

Curriculum vitae et studiorum

Andrea Calí

Personal data

Full name Andrea Calí

Citizenship Italian; naturalised British (May 2018)

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Education

- *February 2003:* Doctoral degree (*Dottorato di Ricerca*) in Computer Engineering at the Università degli Studi di Roma “La Sapienza”, Italy; advisor Prof. Maurizio Lenzerini.
- *December 1999:* *Laurea* (Degree) in Electronic Engineering at the Università degli Studi di Roma “La Sapienza”, Italy; thesis supervisor Prof. Maurizio Lenzerini; rank 110/110 *Summa cum Laude*.
- *July 1993:* Scientific high school (*Liceo Scientifico*) diploma at the Liceo Scientifico Amedeo Avogadro, Roma, Italy; rank 60/60.
- *November 2012:* Postgraduate Certificate in Education (Higher Education) at University of London, Birkbeck College.

Other:

- *January 2015:* National Qualification (*Abilitazione Scientifica Nazionale*) of Full Professor (eligibility to Full Professor, *Professore di Prima Fascia*) in sectors (*settori scientifico-disciplinari*) ING-INF/05 and INF/01, Italian Ministry of Education, University and Research. Achieved on 19/01/2015.
- *November 2013:* Member of the Higher Education Academy, UK.
- *June 2000:* Qualification to the profession of Engineer, with a rank of 118/120.

Language skills

- *Italian:* Mother tongue.
- *English:* Fluent.
- *Spanish:* Fluent spoken, good written.
- *Portuguese:* Basic; good reading and listening skills.
- *Latin:* good written; good reading skills.

Professional Positions

Academic

- *April 2010–present*: Senior Lecturer (promoted from Lecturer in March 2015; effective from October 2015) at the Department of Computer Science and Information Systems, University of London, Birkbeck College, UK.
- *October 2015–present* Deputy Programme Director for the Foundation Degrees at the Department of Computer Science and Information Systems, University of London, Birkbeck College, UK.
- *April 2010–present* Associate Member (analogous to a long-term visiting position) of the Oxford-Man Institute of Quantitative Finance, University of Oxford, United Kingdom.
- *April 2010–present*: Member of the London Knowledge Lab, University of London, UK.
- *October 2010–present* Honorary Common Room Member (elected) at Keble College, University of Oxford, United Kingdom.
- *April 2010–December 2010*: Lecturer at the Department of Information Systems and Computing, Brunel University, UK.
- *April 2008–March 2010* Research Fellow at the Oxford-Man Institute of Quantitative Finance, University of Oxford, United Kingdom.
- *October 2007–March 2010*: Research Fellow¹ at the Computing Laboratory (now Department of Computer Science), University of Oxford, United Kingdom.
- *October 2007–September 2010* Research Associate at Keble College, University of Oxford, United Kingdom.
- *August 2004–September 2007*: *Ricercatore a tempo determinato*, equivalent to non-tenured Assistant Professor, at the Faculty of Computer Science of the Free University of Bozen-Bolzano, Italy.
- *February 2004–July 2004*: Research Assistant at the Faculty of Computer Science of the Free University of Bozen-Bolzano, Italy.
- *March 2003–January 2004*: Research Assistant at the Università degli Studi di Roma “La Sapienza”, Italy.
- *November 1999–February 2003*: Doctoral student (*Dottorato di Ricerca*) in Computer Engineering at the Università degli Studi di Roma “La Sapienza”, Italy.
- I was scientific consultant for the Università degli Studi di Roma “La Sapienza”, Italy for the following activities
 1. *February 2005–May 2005*: study and implementation of algorithms for matchmaking, in the context of recommendation systems for tourist events;
 2. *January 2003–January 2004*: national project *MAIS (Multichannel Adaptive information Systems)*;
 3. *May 2002–December 2002*: investigation about techniques for the integration of incomplete and inconsistent data sources;
 4. *June 2001–December 2001*: study of methods and design tools for modelling and reasoning on computer systems, for the project *SMO (System Management Ontology)* in cooperation with IBM–Tivoli, Italy.

¹I resigned from this project-funded position on 1st April 2008, but I maintained the affiliation, funded by the Oxford-Man Institute, to the Oxford University Computing Laboratory.

Industrial (selected)

- *December 2018–present*: Director and CEO at *Toorja Ltd.* The company has been providing consulting services in the areas of Artificial Intelligence and Data Science with applications to retail, intelligence and others. Clients include overseas technology startups.
- *July 2018–March 2020*: Research Scientist at *Relational AI*, a company based in the USA.
- *October 2014–November 2014*: Consultant for the Dept of Engineering of the Universidad del Desarrollo (Santiago, Chile) and Telefonica (Chile) on the creation of a Master programme in Data Science and on the start of the *Telefonica Centro I+D* (Research and Development Centre).
- *2012–2015*: Member of the Working Group on Financial Informatics, organised by the University of Maryland, Robert H. Smith School of Business. The group is focussed on Data Analytics for finance, including risk management and information integration for financial markets. For this activity I was invited to the *Workshop on Knowledge Representation and Information Management for Financial Risk Management*, funded by the National Science Foundation Workshop and , and held in Arlington, VA, U.S.A., on 21-22nd July, 2010, and on 19-20 July, 2012.
- *July 2004–November 2004*: Consultant for *Theorema S.r.l.*, Roma, Italy, for the design of a system to evaluate . My activity consisted in designing an application for evaluating financial investments on new railway lines for *RFI (Rete Ferroviaria Italiana)*, the Italian railway company.
- *February 2001–October 2001*: Consultant for *CM Sistemi*, Roma, Italy, designing a system for the integration of heterogeneous database.,

Other

- *January 2019–present*: co-founder and co-owner of D-Still Ltd, a company licensed for the production of high-quality spirits, registered in the UK.
- *April 2000–February 2001*: I served in the Italian Navy as First Class Sailor (*Marinaio di Prima Classe*), in the Coast Guard at Fiumicino (*Capitaneria di Porto di Roma*).

