Semantic Knowledge Discovery from Heterogeneous Data Sources. *Proceedings of the International Conference on Knowledge Engineering and Knowledge Management (EKAW 2012)*. A. ten Teije et al (Ed.). Vol. 7603 pp. 26-31. LNCS, Springer. (2012). ISBN: 978-3-642-33875-5
27. [IC1] P. Minervini, **C. d'Amato**, N. Fanizzi. Learning Probabilistic Description Logic Concepts Under Different Assumptions on Missing Knowledge. *In Proc. of the 27th ACM Symposium On Applied Computing (SAC 2012) – SWA Track*. pp. 378 - 383 ACM. ISBN 978-1-4503-0857-1 (2012)
28. [IC2] N. Fanizzi, **C. d'Amato.** Learning with Semantic Kernels for Clausal Knowledge Bases. *Foundations of Intelligent Systems - 19th International Symposium (ISMIS 2011)*. Vol. 6804. pp. 250-259. LNCS Springer. ISBN 978-3-642-21915-3 (2011).
29. [IC3] G. Rizzo, N. Fanizzi, **C. d'Amato**, F. Esposito. Prediction of class and property assertions on OWL ontologies through evidence combination. *Proceedings of the Int. Conference on Web Intelligence, Mining and Semantics (WIMS 2011)*. ACM. ISBN 978-1-4503-0148-0 (2011).
30. [IC4] **C. d'Amato**, S. Staab, N. Fanizzi, F. Esposito. Efficient Resource Retrieval from Semantic Knowledge Bases. *Proceedings of the IEEE Int. Conf. on Semantic Computing (ICSC 2010).* pp. 244 - 251. IEEE Computer Society. ISBN 978-1-4244-7912-2 (2010).
31. [IC5] N. Fanizzi, **C. d'Amato**, F. Esposito. Induction of Concepts in Web Ontologies through Terminological Decision Trees. *ECML/PKDD, Europ. Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases.* Vol. 6321 pp. 442—457. LNCS Series, Springer. ISBN: 978-3-642-15879-7 (2010).
32. [IC6] **C. d'Amato**, N. Fanizzi, B. Fazzinga, G. Gottlob, T. Lukasiewicz. Combining semantic web search with the power of inductive reasoning. *Proc. Of SUM 2010, 4th International Conference on Scalable Uncertainty Management*. Vol. 6379 pp. 137 – 150. LNCS Springer. ISBN 978-3-642-15950-3 (2010).
33. [IC7] N. Fanizzi, **C. d'Amato**, F. Esposito. Learning to Rank Individuals in Description Logics Using Kernel Perceptrons. In: P. Hitler, T. Lukasiewicz (editors). *Proceeding of the International Conference on Web Reasoning and Rule Systems (RR 2010)*. Vol. 6333, p. 173-181. Springer,

LNCS. ISBN 978-3-642-15917-6 (2010)
34. [IC8] A. Lawrynowicz, **C. d'Amato**, N. Fanizzi. A Refinement Operator Based Method for Semantic Grouping of Conjunctive Query Results. In R. Setchi et al. (editors). Porc. *of the Int. Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2010)*. Part I, vol. 6276. Springer, LNCS/LNAI. ISBN: 978-3-642-15386-0 (2010)
35. [IC9] N. Fanizzi, **C. d'Amato**, F. Esposito. Towards Learning to Rank in Description Logics. In H. Coelho et al. (editors). *Proc. of the Europ. Conf. on Artificial Intelligence (ECAI 2010)*. Vol. 215, pp. 985-986. IOS Press. ISBN: 978-1-60750-605-8. (2010).
36. [IC10] **C. d'Amato**, N. Fanizzi, A. Lawrynowicz. Categorize By: Deductive Aggregation of Semantic Web Query Results. *In Proc. of the Extended Sem. Web Conference (ESWC 2010)*. Vol. 6088, pp. 91-105. Springer, LNCS. ISBN: 978-3-642-13485-2 (2010)
37. [IC11] F. Esposito, N. Fanizzi, **C. d'Amato**. Recovering Uncertain Mappings through Structural Validation and Aggregation with the MoTo System. I*n S.Y. Shin et al. (editors). Proceeding of the ACM International Symposium On Applied Computing (SAC 2010 - SWA Track)*. pp. 1428-1432. ACM. ISBN: 978-1-60558-639-7 (2010).
38. [IC12] N. Fanizzi, **C. d'Amato**, F. Esposito. Towards the Induction of Terminological Decision Trees. *In S.Y. Shin et al. (editors). Proc. of the ACM Int. Symp. On Applied Computing (SAC'10 - SWA Track)*. pp. 1423-1427. ACM. ISBN: 978-1-60558-639-7 (2010)
39. [IC13] **C. d'Amato**, N. Fanizzi, F. Esposito, T. Lukasiewicz. Inductive Query Answering and Concept Retrieval Exploiting Local Models. *Proceeeding of the IEEE International Conference on Intelligent Systems Design and Applications (ISDA 2009)*. pp. 1209 - 1214 IEEE Computer Society. ISBN: 978-0-7695-3872-3 (2009).
40. [IC14] **C. d'Amato**, N. Fanizzi, F. Esposito, T. Lukasiewicz. Approximate Classification of Semantically Annotated Web Resources Exploiting Pseudo-Metrics Induced by Local Models. *Proceeding of IEEE International Conference on Web Intelligence*. pp. 689-692. ISBN: 978-0-7695-3801-3 (2009)
41. [IC15] N. Fanizzi, **C. d'Amato**, F. Esposito. ReduCE: A Reduced Coulomb Energy Network Method for Approximate Classification. Proceeding of The Semantic Web: Research and Applications, 6th European Semantic Web Conference (ESWC 2009). Vol. 5554, pp. 323-337, Springer, LNCS. ISBN 978-3-642-02120-6 (2009).
42. [IC16] N. Fanizzi, **C. d'Amato**, F. Esposito. Fuzzy Clustering for Categorical Spaces: An Application to Semantic Knowledge Bases. *Foundations of Intelligent Systems, 18th International Symposium, ISMIS 2009, Proceedings*. Vol. 5722, pp. 161 - 170 LNCS, Springer (2009). ISBN 978-3-642-04124-2 (2009).
43. [IC17] N. Fanizzi, **C. d'Amato**, F. Esposito. Statistical Learning for Inductive Query Answering on OWL Ontologies. *Proceeding of the International Semantic Web Conference, (ISWC 2008)*. Vol. 5318 pp. 195-212, LNCS Springer. ISBN 978-3-540-88563-4 (2008).
44. [IC18] **C. d'Amato**, N. Fanizzi, T. Lukasiewicz. Tractable Reasoning with Bayesian Description Logics. *Proc. of the Inte. Conf. on Scalable Uncertainty Management (SUM 2008)* Vol. 5291 pp. 146-159, LNCS, Springer. ISBN 978-3-540-87992-3 (2008).
45. [IC19] **C. d'Amato**, S. Staab, N. Fanizzi. On the Influence of Description Logics Ontologies on Conceptual Similarity. *Proc of Knowledge Engineering: Practice and Patterns, Int. Conf. (EKAW 2008)*. Vol. 5268:48-63, LNCS- Springer. ISBN 978-3-540-87695-3 (2008).
46. [IC20] N. Fanizzi, **C. d'Amato**, F. Esposito. Learning with Kernels in Description Logics. *Proceeding of the International Conference on Inductive Logic Programming (ILP 2008)* Vol. 5194, pp. 210-225, LNCS, Springer. ISBN 978-3-540-85927-7 (2008).
47. [IC21] N. Fanizzi, **C. d'Amato**, F. Esposito. DL-FOIL: Concept Learning in Description Logics. *Proceeding of the International Conference on Inductive Logic Programming (ILP 2008)* Vol. 5194, pp. 107-121, LNCS, Springer. ISBN 978-3-540-85927-7 (2008).
48. [IC22] **C. d'Amato**, N. Fanizzi, F. Esposito. Non-parametric Statistical Learning Methods for Inductive Classifiers in Semantic Knowledge Bases. *Proc. of the IEEE International Conference on Semantic Computing (ICSC 2008)*. pp. 291-298, IEEE Computer Society (2008). ISBN: 978-0-7695-3279-0 (2008)
49. [IC23] N. Fanizzi, **C. d'Amato**, F. Esposito. Evolutionary Clustering in Description Logics: Controlling Concept Formation and Drift in Ontologies. *Proceeeding of the Int. Conference on*