Selected Publications

Edited books

1. Andrea Tagarelli, Ester Zumpano, Aida Kamisalic Latific, Andrea Calì: *Proceedings of the First International Workshop "CAiSE for Legal Documents (COUrT 2020)*, co-located with the 32nd International Conference on Advanced Information Systems Engineering (CAiSE 2020), Grenoble, France, June 9, 2020. CEUR Workshop Proceedings 2690, CEUR-WS.org.
2. Andrea Calì, Peter T. Wood, Nigel J. Martin, Alexandra Poullovassilis: *Data Analytics – 31st British International Conference on Databases (BICOD 2017)*, London, UK, July 10-12, 2017, Proceedings. Lecture Notes in Computer Science 10365, Springer, ISBN 978-3-319-60794-8.
3. Andrea Calì, Dorian Gorgan, Martín Ugarte: *Semantic Keyword-Based Search on Structured Data Sources - COST Action IC1302 Second International KEYSTONE Conference (IKC 2016)*, Cluj-Napoca, Romania, September 8-9, 2016, Revised Selected Papers. Lecture Notes in Computer Science 10151, 2017, ISBN 978-3-319-53639-2.
4. Andrea Calì, Maria-Esther Vidal: *Proceedings of the 9th Alberto Mendelzon International Workshop on Foundations of Data Management*, Lima, Peru, May 6-8, 2015. CEUR Workshop Proceedings 1378, <http://CEUR-WS.org>.
5. Andrea Calì, Umberto Straccia: *Scalable Uncertainty Management - 8th International Conference (SUM 2014)*, Oxford, UK, September 15-17, 2014. Lecture Notes in Computer Science 8720, Springer, ISBN 978-3-319-11507-8.

6. Andrea Calì, Diego Calvanese, Enrico Franconi, Maurizio Lenzerini, Letizia Tanca: *Proceedings of the Thirteenth Italian Symposium on Advanced Database Systems, SEBD 2005*, Brixen-Bressanone, Italy, June 19-22, 2005.

Book chapters

7. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz: *Datalog Extension for Tractable Query Answering over Ontologies*, in Roberto De Virgilio, Fausto Giunchiglia, Letizia Tanca (Eds.): *Semantic Web Information Management*, Springer, 2010.
8. Marzia Adorni et al., *Reference Architecture and Framework*, in Barbara Pernici (Ed.): *Mobile Information Systems*, Springer, 2006.
9. Riccardo Torlone et al., *Methods and Tools for the Development of Adaptive Applications*, in Barbara Pernici (Ed.): *Mobile Information Systems*, Springer, 2006.
10. Andrea Calì, Domenico Lembo, Riccardo Rosati, Maurizio Lenzerini: *Source integration in data warehousing*, in “Multidimensional databases”, IDEA Publishing Co., 2003.

International journals

12. Riccardo Frosini, Alexandra Poulouvasilis, Peter T. Wood, Andrea Calì: *Optimisation Techniques for Flexible SPARQL Queries*. ACM Transactions on the Web, 16(4): 16:1–16:44 (2022).
13. Riccardo Frosini, Andrea Calì, Alexandra Poulouvasilis, Peter T. Wood: *Flexible query processing for SPARQL*. Semantic Web 8(4): 533-563 (2017).
14. Andrea Calì, Georg Gottlob, Michael Kifer: *Taming the Infinite Chase: Query Answering under Expressive Relational Constraints*. Journal of Artificial Intelligence Research 48, pages 115-174, 2013.
15. Andrea Calì, Diego Calvanese, Maurizio Lenzerini: *Rewrite and Conquer: Dealing with Integrity Constraints in Data Integration*. Seminal Contributions to Information Systems Engineering 2013, pages 353-359
16. Andrea Calì, Diego Calvanese, Maurizio Lenzerini: *Data Integration under Integrity Constraints*. Seminal Contributions to Information Systems Engineering 2013, pages 335-352.
17. Andrea Calì, Georg Gottlob, Andreas Pieris: *Towards more expressive ontology languages: The query answering problem*. Artif. Intell. 193, pages 87-128, 2012.
18. Andrea Calì, Georg Gottlob, Andreas Pieris: *Ontological Query Answering under Expressive Entity-Relationship Schemata*. Information Systems, 37(4), pages 320-335, 2012,.
19. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz: *A General Datalog-Based Framework for Tractable Query Answering over Ontologies*. Journal of Web Semantics, 14, pages 57-83, 2012.
20. Andrea Calì, Georg Gottlob, Andreas Pieris: *Advanced Processing for Ontological Queries*. Proc. of the of the VLDB Endowment (PVLDB), 3(1), 2010, pages 554-565.
21. Andrea Calì and Davide Martinenghi: *Querying Incomplete Data over Extended ER Schemata*. Theory and Practice of Logic Programming 10(3) pages 291–329.
22. Andrea Calì, Laks V. S. Lakshmanan, and Davide Martinenghi: *Selected papers from the Logic in Databases Workshop 2008*. Journal of Applied Logic, 8(2), pages 151–152, 2010.
23. Andrea Calì, Thomas Lukasiewicz, Livia Predoiu, and Heiner Stuckenschmidt: *Tightly Coupled Probabilistic Description Logic Programs for the Semantic Web*. Journal of Data Semantics, 12, pages 95–130, 2009.
24. Andrea Calì, Davide Martinenghi: *Dynamic Query Optimization under Access Limitations and Dependencies*. Journal of Universal Computer Science, 15(1), pages 33–62, 2009.

25. Andrea Calì, Domenico Lembo, Riccardo Rosati: *A Comprehensive Semantic Framework for Data Integration Systems*, in Journal of Applied Logic, special issue on Logic-Based Methods for Information Integration, 3(2), pages 208–238, June 2005.
26. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini: *Data integration under integrity constraints*, Information Systems, Information Systems 29(2), pages 147–163, April 2004.
27. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini: *On the role of integrity constraints in data integration*, Bulletin of the IEEE Computer Society Technical Committee on Data Engineering, September 2002.