Database and Expert Systems Applications (DEXA'08). Vol. 5181, pp. 808-821, LNCS, Springer. ISBN 978-3-540-85653-5 (2008)

50. [IC24] **C. d'Amato**, N. Fanizzi, F. Esposito. Query Answering and Ontology Population: an Inductive Approach. *Proceeding of the European Semantic Web Conference (ESWC 2008)* Vol. 5021, pp. 288-302, LNCS, Springer. ISBN 978-3-540-68233-2 (2008).
51. [IC25] N. Fanizzi, **C. d'Amato**, F. Esposito. Conceptual Clustering and its Application to Concept Drift and Novelty Detection. *Proc. of the European Semantic Web Conference (ESWC 2008)* Vol. 5021, pp. 318-332, LNCS, Springer. ISBN 978-3-540-68233-2 (2008)
52. [IC26] **C. d'Amato**, N. Fanizzi, F. Esposito. Classification and Retrieval through Semantic Kernels. *Proceeding of the International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2008 - SWEA Track)*. Vol. 5179, pp. 252-259, LNCS, Springer. ISBN 978-3-540-85566-8 (2008)
53. [IC27] **C. d'Amato**, N. Fanizzi, F. Esposito. Distance-based Classification in OWL Ontologies. *Proceeding of the International Conference on Knowledge-Based and Intelligent Information & Engineering Systems, (KES 2008 - AKS Track)*. Vol. 5178, pp. 656-661, LNCS, Springer. ISBN 978-3-540-85564-4 (2008).
54. [IC28] N. Fanizzi, **C. d'Amato**, F. Esposito. A Multi-Relational Hierarchical Clustering Method for DATALOG Knowledge Bases. *Proceeding of the International Symposium on Methodologies for Intelligent Systems (ISMIS'08)*. Vol. 4994, pp. 137-142, LNCS, Springer. ISBN 978-3-540-68122-9 (2008).
55. [IC29] N. Fanizzi, **C. d'Amato**, F. Esposito. Randomized Metric Induction and Evolutionary Conceptual Clustering for Semantic Knowledge Bases. *Proceeding of ACM 16th Conf. on Information and Knowledge Management (CIKM'07)*. M.J. Silva et al. (Eds.) pp. 56 – 60. ACM. ISBN: 978-1-59593-803-9 (2007).
56. [IC30] N. Fanizzi, **C. d'Amato**, F. Esposito. Evolutionary Conceptual Clustering of Semantically Annotated Resources. *Proc. of the IEEE Int. Conf. on Semantic Computing, (ICSC 2007)*. pp. 783 – 790. IEEE Computer Society. ISBN 978-0-7695-2997-4 (2007)
57. [IC31] N. Fanizzi, **C. d'Amato**. Inductive Concept Retrieval and Query Answering with Semantic Knowledge Bases through Kernel Methods. *In proceeding of the International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES 2007).* Springer, LNCS. Vol. 4692, pp. 148 – 155. ISBN 978-3-540-74817-5 (2007)
58. [IC32] N. Fanizzi, **C. d'Amato**, F. Esposito. A Hierarchical Clustering Method for Semantic Knowledge Bases. *In proceeding of the International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES 2007).* Springer, LNCS. Vol. 4694, pp. 653 - 660. ISBN 978-3-540-74817-5 (2007)
59. [IC33] **C. d'Amato**, N. Fanizzi, F. Esposito. Induction of Optimal Semantic Semi-distances for Clausal Knowledge Bases. *Proc. of the Int. Conf. on Inductive Logic Programming (ILP 2007)*. Springer, Vol. 4894, Series LNCS/LNAI. ISBN 978-3-540-78468-5 (2007)
60. [IC34] N. Fanizzi, **C. d'Amato**, F. Esposito. Instance Based Retrieval by Analogy. *Proceedings of the 2007 ACM symposium on Applied computing (SAC 2007) SDRC Track.* ACM Publisher, pp. 1398 – 1402, ISBN 1-59593-480-4 (2007).
61. [IC35] **C. d'Amato**, N. Fanizzi. Lazy Learning from Terminological Knowledge Bases. *In F. Esposito et al. (Eds.) Proc. of the Int. Symposium on Methodologies for Intelligent Systems*. Springer, LNCS, Vol. 4203,. pp. 570-579, ISBN 978-3-540-45764-0 (2006)
62. [IC36] N. Fanizzi, **C. d'Amato**. A Declarative Kernel for ALC Concept Descriptions. *In F. Esposito et al. (Eds.) Proc. of the Int. Symposium on Methodologies for Intelligent Systems*. Springer, LNCS, Vol. 4203,. pp. 322-331, ISBN 978-3-540-45764-0 (2006)
63. [IC37] **C. d'Amato**, N. Fanizzi, F. Esposito. A Dissimilarity Measure for ALC Concept Descriptions. *Proceedings of the ACM symposium on Applied computing (SAC 2006).* ACM press, pp. 1695-1699, ISBN 1-59593-108-2 (2006).
64. [IC38] A. Appice **C. d'Amato**, F. Esposito, D. Malerba. Classification of Symbolic Objects: the K-Nearest Neighbour Method. *Proceedings of the International Conference on Mathematical Method for Learning, pp. 23-26* (2004).