International conferences and workshops

26. Alejandro Grez, Andrea Calì, Martín Ugarte: *A Simple Data Structure for Optimal Two-Sided 2D Orthogonal Range Queries*. Proc. of 13th International Conference on Flexible Query Answering Systems (FQAS 2019), pages 43-47.
27. Mirko Michele Dimartino, Andrea Calì, Alexandra Poulouvasilis, Peter T. Wood: *Efficient Ontological Query Answering by Rewriting into Graph Queries*. Proc. of 13th International Conference on Flexible Query Answering Systems (FQAS 2019), pages 75-84.
28. Andrea Calì, Martín Ugarte: *On the Complexity of Query Answering under Access Limitations: A Computational Formalism*. Proc. of the 12th Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2018), CEUR Electronic Proceedings.
29. Andrea Calì, Davide Martinenghi, Igor Razgon, Martín Ugarte: *Querying the Deep Web: Back to the Foundations*. Proc. of the 11th Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2017), CEUR Electronic Proceedings.
30. Andrea Calì: *Ontology Querying: Datalog Strikes Back*. Reasoning Web 2017, pages 64-67.
31. Andrea Calì: *Querying and searching the Deep Web*. Proc. of the 7th International Conference on Web Intelligence, Mining and Semantics (WIMS 2017), 3:1.
32. Vito Walter Anelli, Vito Bellini, Andrea Calì, Giuseppe De Santis, Tommaso Di Noia, Eugenio Di Sciascio: *Querying deep web data sources as linked data*. Proc. of the 7th International Conference on Web Intelligence, Mining and Semantics (WIMS 2017), 32:1-32:7.
33. Andrea Calì, Umberto Straccia: *Integration of Deep Web sources: a Distributed Information Retrieval approach*. Proc. of the 7th International Conference on Web Intelligence, Mining and Semantics (WIMS 2017), 33:1-33:4.
34. Ana Meštrović, Andrea Calì: *An Ontology-Based Approach to Information Retrieval*. International KEYSTONE Conference 2016, pages 150-156.
35. Leopoldo E. Bertossi, Andrea Calì, Mostafa Milani: *Query Answering on Expressive Datalog+/- Ontologies*. Proc. of the 10th Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2016), CEUR Electronic Proceedings.
36. Andrea Calì, Davide Martinenghi, Riccardo Torlone: *Keyword Queries over the Deep Web*. Proc. of the 35th International Conference on Conceptual Modeling (ER 2016), pages 260–268.
37. Vito Walter Anelli, Andrea Calì, Tommaso Di Noia, Matteo Palmonari, Azzurra Ragone: *Exposing Open Street Map in the Linked Data Cloud*. Trends in Applied Knowledge-Based Systems and Data Science: 29th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE 2016), pages 344-355.
38. Mirko Michele Dimartino, Andrea Calì, Alexandra Poulouvasilis, Peter T. Wood: *Query Rewriting under Linear EL Knowledge Bases*. RR 2016: 61-76

39. Mostafa Milani, Andrea Calì, Leopoldo E. Bertossi: *A Hybrid Approach to Query Answering Under Expressive Datalog[±]*. Proc. of the 10th International Conference on Web Reasoning and Rule Systems (RR 2016), pages 144–158.
40. Andrea Calì, Thomas W. Lynch, Davide Martinenghi, Riccardo Torlone: *Processing Keyword Queries Under Access Limitations*. Proc. of the 1st International KEYSTONE Conference 2015 (KEYSTONE 2015), pages 30–35.
41. Andrea Calì, Davide Martinenghi, Riccardo Torlone: *Keyword Search in the Deep Web*. Proc. of the 9th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2015).
42. Mirko Michele Dimartino, Andrea Calì, Alexandra Poulovassilis, Peter T. Wood: *Implementing Peer-to-Peer Semantic Integration of Linked Data*. Proc. of the 30th British International Conference on Databases (BICOD 2015), pages 41–45.
43. Mirko Michele Dimartino, Andrea Calì, Alexandra Poulovassilis, Peter T. Wood: *Peer-to-Peer Semantic Integration of Linked Data*. EDBT/ICDT Workshops 2015, pages 213–220.
44. Andrea Calì, Riccardo Frosini, Alexandra Poulovassilis, Peter T. Wood: *Flexible Querying for SPARQL*. Proc. of ODBASE 2014, OTM Conferences 2014: 473–490.
45. Andrea Calì, Roberto De Virgilio, Tommaso Di Noia, Luca Menichetti, Roberto Mirizzi, Luca Nardini, Vito Claudio Ostuni, Fabrizio Rebecca and Marco Ungania: *Semantic Search in Real-FoodTrade*. Proc. of the 8th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2014).
46. Andrea Calì, Georg Gottlob, Andreas Pieris: *Tractable Reasoning in Description Logics with Functionality Constraints*. In Search of Elegance in the Theory and Practice of Computation 2013 — Essays Dedicated to Peter Buneman, pages 174–192.
47. Andrea Calì, Stefano Capuzzi, Mirko Michele Dimartino, Riccardo Frosini: *Recommendation of Text Tags in Social Applications Using Linked Data*. 2nd International Workshop on Data Management in the Social Semantic Web (DMSSW 2013), pages 187–191.
48. Andrea Calì, Stefano Capuzzi, Mirko Michele Dimartino, Riccardo Frosini: *Recommendation of text tags using linked data*. 3RD International Workshop on Semantic Search over the Web, (SSW 2013).
49. Andrea Calì, Diego Calvanese, Maurizio Lenzerini: *Data Integration under Integrity Constraints*. Seminal Contributions to Information Systems Engineering — 25 years of CAISE, 2013, pages 335–352.
50. Andrea Calì, Diego Calvanese, Maurizio Lenzerini: *Rewrite and Conquer: Dealing with Integrity Constraints in Data Integration*. Seminal Contributions to Information Systems Engineering — 25 years of CAISE, 2013, pages 353–359.
51. Andrea Calì, Marco Console, Riccardo Frosini: *On Separability of Ontological Constraints*. Proc. of the 6th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2012), CEUR Electronic Proceedings, pages 48–61.
52. Andrea Calì, Georg Gottlob, Giorgio Orsi, Andreas Pieris: *On the Interaction of Existential Rules and Equality Constraints in Ontology Querying*. Correct Reasoning – Essays on Logic-Based AI in Honour of Vladimir Lifschitz, 2012, pages 117–133.
53. Andrea Calì, Georg Gottlob, Giorgio Orsi, Andreas Pieris: *Querying UML Class Diagrams*. Proc. of the 15th International Conference on Foundations of Software Science and Computational Structures (FoSSaCS 2012), pages 1–25.
54. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz, Andreas Pieris: *A logical toolbox for ontological reasoning*. SIGMOD Record 40(3), pages 5–14, 2011.
55. Andrea Calì, Georg Gottlob, Andreas Pieris: *Querying Conceptual Schemata with Expressive Equality Constraints*. Proc. of the 30th Conference on Conceptual Modelling (ER 2011), to appear.