Edited Works

1. **Claudia d'Amato**, Jeff Z. Pan: Proceedings of the Doctoral Consortium at ISWC 2023 co-located with 22nd Int. Sem. Web Conference (ISWC 2023), Athens, Greece, Nov., 2023. CEUR Workshop Proceedings Vol. 3678, CEUR-WS.org 2024, ISSN 1613-0073 (2024)
2. Ulrike Sattler, Aidan Hogan, C. Maria Keet, Valentina Presutti, João Paulo A. Almeida, Hideaki Takeda, Pierre Monnin, Giuseppe Pirrò, **Claudia d'Amato**: The Semantic Web - ISWC 2022 - 21st International Semantic Web Conference, Virtual Event, October 23-27, 2022, Proceedings. LNCS 13489, Springer 2022, ISBN 978-3-031-19432-0 (2022)
3. Ruben Verborgh, Anastasia Dimou, Aidan Hogan, **Claudia d'Amato**, Ilaria Tiddi, Arne Bröring, Simon Maier, Femke Ongenae, Riccardo Tommasini, Mehwish Alam: The Semantic Web: ESWC 2021 Satellite Events - Virtual Event, June 6-10, 2021, Revised Selected Papers. Lecture Notes in Computer Science 12739, Springer 2021, ISBN 978-3-030-80417-6
4. **Claudia d'Amato**, Lalana Kagal: Proceedings of the Journal Track co-located with the 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26, 2019. CEUR Workshop Proceedings 2576, CEUR-WS.org 2020, ISSN 1613-0073
5. Jeff Z. Pan, Valentina A. M. Tamma, **Claudia d'Amato**, Krzysztof Janowicz, Bo Fu, Axel Polleres, Oshani Seneviratne, Lalana Kagal: The Semantic Web - ISWC 2020 - 19th International Semantic Web Conference, Athens, Greece, November 2-6, 2020, Proceedings, Part I. Lecture Notes in Computer Science 12506, Springer 2020, ISBN 978-3-030-62418-7
6. Jeff Z. Pan, Valentina A. M. Tamma, **Claudia d'Amato**, Krzysztof Janowicz, Bo Fu, Axel Polleres, Oshani Seneviratne, Lalana Kagal: The Semantic Web - ISWC 2020 - 19th International Semantic Web Conference, Athens, Greece, November 2-6, 2020, Proceedings, Part II. Lecture Notes in Computer Science 12507, Springer 2020, ISBN 978-3-030-62465-1
7. **Claudia d'Amato**, Martin Theobald. Reasoning Web. Learning, Uncertainty, Streaming, and Scalability - 14th Intern. Summer School 2018, Luxembourg, September 22-26, 2018, Tutorial Lectures. Lecture Notes in Computer Science 11078, Springer 2018, ISBN 978-3-030-00337-1
8. **Claudia d'Amato**, Miriam Fernández, Valentina A. M. Tamma, Freddy Lécué, Philippe Cudré-Mauroux, Juan F. Sequeda, Christoph Lange, Jeff Heflin: The Semantic Web - ISWC 2017 - 16th International Semantic Web Conference, Vienna, Austria, October 21-25, 2017, Proceedings, Part I. Lecture Notes in Computer Science 10587, Springer 2017, ISBN 978-3-319-68287-7
9. **Claudia d'Amato**, Miriam Fernández, Valentina A. M. Tamma, Freddy Lécué, Philippe Cudré-Mauroux, Juan F. Sequeda, Christoph Lange, Jeff Heflin: The Semantic Web - ISWC 2017 - 16th International Semantic Web Conference, Vienna, Austria, October 21-25, 2017, Proceedings, Part II. Lecture Notes in Computer Science 10588, Springer 2017, ISBN 978-3-319-68203-7
10. Anna Lisa Gentile, Ziqi Zhang, **Claudia d'Amato**, Heiko Paulheim: Proceedings of the Fourth International Workshop on Linked Data for Information Extraction (LD4IE2016) co-located with the 15th International Semantic Web Conference (ISWC 2016), CEUR Workshop Proceedings Vol. (to appear), CEUR-WS.org. ISSN 1613-0073 (2016)
11. Fernando Bobillo, Rommel N. Carvalho, Davide Ceolin, Paulo Cesar G. da Costa, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor P. Martin, Matthias Nickles, Michael Pool: Proceedings of the 12th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2016) co-located with the 15th International Semantic Web Conference (ISWC 2016), CEUR Workshop Proc. Vol. 1665, CEUR-WS.org ISSN 1613-0073 (2015)
12. Anna Lisa Gentile, Ziqi Zhang, **Claudia d'Amato**, Heiko Paulheim: Proceedings of the Third International Workshop on Linked Data for Information Extraction (LD4IE2015) co-located with the 14th International Semantic Web Conference (ISWC 2015), CEUR Workshop Proceedings Vol. 1467, CEUR-WS.org. ISSN 1613-0073 (2015)
13. **Claudia d'Amato**, Freddy Lécué, Raghava Mutharaju, Tom Narock, Fabian Wirth: Proceedings of the 1st International Diversity++ Workshop co-located with the 14th International Semantic Web Conference (ISWC 2015), CEUR Workshop Proceedings Vol. 1501, CEUR-WS.org ISSN 1613-0073 (2015)
14. Fernando Bobillo, Rommel N. Carvalho, Davide Ceolin, Paulo Cesar G. da Costa, **Claudia**