56. Andrea Calì, Georg Gottlob, Andreas Pieris: *New Expressive Languages for Ontological Query Answering*. Proc. of the 25th AAAI Conference on Artificial Intelligence (AAAI 2011)
57. Maria Amalfi, Alessandro Artale, Andrea Calì, Alessandro Provetti: *Generating Preview Instances for the Face Validation of Entity-Relationship Schemata: The Acyclic Case*. Proc. of the 16th International Conference on Database Systems for Advanced Applications (DASFAA 2011), Part II, pages 225–234.
58. Andrea Calì, Andreas Pieris: *n Equality-Generating Dependencies in Ontology Querying - Preliminary Report*. Proc. of the 5th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2011), CEUR Electronic Proceedings.
59. Andrea Calì, Georg Gottlob, Andreas Pieris: *Query Answering under Non-Guarded Rules in Datalog[±]*. Proc. of the 4th International Conference on Web Reasoning and Rule Systems (RR 2010), pages 1–17.
60. Andrea Calì, Georg Gottlob, Andreas Pieris: *Query Rewriting under Non-Guarded Rules..* Proc. of the 5th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2010), CEUR Electronic Proceedings.
61. Andrea Calì, Georg Gottlob, Michael Kifer, Thomas Lukasiewicz, Andreas Pieris: *Ontological Reasoning with F-Logic Lite and its Extensions*. Proc. of the 24th AAAI Conference on Artificial Intelligence (AAAI 2010).
62. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz, Bruno Marnette, Andreas Pieris: *Datalog[±]: A family of logical knowledge representation and query languages for new applications (Keynote paper)*. Proc. of the 25th IEEE Annual Symposium on Logics in Computer Science (LICS 2010), pages 228–242.
63. Andrea Calì, Georg Gottlob, Andreas Pieris: *Tractable query answering over conceptual schemata*. Proc. of the 29th Conference on Conceptual Modelling (ER 2010), pages 175–190.
64. Andrea Calì, Davide Martinenghi: *Querying the Deep Web (Tutorial)*. Proc. of the 13th International Conference on Extending Database Technology (EDBT 2010).
65. Andrea Calì, Davide Martinenghi: *Optimizing Query Processing for the Hidden Web (Tutorial)*. Proc. of the 12th International Asia-Pacific Web Conference (APWeb 2010), page 397.
66. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz: *A general Datalog-based framework for tractable query answering over ontologies*. Proc. of the 22nd International Workshop on Description Logics (DL 2009), CEUR Electronic Proceedings.
67. Andrea Calì, Georg Gottlob, Andreas Pieris: *Tractable query answering over conceptual schemata*. Proc. of the 28th Conference on Conceptual Modelling (ER 2009), pages 175–190.
68. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz: *A general Datalog-based framework for tractable query answering over ontologies*. Proc. of the 28th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2009). **This paper won the 2019 ACM PODS Alberto O. Mendelzon Test of Time Award. The prize is awarded to papers published in the PODS proceedings ten years prior that had the most impact in terms of research, methodology, or transfer to practice over the intervening decade.**
69. Andrea Calì and Riccardo Torlone: *Checking containment of schema mappings*. Proc. of the 3rd Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2009), CEUR Electronic Proceedings.
70. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz: *Datalog[±]: a unified approach to ontologies and integrity constraints*. Proc. of the 12th International Conference on Database Theory (ICDT 2009), pages 14–30.

71. Andrea Calì, Georg Gottlob, Michael Kifer: *Taming the Infinite Chase: Query Answering under Expressive Relational Constraints*. Proc. of the 21st International Workshop on Description Logics (DL 2008), CEUR Electronic Proceedings.
72. Andrea Calì, Davide Martinenghi: *Conjunctive Query Containment under Access Limitations*. Proc. of the 27th International conference on Conceptual Modelling (ER 2008), pages 326–340.
73. Andrea Calì, Thomas Lukasiewicz, Livia Predoiu, Heiner Stuckenschmidt: *Tightly Integrated Probabilistic Description Logic Programs for Representing Ontology Mappings*. Proc. of the 5th International Symposium on Foundations of Information and Knowledge Systems, (FoIKS 2008), pages 178–198.
74. Andrea Calì, Davide Martinenghi: *Querying Data under Access Limitations*. Proc. of the 24th International Conference on Data Engineering (ICDE 2008), pages 50–59.
75. Andrea Calì, Georg Gottlob, Michael Kifer: *Taming the Infinite Chase: Query Answering under Expressive Relational Constraints*. Proc. of 11th International Conference on Principles of Knowledge Representation and Reasoning (KR 2008), pages 70–80.
76. Andrea Calì, Thomas Lukasiewicz: *An Approach to Probabilistic Data Integration for the Semantic Web*. Proc. of the 4th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2008), pages 52–65.
77. Andrea Calì, Thomas Lukasiewicz, Livia Predoiu, Heiner Stuckenschmidt: *Rule-Based Approaches for Representing Probabilistic Ontology Mappings*. Proc. of the 4th International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2008), pages 66–87.
78. Andrea Calì, Thomas Lukasiewicz, Livia Predoiu, Heiner Stuckenschmidt: *A Framework for Representing Ontology Mappings under Probabilities and Inconsistency*. Proc. of the 3rd International Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2007).
79. Andrea Calì: *Querying incomplete data with logic programs: ER strikes back*, in Proc. of the 26th International Conference on Conceptual Modeling (ER 2007), pages 245–260.
80. Andrea Calì, Thomas Lukasiewicz: *Tightly Integrated Probabilistic Description Logic Programs for the Semantic Web*, in Proc. of the 23rd International Conference on Logic Programming (ICLP 2007), pages 428–429.
81. Andrea Calì, Diego Calvanese, Davide Martinenghi: *Optimization of Query Plans in the presence of Access Limitations*, in Proc. of the ICDT Workshop on Emerging Research Opportunities in Web Data Management (EROW 2007).
82. Andrea Calì, Thomas Lukasiewicz: *An Approach to Probabilistic Data Integration for the Semantic Web*, in Proceedings of the ISWC-2006 Workshop on Uncertainty Reasoning for the Semantic Web (URSW 2006), Athens, Georgia, USA, November 2006. Volume 218 of CEUR Workshop Proceedings, CEUR-WS.org, 2006.
83. Andrea Calì, Michael Kifer: *Containment of Conjunctive Object Meta-Queries*, in Proc. of the 32nd International Conference on Very Large Data Bases (VLDB 2006) pages 942–952.
84. Andrea Calì, Diego Calvanese: *Optimising query answering in the presence of access limitations*, in Proc. of the 2nd International Workshop on Logical Aspects and Applications of Integrity Constraints (LAAIC 2006), pages 547–552.
85. Enrico Bertini, Giuseppe Santucci, Andrea Calì: *Automatic interface generation through interaction, users and device modeling*, in Proc. of the 6th International Conference on Computer-Aided Design of User Interfaces (CADUI 2006).
86. Andrea Calì: *Containment of conjunctive queries over conceptual schemata*, in Proc. of the 11th International Conference on Databases Systems for Advanced Applications (DASFAA 2006), pages 628–643.