d'Amato, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor P. Martin, Matthias Nickles, Michael Pool: Proceedings of the 11th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2015) co-located with the 14th International Semantic Web Conference (ISWC 2015), CEUR Workshop Proc. Vol. 1479, CEUR-WS.org ISSN 1613-0073 (2015)

15. Fabien Gandon, Marta Sabou, Harald Sack, **Claudia d'Amato**, Philippe Cudré-Mauroux, Antoine Zimmermann (Eds.): *The Semantic Web. Latest Advances and New Domains* - 12th European Semantic Web Conference, ESWC 2015, Portoroz, Slovenia, May 31 - June 4, 2015. Proceedings. LNCS 9088, Springer. ISBN 978-3-319-18817-1 (2015)
16. Fernando Bobillo, Rommel N. Carvalho, Paulo Cesar G. da Costa, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Matthias Nickles, Michael Pool (Eds.): Uncertainty Reasoning for the Semantic Web III - ISWC International Workshops, URSW 2011-2013, Revised Selected Papers. Vol. 8816, LNCS Springer. ISBN 978-3-319-13412-3 (2014)
17. Anna Lisa Gentile, Ziqi Zhang, **Claudia d'Amato**, Heiko Paulheim (Eds.): Proceedings of the Second International Workshop on Linked Data for Information Extraction (LD4IE 2014) co-located with the 13th International Semantic Web Conference (ISWC 2014). CEUR Workshop Proc. Vol. 1267, CEUR-WS.org. ISSN 1613-0073 (2014)
18. Fernando Bobillo, Rommel N. Carvalho, Davide Ceolin, Paulo Cesar G. da Costa, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor P. Martin, Matthias Nickles, Michael Pool, Tom De Nies, Olaf Hartig, Paul T. Groth, Stephen Marsh (Eds.): Proc. of the 10th Int. Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2014) co-located with the 13th Int. Sem. Web Conference (ISWC 2014). CEUR Workshop Proceedings Vol. 1259, CEUR-WS.org. ISSN 1613-0073 (2014)
19. Valentina Presutti, **Claudia d'Amato**, Fabien Gadon, Mathieu d'Aquin, Steffen Staab, Anna Tordai (Editors). The 11th International Conference, ESWC 2014, Anissaras, Crete, Greece, May 25-29, 2014. Proceedings. LNCS Springer. ISBN: 978-3-319-07442-9 (2014)
20. **Claudia d'Amato**, Nicola Fanizzi, Marko Grobelnik**,** Agnieszka Lawrynowicz (Editors). Special Issue on *Inductive Reasoning and Machine Learning for the Semantic Web* in the International Semantic Web Journal. Vol.5(1) pp. 3-4. IOS Press. ISSN: 1570-0844 (2014)
21. Fernando Bobillo, Paulo C. G. da Costa, Rommel Carvalho, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor Martin, Matthias Nickles and Michael Pool (ed.) Proc. Int. Workshop on Uncertainty Reasoning for the Sem. Web (URSW 2013). CEUR Workshop Proc. Vol-1073. ISSN 1613-0073 (2013)
22. Anna Lisa Gentile, Ziqi Zhang, **Claudia d'Amato**, Heiko Paulheim (Editors). Proceedings of the First International Workshop on Linked Data for Information Extraction (LD4IE 2013) co-located with the 12th International Semantic Web Conference (ISWC 2013). Vol-1057. CEUR Workshop Proceeding, ISSN 1613-0073 (2013)
23. Petr Berka, **Claudia d'Amato**, Vojtěch Svátek, Krzysztof Wecel. Proceedings of the First International Workshop on Data Mining on Linked Data Workshop with Linked Data Mining Challenge (DMoLD 2013) co-located with the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD 2013). Vol-1082. CEUR Workshop Proceeding. ISSN 1613-0073 (2013)
24. Paulo CG Costa, **Claudia d'Amato**, Nicola Fanizzi, Kathy Laskey, Ken Laskey, Thomas Lukasiewicz, Matthias Nickles, Mike Pool (Editors). *Uncertainty Reasoning for the Semantic Web II*. International Workshops URSW 2008-2010 Held at ISWC and UniDL 2010 Held at FLoC, Revised Selected Papers. Vol. 7123 LNCS/LNAI series, Springer. ISBN: 978-3-642-35974-3 (2013)
25. Stefan Brüggemann, **Claudia d'Amato** (Ed.) *Collaboration and the Semantic Web: Social Networks, Knowledge Networks and Knowledge Resources.* IGI Global. DOI:10.4018/978-1-4666-0894-8 (2012)
26. Abraham Bernstein, **Claudia d'Amato**, Volker Tresp (Editors). Special Issue on *Induction on the Semantic Web* in the International Journal on Semantic Web and Information Systems. Vol. 7(2). ISSN: 1552-6283. (2011)