87. Matteo Berghella, Andrea Calì, Andrea Capata, Tiziana Catarci, Paolo Cerrocchi, Paolo Masi, Marco Oppedisano, Emiliano Trevisani, Andrea Vitaletti: *SmartDate: user adaptation in location-based mobile matchmaking*, in Proc. of the International Workshop on Plastic Services for Mobile Devices (PSMD 2005).
88. Andrea Calì: *IM3: a system for matchmaking in mobile environments*, in Proc. of the 9th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES 2005), pages 268–275.
89. Enrico Bertini, Andrea Calì, Tiziana Catarci, Silvia Gabrielli, Stephen Kimani: *Interaction-based Adaptation for Small Screen Devices*, in Proc. of 10th International Conference on User Modeling (UM 2005), pages 277–281.
90. Enrico Bertini, Andrea Calì, Tiziana Catarci, Silvia Gabrielli, Stephen Kimani: *A user-adaptive small-screen optimization approach for searching books* in Proc. of the 6th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2005).
91. Andrea Calì, Domenico Lembo, Riccardo Rosati, Marco Ruzzi: *Experimenting Data Integration with DIS@DIS*, in Proc. of the 16th International Conference on Advanced Information Systems Engineering (CAiSE 2004), pages 51–66.
92. Andrea Calì, Diego Calvanese, Simona Colucci, Tommaso Di Noia, Francesco M. Donini: *A Description Logic Based Approach for Matching User Profiles*, in Proc. of the 2004 Description Logics Workshop (DL 2004), CEUR Electronic Workshop Proceedings, <http://ceur-ws.org/Vol-104/>, 2004.
93. Andrea Calì, Diego Calvanese, Simona Colucci, Tommaso Di Noia, Francesco M. Donini: *A Logic-Based Approach for Matching User Profiles*. Proc. of the 8th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES 2004), pages 187–195.
94. Andrea Calì: *Query Answering by Rewriting in GLAV Data Integration Systems Under Constraints*. Second International Workshop on Semantic Web and Databases (SWDB 2004), pages 167–184.
95. Andrea Calì, Saverio De Nigris, Domenico Lembo, Gabriele Messineo, Riccardo Rosati, Marco Ruzzi: *DIS@DIS: A System for Semantic Data Integration under Integrity Constraints* in Proc. of the 4th International Conference on Web Information Systems Engineering (WISE 2003), pages 335–338.
96. Andrea Calì: *Reasoning in Data Integration Systems: Why LAV and GAV Are Siblings*, in Proceedings of the 14th International Symposium on Foundations of Intelligent Systems (ISMIS 2003), pages 562–571.
97. Andrea Calì, Domenico Lembo, Riccardo Rosati: *Query rewriting and answering under constraints in data integration systems* in Proc. of the 19th International Joint Conference on Artificial Intelligence (IJCAI 2003), pages 16–21.
98. Andrea Calì, Domenico Lembo, Riccardo Rosati: *On the decidability and complexity of query answering over inconsistent and incomplete databases* in Proc. of the 22nd ACM SIGACT SIGMOD SIGART Symp. on Principles of Database Systems (PODS 2003), pages 260–271.
99. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, Paolo Naggari, Fabio Vernacotola: *IBIS: semantic data integration at work* in Proc. of the 15th Conference on Advanced Information Systems Engineering (CAiSE 2003), pages 79–94.
100. Andrea Calì, Diego Calvanese: *Optimized querying of integrated data over the web* in Proc. of the IFIP WG 8.1 Working Conference on Engineering Information Systems in the Internet Context (EISIC 2002), pages 285–301.
101. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini: *On the expressive power of data integration systems* in Proc. of the 21st Int. Conference on Conceptual Modeling (ER 2002), pages 338–350.

102. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini: *Data integration under integrity constraints* in Proc. of the 14th Conference on Advanced Information Systems Engineering (CAiSE 2002), pages 262–279.
103. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini: *A formal framework for reasoning on UML class diagrams* in Proc. of the 13th Int. Symposium on Methodologies for Intelligent Systems (ISMIS 2002), pages 503–513.
104. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini: *Reasoning on UML class diagrams in description logics* in Proc. of IJCAR Workshop on Precise Modelling and Deduction for Object-oriented Software Development (PMD 2001), pages 14–28.
105. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini: *Accessing data integration systems through conceptual schemas* in Proc. of the 20th Int. Conference on Conceptual Modeling (ER 2001), pages 270–284.
106. Andrea Calì, Giuseppe De Giacomo, Maurizio Lenzerini: *Models for information Integration: Turning Local-as-View into Global-as-View*, Proc. of the International Workshop on Foundations of Models for Information Integration (FMII-2001), as the 10th Workshop in the Series Foundations of Models and Languages for Data and Objects (FMLDO), Viterbo, Italy, 16th–18th September 2001, online proceedings <http://www.fmldo.org/FMII-2001/>.
107. Andrea Calì, Diego Calvanese, Maurizio Lenzerini: *Semistructured data schemas with expressive constraints* In Proc. of the 7th International Workshop on Knowledge Representation meets Databases (KRDB 2000), pages 3–16. CEUR Electronic Workshop Proceedings, <http://ceur-ws.org/Vol-29/>, 2000.