27. Axel Polleres, **Claudia d'Amato**, Marcelo Arenas, Siegfried Handschuh, Paula Kroner, Sascha Ossowski, Peter F. Patel-Schneider: Reasoning Web. Semantic Technologies for the Web of Data - 7th International Summer School 2011, Galway, Ireland, August 23-27, 2011, Tutorial Lectures. LNCS Vol. 6848. Springer ISBN: 978-3-642-23031-8 (2011).
28. Fernando Bobillo, Paulo C. G. da Costa, Rommel Carvalho, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor Martin, Matthias Nickles and Michael Pool (editors) Proc. of Int. Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2011). Vol-778. CEUR Workshop Proceedings. CEUR. ISSN 1613-0073 (2011)
29. **Claudia d'Amato**, Nicola Fanizzi, Blaz Fortuna, Agnieszka Lawrynowicz and Vojtech Svátek (editors). Proceeding of the 3rd ESWC International Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLes 2011).
30. Fernando Bobillo, Paulo C. G. da Costa, Rommel Carvalho, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor Martin, Matthias Nickles and Michael Pool (editors) Proc. Int. Workshop on Uncertainty Reasoning for the Sem. Web (URSW 2010). Vol-654. CEUR Workshop Proc. ISSN 1613-0073 (2010)
31. **Claudia d'Amato**, Nicola Fanizzi, Marko Grobelnik, Agnieszka Lawrynowicz and Vojtech Svátek (editors) Proc. of the ESWC Int. Ws. on Inductive Reasoning and Machine Learning on the Sem. Web (IRMLes 2010). Vol. 611 of CEUR Work. Proc. ISSN 1613-0073 (2010)
32. Fernando Bobillo, Paulo C. G. da Costa, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor Martin, Matthias Nickles, Michael Pool, and Pavel Smrz (editors) Proceedings of the 5th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2009). Volume 527 of CEUR Workshop Proceeding, CEUR-WS.org. ISSN 1613-0073 (2009)
33. **Claudia d'Amato**, Nicola Fanizzi, Marko Grobelnik, Agnieszka Lawrynowicz and Vojtech Svátek (editors) Proceeding of the 1st ESWC International Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLes 2009). Vol. 474 CEUR Workshop Proceeding, CEUR-WS.org, 2009. ISSN 1613-0073 (2009)
34. Paulo Cesar G. da Costa, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Matthias Nickles, and Michael Pool (editors) Uncertainty Reasoning for the Sem. Web I Vol. 5327. LNCS, Springer. ISBN 978-3-540-89764-4 (2008)
35. Fernando Bobillo, Paulo C. G. da Costa, **Claudia d'Amato**, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Trevor Martin, Matthias Nickles, Michael Pool, and Pavel Smrz (editors) Proc. of the 4th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2008), Karlsruhe, Germany, October 2008. Volume 423 of CEUR Workshop Proceeding, CEUR-WS.org. ISSN 1613-0073 (2008) .
36. Fernando Bobillo, Paulo C. G. da Costa, **Claudia d'Amato**, Nicola Fanizzi, Francis Fung, Thomas Lukasiewicz, Trevor Martin, Matthias Nickles, Yun Peng, Michael Pool, Pavel Smrz, and Peter Vojtas (editors) Proc. of the ISWC Workshop on Uncertainty Reasoning for the Sem. Web (URSW 2007). Vol. 327 CEUR Workshop Proc. ISSN 1613-0073 (2008).

Chapters in International Collections and Archives

1. **Claudia d'Amato.** On the Need of Learning Disjointness Axioms for Knowledge Graph Refinement and for Making Knowledge Graph Embedding Methods more Robust. In Dagstuhl Reports, Volume 13, Issue 10, Schloss Dagstuhl – Leibniz-Zentrum für Informatik. DOI: 10.4230/DagRep.13.10 (2024)
2. Christian Riefolo, Nicola Fanizzi, **Claudia d'Amato**. Simple and Interpretable Probabilistic Classifiers for Knowledge Graphs. DOI: 10.48550/arXiv.2407.07045 (2024)
3. Aidan Hogan, Eva Blomqvist, Michael Cochez, **Claudia d'Amato**, Gerard de Melo, Claudio Gutiérrez, José Emilio Labra Gayo, Sabrina Kirrane, Sebastian Neumaier, Axel Polleres, Roberto Navigli, Axel-Cyrille Ngonga Ngomo, Sabbir M. Rashid, Anisa Rula, Lukas Schmelzeisen, Juan F. Sequeda, Steffen Staab, Antoine Zimmermann: Knowledge Graphs. CoRR abs/2003.02320 (2020)