National conferences

106. Andrea Calì, Tommaso Di Noia, Thomas Walker Lynch, Azzurra Ragone: *Processing SPARQL Queries on Deep Web Sources*. Proc. of the 26th Italian Symposium on Advanced Database Systems (SEBD 2018).
107. Andrea Calì, Giuseppe De Santis, Tommaso Di Noia, Nicola Mincuzzi: *Exposing the Deep Web in the Linked Data Cloud*. Proc. of the 25th Italian Symposium on Advanced Database Systems (SEBD 2017).
108. Vito Walter Anelli, Andrea Calì, Tommaso Di Noia, Andrea Maurino, Matteo Palmonari, Azzurra Ragone: *Exposing Open Street Map in the Linked Data cloud*. Proc. of the 24th Italian Symposium on Advanced Database Systems (SEBD 2016), pages 302–309.
109. Andrea Calì, Umberto Straccia: *A Framework for Conjunctive Query Answering over Distributed Deep Web Information Resources*. Proc. of the 23rd Italian Symposium on Advanced Database Systems (SEBD 2015), pages 358–365.
110. Andrea Calì and Igor Razgon: *Complexity of Conjunctive Query Answering under Access Limitations (Preliminary Report)* 22nd Italian Symposium on Advanced Database Systems (SEBD 2014), pages 256–263.
111. Andrea Calì, Roberto De Virgilio and Tommaso di Noia: *How to find the best fishmarket in Sorrento?*. Proc. of the 22nd Italian Symposium on Advanced Database Systems (SEBD 2014), pages 394–398.
112. Andrea Calì, Andreas Pieris: *On Equality-Generating Dependencies in Ontology Querying*. Proc. of the 19th Italian Symposium on Advanced Database System (SEBD 2011).
113. Andrea Calì, Georg Gottlob, Andreas Pieris: *Tractable query answering over conceptual schemata*. Proc. of the 17th Italian Symposium on Advanced Database System (SEBD 2010), pages 454–461.

114. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz: *Datalog[±]: A Unified Approach to Ontologies and Integrity Constraints*. Proc. of the 17th Italian Symposium on Advanced Database System (SEBD 2009), pages 29–36.
115. Andrea Calì, Georg Gottlob, Thomas Lukasiewicz: *A General Datalog-Based Framework for Tractable Query Answering over Ontologies*. Proc. of the 17th Italian Symposium on Advanced Database System (SEBD 2009).
116. Andrea Calì, Thomas Lukasiewicz, Livia Predoiu, Heiner Stuckenschmidt: *Representing Ontology Mappings with Probabilistic Description Logics Programs*. Proc. of the 16th Italian Symposium on Advanced Database System (SEBD 2008), pages 438–445.
117. Andrea Calì, Riccardo Torlone: *On the Containment of Schema Mappings*. Proc. of the 16th Italian Symposium on Advanced Database System (SEBD 2008), pages 255–262.
118. Andrea Calì and Davide Martinenghi: *Query optimisation for web data sources: minimisation of the number of accesses (extended abstract)* in Proc. of the 15th Italian Symposium on Advanced Database Systems (SEBD 2007).
119. Andrea Calì, Michael Kifer: *Containment of Conjunctive Object Meta-Queries (extended abstract)* in Proc. of the 15th Italian Symposium on Advanced Database Systems (SEBD 2007).
120. Andrea Calì, Diego Calvanese: *Containment of conjunctive queries under access limitations* in Proc. of the 14th Italian Symposium on Advanced Database Systems (SEBD 2006).
121. Andrea Calì: *Reasoning in Data Integration Systems: why LAV and GAV are Siblings* Proc. of the 12th Italian Symposium on Database Systems (SEBD 2004), pages 282–289.
122. Andrea Calì, Domenico Lembo, Riccardo Rosati: *Intensional query processing in data integration systems under integrity constraints* Proc. of the 11th Italian Symposium on Database Systems (SEBD 2003), pages 475–482.
123. Andrea Calì, Saverio De Nigris, Domenico Lembo, Gabriele Messineo, Riccardo Rosati, Marco Ruzzi: *DIS@DIS: un Sistema per l'Integrazione Semantica dei Dati in Presenza di Vincoli di Integrità*, Proc. of the 11th Italian Symposium on Database Systems (SEBD 2003), pages 537–544.
124. Andrea Calì, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, Paolo Naggar, Fabio Vernacotola: *IBIS: data integration at work* in Proc. of the 10th Italian Symposium on Database Systems (SEBD 2002), pages 291–298.
125. Andrea Calì, Diego Calvanese: *Accessing data integration systems through conceptual schemas* in Proc. of the 10th Italian Symposium on Database Systems (SEBD 2002), pages 161–168.
126. Andrea Calì, Diego Calvanese: *Run-time optimization of query planning with limited source capabilities* in Proc. of the 9th Italian Symposium on Database Systems (SEBD 2001), pages 33–44.
127. Andrea Calì, Diego Calvanese, Maurizio Lenzerini: *Local constraints in semistructured data schemas* In Proc. of the 8th Italian Symposium on Database Systems (SEBD 2000), pages 65–78.

Theses

- Andrea Calì: *Query answering and optimisation in data integration systems*, Ph.D. thesis, Università degli Studi di Roma “La Sapienza” 2003.
- Andrea Calì: *Modellazione di dati semistrutturati*, in Italian, *Laurea* thesis, Università degli Studi di Roma “La Sapienza”.