4. Nacira Abbas, Kholoud Alghamdi, Mortaza Alinam, Francesca Alloatti, Glenda C. M. Amaral, **Claudia d'Amato** et al. Knowledge Graphs Evolution and Preservation - A Technical Report from ISWS 2019. CoRR abs/2012.11936 (2020)
5. Tayeb Abderrahmani Ghor, Esha Agrawal, Mehwish Alam, Omar Alqawasmeh, **Claudia d'Amato** et al. Logic and learning Linked Open Data Validity - A Technical Report from ISWS 2018. CoRR abs/1903.12554 (2019)
6. **Claudia d'Amato.** Logic and learning - Can we provide Explanations in the current Knowledge Lake?. Report from Dagstuhl Seminar 18371 - Knowledge Graphs: New Directions for Knowledge Representation on the Semantic Web. DOI: 10.4230/DagRep.8.9.1 (2018)
7. **Claudia d'Amato**, Sabrina Kirrane, Piero Andrea Bonatti, Sebastian Rudolph, Markus Krötzsch, Marieke van Erp, Antoine Zimmermann. Foundations. Report from Dagstuhl Seminar 18371 - Knowledge Graphs: New Directions for Knowledge Representation on the Semantic Web. DOI: 10.4230/DagRep.8.9.1 (2018)
8. **Claudia d'Amato**, Francesco Marcelloni, Rudi Studer. Journal Track Chairs' Welcome & Organization. WWW (Companion Volume) 2018: 443-445. ACM (2018)

International Workshops

1. **C. d'Amato**, F. Benedetti, N. Fanizzi. Efficient Explanation of Predictions on DL Knowledge Graphs through Enhanced Similarity Search. In: Proceedings of the 36th International Workshop on Description Logics (DL 2023) co-located with the 20th International Conference on Principles of Knowledge Representation and Reasoning and the 21st International Workshop on Non-Monotonic Reasoning (KR 2023 and NMR 2023). CEUR Workshop Proceedings Vo. 3515. CEUR-WS.org. ISSN: 1613-0073 (2023)
2. R. Barile, **C. d'Amato**, N. Di Mauro, S. Ferilli, N. Lomonte: Argumentation ranking semantics as a feature for classification – On automatic evaluation of argumentative essays. Proceedings of the 6th International Workshop on Advances In Argumentation In Artificial Intelligence (AI3 2022). CEUR Workshop Proceedings. CEUR-WS.org. (2022)**C. d'Amato**: Empowering Knowledge Bases: a Machine Learning Perspective. Proceedings of the 34th International Workshop on Description Logics (DL 2021). CEUR Workshop Proceedings, Vol. 2954. CEUR-WS.org. ISSN: 1613-0073 (2021)
3. G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito. Induction of Terminological Cluster Trees. *Proc. of the Int. Workshop on Uncertainty Reasoning for the Semantic Web. (URSW 2016)* Vol. 1665, pp. 49 - 60. CEUR Workshop Proc. CEUR-WS.org. ISSN: 1613-0073 (2016).
4. G. Rizzo, **C. d'Amato**, N. Fanizzi, F. Esposito. Inducing Predictive Clustering Trees for Datatype Properties Values. In Proceedings of the International workshop on Semantic Machine Learning (SML 2016) co-located with the 25th International Joint Conference on Artificial Intelligence (IJCAI 2016). (2016)
5. P. Minervini, **C. d'Amato**, N. Fanizzi., F. Esposito. Efficient Learning of Entity and Predicate Embeddings for Link Prediction in Knowledge Graphs. *Proc. of the Int. Workshop on Uncertainty Reasoning for the Semantic Web. (URSW 2015)* Vol. 1479, pp. 26 - 37. CEUR Workshop Proc. CEUR-WS.org. ISSN: 1613-0073 (2015).
6. P. Minervini, **C. d'Amato**, N. Fanizzi. V. Tresp. *Learning to Propagate Knowledge in Web Ontologies*. *Proc. of the Int. Workshop on Uncertainty Reasoning for the Semantic Web. (URSW 2014)* Vol. 1259, pp. 13 - 24. CEUR Workshop Proc. ISSN: 1613-0073 (2014).
7. [IW001] C.M. Keet, **C. d'Amato**, Z. Khan, A. Lawrynowicz, Exploring Reasoning with the DMOP Ontology. *In Proc. of the Workshop on Ontology Reasoner Evaluation (ORE'14).* Vol. 1207, 64-70. CEUR Workshop Proceedings. ISSN: 1613-0073 (2014)
8. [IW01] C.M. Keet, A. Lawrynowicz, **C. d'Amato**, M. Hilario. Modeling Issues and Choices in the Data Mining OPtimization Ontology. *Proc. of OWL: Experiences and Directions Workshop 2013*. Vol. 1080 CEUR Workshop Proceedings. CEUR. ISSN: 1613-0073 (2013).
9. [IW0] P. Minervini, **C. d'Amato**, N. Fanizzi. *A Graph Regularization Approach to Transductive Class-Membership Learning*. Proc. of the Int. Workshop on Uncertainty Reasoning for the Semantic

Web. Vol. 900, pp. 39-50, CEUR. ISSN: 1613-0073 (2012).