Technical Reports and Drafts (selected)

- Andrea Calí, Igor Razgon: *Regular resolution for CNF of bounded incidence treewidth with few long clauses*. CoRR abs/1905.10867 (2019).
- Andrea Calí, Florent Capelli, Igor Razgon: *Non-FPT lower bounds for structural restrictions of decision DNNF*. CoRR abs/1708.07767 (2017).
- Mostafa Milani, Andrea Calí, Leopoldo E. Bertossi: *A Hybrid Approach to Query Answering under Expressive Datalog \pm* . CoRR abs/1604.06770 (2016)
- Andrea Calí, Riccardo Torlone: *Containment of Schema Mappings for Data Exchange (Preliminary Report)*. CoRR abs/1312.5912 (2013).
- Andrea Calí, Marco Console, Riccardo Frosini: *Deep Separability of Ontological Constraints*. CoRR abs/1312.5914 (2013).
- Andrea Calí, Georg Gottlob, Michael Kifer: *Taming the Infinite Chase: Query Answering under Expressive Integrity Constraints*. CoRR abs/1212.3357 (2012).
- Andrea Calí, Davide Martinenghi: *Querying Incomplete Data over Extended ER Schemata*. CoRR abs/1003.3139 (2010).

Invited talks (selected)

- *Ontology Querying: Datalog Strikes Back*. Reasoning Web Summer School 2017, London, UK.
- *Querying and searching the Deep Web*. 7th International Conference on Web Intelligence, Mining and Semantics (WIMS 2017), Amantea, Italy.
- *Deep Web and its future with Linked Data*. 4th International Workshop on Linked Web Data Management (LWDM 2014), Athens, Greece,
- *New tools for query answering on Semantic Data*, 3rd International Workshop on Semantic Search over the Web (SSW 2013), Riva del Garda, Italy, 30th August 2013.
- *Ontological Reasoning in the Web of Data*, 2nd International Workshop on Data Management for the Semantic Web (DMSSW 2013), Aalborg, Denmark, 8th July 2013.
- *New tools for ontology reasoning in Linked Data*. 3rd international workshop on linked web data management (LWDM 2013), Genova, Italy, 22nd March 2013.
- *New tools for ontology querying*, 1st International Workshop on Data Management for the Semantic Web (DMSSW 2012), Istanbul, Turkey, 27th August 2012.
- 2nd International Workshop on Semantic Search over the Web (SSW 2012), Istanbul, Turkey, 26th August 2012.
- *Conceptual modelling and ontology querying*. Workshop on Logics in Databases (LID 2009), Copenhagen, Denmark, 28th October 2009.
- *Resolución de consultas bajo restricciones expresivas: la familia Datalog $^\pm$* (*Query answering under expressive constraints: the Datalog $^\pm$ family*; in Spanish). Graduate Student Workshop, 3rd Alberto Mendelzon International Workshop on Foundations of Data Management (AMW 2009), Arequipa, Peru, 16th May 2009.
- *Querying the deep Web*, 2nd Workshop on Foundations of Databases and the Web, Punta del Este, Uruguay, 23rd-26th October 2007.
- *Querying incomplete data by query rewriting in real-world cases*, Workshop on Foundations of Databases and the Web, in memory of Alberto Mendelzon, San Rafael Glacier, Chile, 6th-10th November 2006.

- *Optimising access to Web data sources*, Workshop on The Web as a Database, Yahoo! Research, Santiago, Chile, 3rd-4th November 2006.
- *Querying inconsistent data with logic programs: ER strikes back*, Second International Workshop on Exchange and Integration of Data (EID 2006), Brixen-Bressanone, Italy, 9th-11th June 2006.
- *Querying Inconsistent Data: towards Practical Cases*, 1st International Workshop on Inconsistency and Incompleteness in Databases, Munich, Germany, 26th March 2006.
- *Experimenting with data integration: the DIS@DIS system*, ARISE Workshop on Exchange and Integration of Data, Toronto, 7th-9th October 2004, IBM Toronto Lab.
- *Inconsistency and Incompleteness in Data Integration: a Logic-based Approach*, CoLogNET Workshop on Logic-based Methods for Information Integration, Vienna, Austria, 23rd August 2003.

Invited seminars (selected)

1. *A Computational Model for the Deep Web*. Technische Universität Wien, 8th July, 2019.
2. *Searching and Querying the Deep Web: a Foundational Approach*. University of Edinburgh, UK, 9th December 2016.
3. *Querying the Deep Web: old and new perspectives*. Institute of Informatics, Warsaw Polytechnic, 4th November 2015.
4. *Query Processing in the Presence of Access Limitations (Processamento di interrogazioni in presenza di limitazioni di accesso: nuovo studio teorico e primi risultati di complessità computazionale; in Italian)*. Università Roma Tre, 14th July 2014.
5. *Tools for querying data under Expressive Constraints*. Università della Calabria, Rende, Italy, 7th October 2013.
6. *Functional Constraints in Ontology Reasoning*. Università Roma Tre, Roma, Italy, 5th December 2012.
7. *Decidable logics for the Semantic Web*. Institute of Informatics, Warsaw Polytechnic, 3rd April 2013.
8. *The revenge of ER*. Politecnico di Milano, Milano, Italy, 12th April 2012.
9. *A Toolbox for Ontology Reasoning*. Department of Computer Science, Free University of Bozen-Bolzano, Italy, 14th December 2011.
10. *Integración de datos y razonamiento bajo ontologías (Data integration and reasoning under ontologies; in Spanish)*. Seminario Inteligencia de Negocios, Universidad del Desarrollo, Santiago, Chile 6th December 2011.
11. *Tractable ontological query answering: ER Strikes Back*. Università Roma Tre, Roma, Italy, 23rd June 2011.
12. *Query optimisation in the Deep Web (with Davide Martinenghi)*. Università Roma Tre, Roma, Italy, 10th June 2010.
13. *Resolución de consultas en bases de conocimiento (Query answering under knowledge bases; in Spanish)*. II Seminario Internacional de Iniciación Científica en Ingeniería y Computación, Universidad Peruana Unión, Juliaca, Peru, 10th May 2009.
14. *Expressive ontologies for data modelling: the query answering problem*. Università Roma Tre, Roma, Italy, 15th March 2009.
15. *Query answering under expressive relational constraints: the case of infinite chase*, Faculty of Computer Science, Free University of Bozen-Bolzano, Italy, 19th June 2008.