10. [IW00] **C. d'Amato**, V. Bryl, L. Serafini. *Data-Driven Logical Reasoning*. In: Proceedings of the 8th International Workshop on Uncertainty Reasoning for the Semantic Web. Vol. 900, pp. 51-62, CEUR Workshop Proceedings. ISSN: 1613-0073 (2012).
11. [IW1] P. Minervini, **C. d'Amato**, F. Fanizzi. *Learning Terminological Naive Bayesian Classifiers under Different Assumptions on Missing Knowledge.* Proceedings of the International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2011) co-located at ISWC'11. Vol. 778. CEUR Workshop Proc. CEUR. ISSN: 1613-0073 (2011)
12. [IW2] T. Scharrenbach, **C. d'Amato**, N. Fanizzi, R. Grütter, B. Waldvogel, A. Bernstein. *Default Logics for Plausible Reasoning with Controversial Axioms*. Proc. of the Int. Workshop on Uncertainty Reasoning for the Sem. Web. Vol. 654, pp. 105 -108. CEUR. ISSN: 1613-0073 (2010)
13. [IW3] T. Scharrenbach, **C. d'Amato**, N. Fanizzi, R. Grütter, B. Waldvogel, A. Bernstein. *Unsupervised Conflict-Free Ontology Evolution Without Removing Axioms*. Proceedings of the 4th International Workshop on Ontology Dynamics (IWOD 2010) co-located at ISWC'10. Vol. 651. CEUR Workshop Proc. ISSN: 1613-0073 (2010)
14. [IW4] N. Fanizzi, **C. d'Amato**, F. Esposito. Uncertainty Reasoning through Similarity in Context. *In Proc. of the International Workshop on Automated Reasoning about Context and Ontology Evolution (ARCOE 2010)*. pp. 17-18. LISBON: Science Faculty. (2010).
15. [IW5] N. Fanizzi, **C. d'Amato**, F. Esposito. Structural Similarity in Expressive Description Logics: An Extended Family of Kernels for OWL. *Proceeding of the International Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS 2010)*. Vol. 611, pp. 6-17, Aachen: CEUR (2010). ISBN/ISSN: 1613-0073 (2010)
16. [IW6] **C. d'Amato**, N. Fanizzi, B. Fazzinga, G. Gottlob, T. Lukasiewicz. Combining Semantic Web Search with the Power of Inductive Reasoning. *Proceeding of the Workshop on Uncertainty Reasoning for the Semantic Web URSW 2009*. Vol. 527, pp. 15-26, CEUR Workshop Proceedings, CEUR-WS.org (2009). ISBN/ISSN: 1613-0073 (2009)
17. [IW7] N. Fanizzi, **C. d'Amato**, F. Esposito. Evidential Nearest-Neighbors Classification for Inductive ABox Reasoning. *Proceeding of the Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2009)*. Vol. 527, pp. 27-38, CEUR Workshop Proceedings, CEUR-WS.org. (2009). ISBN: 1613-0073 (2009).
18. [IW8] **C. d'Amato**, N. Fanizzi, F. Esposito. A Note on the Evaluation of Inductive Concept Classification Procedures. *Proceeding of the Int. Workshop on Semantic Web Applications and Perspectives (SWAP 2008)*. Vol. 426. CEUR-WS.org. ISBN/ISSN: 1613-0073 (2008)
19. [IW9] N. Fanizzi, **C. d'Amato**, F. Esposito, T. Lukasiewicz. Representing Uncertain Concepts in Rough Description Logics via Contextual Indiscernibility Relations. *Proceeding of the Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2008).* Vol. 5327. CEUR-WS.org (2008). ISBN/ISSN: 1613-0073 (2008)
20. N. Fanizzi, **C. d'Amato**, F. Esposito. Induction of Optimal Semi-distances for Individuals based on Feature Sets. Proceedings of the 2007 International Workshop on Description Logics. Vol. 250. CEUR-WS.org. ISSN 1613-0073 (2007).
21. [IW10] **C. d'Amato**, S. Staab, N. Fanizzi, F. Esposito. Efficient Discovery of Services specified in Description Logics Languages. *Proceeding of the Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web co-located at ISWC 2007*. In Di Noia et al. Eds. Vol. 243. CEUR. ISBN/ISSN: 1613-0073 (2007).
22. [IW11] N. Fanizzi, **C. d'Amato**, F. Esposito. Approximate Measures of Semantic Dissimilarity under Uncertainty. *Proceeding of the Workshop on Uncertainty Reasoning for the Semantic Web at ISWC 2007*. Vol. 327 CEUR-WS.org ISSN: 1613-0073 (2008)
23. [IW12] F. Esposito, N. Fanizzi, **C. d'Amato**. Conceptual Clustering Applied to Ontologies by means of Semantic Discernability. *Proc. of the Worksh. on Prior Conceptual Knowledge in Machine Learning and Knowledge Discovery (PriCKL'07) at ECML/PKDD*. (2007)
24. [IW13] N. Fanizzi, **C. d'Amato**, F. Esposito. Clustering Individuals in Ontologies: a Distance-based Evolutionary Approach. *Proceeeding of the 3rd Int. Workshop on Mining Complex Data (MCD'07)*

at ECML/PKDD (2007).

25. [IW14] **C. d'Amato**, N. Fanizzi, F. Esposito. Analogical Reasoning in Description Logics. Proceedings of the Second ISWC Workshop on Uncertainty Reasoning for the Semantic Web. CEUR Workshop Proceedings, ISSN 1613-0073 (2006).
26. [IW15] **C. d'Amato**, S. Staab. Modelling, Matching and Ranking Services Based on Constraint Hardness. Proc. of Advances in Semantics for Web services Workshop (at BPM). LNCS, Vol. 4103 pp. 471-482 Springer (2006). ISBN 3-540-38444-8 (2006)
27. [IW16] **C. d'Amato**, N. Fanizzi, F. Esposito. A Semantic Dissimilarity Measure for Concept Descriptions in Ontological Knowledge Bases. *Proc. of the 2nd Int. Workshop on Knowledge Discovery and Ontologies (at ECML/PKDD 2005)*, pp. 3-10. (2005).
28. [IW17] **C. d'Amato**, N. Fanizzi, F. Esposito. A Dissimilarity Measure for Concept Descriptions in Expressive Ontology Languages. Proc. Workshop Ontology Management: Searching, Selection, Ranking and Segmentation (at KCAP'05) pp. 9-16 (2005).
29. [IW18] A. Appice **C. d'Amato**, F. Esposito, D. Malerba. k-Nearest Neighbour Classification of Symbolic Objects. *In P. Brito and M. Noirhomme-Fraiture (Eds.) Proc. of the Workshop on Symbolic and Spatial Data Analysis: Mining Complex Data Structures at ECML/PKDD 2004*. pp. 19-30. (2004).

Posters

1. **C. d'Amato**, F. Esposito, N. Fanizzi, B. Fazzinga, G. Gottlob, T. Lukasiewicz. Inductive Reasoning and Semantic Web Search. SAC 2010 - SWA Track, 25th ACM International Symposium On Applied Computing (2010).
2. B. Taush, **C. d'Amato**, S. Staab, N. Fanizzi. Efficient Service Matchmaking using Tree-Structured Clustering 5th International Semantic Web Conference (ISWC) (2006).

National Conferences

1. P. Minervini, **C. d'Amato**, Nicola Fanizzi. Learning Terminological Bayesian Classifiers - A Comparison of Alternative Approaches to Dealing with Unknown Concept-Memberships. *In: F. A. Lisi. Proc. of the Italian Convention on Computational Logic (CILC 2012)*. Vol. 857, p. 191-205, CEUR workshop Proc. ISSN 1613-0073 (2012)
2. **C. d'Amato**, N. Fanizzi, F. Esposito, M. Carulli, A. Assab, G. Bux. SEMANTIC-PA: Una Piattaforma per la Gestione Semantica dei Contenuti per la Pubblica Amministrazione. *In Proc. of Congresso Annuale AICA su Ricerca ed impresa (AICA 2011).* (2011)
3. N. Fanizzi, **C. d'Amato**, F. Esposito. A Hierarchical Clustering Procedure for Semantically Annotated Resources. *Italian Association for Artificial Intelligence Congress Proc. (AI*IA'07)*. LNCS Springer, Vol. 4733, pp. 266-277, ISBN:978-3-540-74781-9 (2007).
4. [NC3] N. Fanizzi, **C. d'Amato**, F. Esposito. Instance-based Query Answering with Semantic Knowledge Bases. *Proc. of the Congress of Italian Assoc. for Artif. Intel. (AI*IA 2007)*. LNCS/LNAI Springer, Vol. 4733, pp. 254 -265, ISBN 978-3-540-74781-9 (2007).
5. [NW2] **C. d'Amato** Constraint hardness for modelling, matching and ranking Semantic Web services. *In Proceedings of the Italian Symposium on Advanced Database Systems (SEBD 2007)*. pp. 373 - 380. ISBN 978-88-902981-0-3 (2007).
6. [NW3] N. Fanizzi, **C. d'Amato**, F. Esposito. Approximate query answering and ranking for semantic knowledge bases. *In Proceedings of the Italian Symposium on Advanced Database Systems (SEBD 2007)*. pp. 124 - 135. ISBN 978-88-902981-0-3 (2007).
7. [NC4] N. Fanizzi, **C. d'Amato**. A Similarity Measure for the ALN Description Logic. *Proceedings of the Convegno Italiano di Logica Computazionale (CILC 2006)*. (2006)
8. [NC5] **C. d'Amato**, N. Fanizzi, F. Esposito. A semantic similarity measure for expressive Description Logics. *Proc. of Convegno Italiano di Logica Computaz. (CILC'05)*. (2005)
9. [NC6] N. Fanizzi, L. Iannone, **C. d'Amato**, I. Palmisano, G. Semeraro. Apprendimento di Ontologie nel Web Semantico. *Proc. of AICA Annual Congress Annuale on Ricerca ed impresa (AICA'04)*, pp. 609-620. (2004).

10. [NC7] **C. d'Amato**, D. Malerba, F. Esposito, M. Monopoli (2003). Extending the K-Nearest Neighbour classification algorithm to symbolic objects. *Proc. of Convegno Scientifico Intermedio SIS*, Giugno 2003, Univ. degli Studi di Napoli "Federico II". (2003)

National Workshops

1. [NW1] N. Fanizzi, **C. d'Amato**, F. Esposito. Semantic Nearest Neighbor Search in OWL Ontologies. *In Proceedings of the 4rd Italian Semantic Web Workshop (SWAP 2007)*. Vol. 314 CEUR workshop Proceeding. ISSN 1613-0073 (2007)
2. [NW4] **C. d'Amato**, N. Fanizzi, F. Esposito. Reasoning by Analogy in Description Logics through Instance-based Learning. *In Proceedings of the 3rd Italian Semantic Web Workshop (SWAP 2006)*. CEUR Workshop Proceedings, ISSN 1613-0073 (2006).
3. [NW5] **C. d'Amato**, N. Fanizzi, F. Esposito. A Dissimilarity Measure for the ALC Description Logic. *In Proceedings of the 2nd Italian Semantic Web Workshop (SWAP 2005)*. CEUR Workshop Proceedings, ISSN 1613-0073 (2005).

Bari, 16 Ottobre 2024

DATI PERSONALI

Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi del D.Lgs. del 10 agosto 2018, n. 101 e del GDPR (Regolamento UE 2016/679)"

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Bari, 16 Ottobre 2024

La Dichiarante

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