16. *Taming the infinite chase: query answering under expressive relational constraints*. Institut für Informatik, Albert-Ludwigs-Universität Freiburg, Germany, 20th April 2008.
17. *The Chase: a good old tool for query containment and data exchange*. Università Roma Tre, Roma, Italy, 20th March 2008.
18. *Checking conjunctive query containment under relational constraints*, Rijksuniversiteit Groningen, The Netherlands, 21st May 2007
19. *Testing conjunctive query containment under relational dependencies* (part of the course taught by Prof. Jan Chomicki), University of Warsaw, Poland, 26th April 2007.
20. *Reasoning on constraints in data integration*, Universitat Pompeu Fabra, Barcelona, Spain, 29th March 2007.
21. *Query optimisation in the presence of integrity constraints*, Università di Messina, Italy, 27th March 2007.
22. *Integrating data in the presence of constraints*, Bell Labs, Alcatel-Lucent, New Providence, NJ, USA, 4th January 2007.
23. *Containment of queries over expressive database systems*, Carleton University, Ottawa Canada, 2nd November 2005.
24. *Query containment under database dependencies*, State University of New York at Stony Brook, NY, USA, 24th October 2005.
25. *An introduction to information integration*, State University of New York at Stony Brook, NY, USA., 21st October 2005.
26. *Logic-Based information integration*, Carleton University, Ottawa Canada, 24th March 2005.
27. *Query answering and rewriting under constraints in data integration systems*, EPFL, Lausanne, Switzerland, 4th August 2003.
28. *An introduction to query answering in data integration systems*, Humboldt Universität zu Berlin, Germany, 4th July 2003.
29. *Query answering and rewriting under constraints in data integration systems*, Brandenburgische Technische Universität Cottbus, Germany, 3rd July 2003.
30. *Query answering and optimisation in data integration systems*, Faculty of Computer Science, Free University of Bozen, Italy, 21st April 2003.

Other academic talks (selected)

- *Cos'è un vomitorium? Un excursus letterario sugli eccessi nei banchetti dell'Antica Roma* (in Italian). Politecnico di Milano, Milano, Italy, 12th April 2012.
- *Why (not) to be a scientist*. Keble College, Oxford, UK, 19th March 2010.
- *How to be a true gentleman, Part II*. Keble College, Oxford, UK, 20th March 2009.
- *On the importance of wit and humour for a gentleman: Ferdinando Galiani's example*. Keble College, Oxford, UK, 12th December 2008.
- *Let him who is without sin cast the first stone*. Keble College Oxford, UK, 12th June 2008.
- *Fun with word games*, Università della Calabria, Rende, Italy, 22nd July 2006.
- *Tie knots: history and practice*, Università della Calabria, Rende, Italy, 21st July 2006.

Student Supervision

Doctoral Students

- Dimitris Kargatzis (as second supervisor), started in January 2019; Birkbeck, University of London.
- Seongil Han, started in January 2017; Birkbeck, University of London.
- Mirko Michele Dimartino. Graduated in September 2019. Birkbeck, University of London.
- Riccardo Frosini. Graduated in 2018. Birkbeck, University of London.

Msc and BSc Theses

Since 2000, I have been supervising over 100 Master (including the Italian equivalent *Laurea*) and Bachelor theses in Computer Science and Computer Engineering.

Research projects and grants (selected)

- *Birkbeck BEI School Research Grant*: I have been recipient of five such grants, three as principal (sole) investigator and two as co-investigator. Topics include Linked Data management, semantic search for recommendations in e-markets, data exchange and Deep Web querying. The latest grant is on *Schema-Based Query Optimisation in Graph Database*, with Jan Hidders and Igor Razgon.
- *COST Action IC1302: semantic KEYword-based Search on sTructured data sOurcEs (KEY-STONE)*, 2013–2016. Funded by the EU. This is a network where I do research as Management Committee Member, representing the UK.
- *LIQUID: Logic-based Integration and Querying of Unindexed Internet Data*, 2013–2015. Funded by EPSRC (ref. EP/L003260/1). Grant of GBP 110,698. **Principal Investigator**.
- *Schema Mappings and Automated Services for Data Integration and Exchange*, 2007–2011. Supported by EPSRC, the British Engineering and Physical Sciences Research Council (ref. EP/E010865/1).
- *TONES: Thinking ONtologiES*, 2005–2008. Information Societies Technology 3-year STREP FET project financed within the European Union 6th Framework Programme (contract no. FP6-7603).
- *MAIS: Multichannel Adaptive Information Systems*. Italian National Project within the FIRB programme of the Italian Department of Education.
- *D2I: from Data to Information*, 2000–2003. Partially funded by the Italian Ministry of Instruction, University and Research.
- *IBIS: Internet-Based Information System*, 2001–2003. Joint project between the Dept. of Computer and System Sciences, Università degli Studi di Roma “La Sapienza”, and CM Sistemi, Italy.
- *SMO: System Management Ontology*. Project jointly developed by the Dept. of Computer and System Sciences, Università degli Studi di Roma “La Sapienza”, and IBM Tivoli Labs, Italy.

Prototypes (selected)

1. *Pomodoro*, 2022. This is a system to support the trade of food by producers by means of AI techniques.
2. *MeetAtNine*, 2017. This system allows groups of people who are already connected in social networks to organise outings in a geo-located manner.
3. *Dataplex*, 2015. This is a system for querying the Deep Web, especially with keyword queries; it is written in Racket Lisp.

4. *FutureTaxi*, 2013, a system for intelligent taxi booking with mobile devices.
5. *SmartDate*, 2004. This is a matchmaking system for dating, employing logic-based reasoning techniques to determine the compatibility between a supply profile and a demand profile.
6. *IM3*, 2004, a matchmaking system.
7. *DIS@DIS*, 2003, a data integration system.
8. *IBIS*, 2003, a system for querying Deep Web sources accessible through web forms.

External examiner of Phd theses

1. Markus Hissl, Technische Universität Wien, Austria
2. Carlos Arturo Raymundo Ibañez, Universidad Rey Juan Carlos, Spain
3. Julien Romero, Telecom Paris, France
4. Shqiponja Ahmetaj, Technische Universität Wien, Austria
5. Mohammad Khelghati, University of Twente, Netherlands
6. Lorenzo Lepore, Università degli Studi di Roma “La Sapienza”, Italy
7. Julia Wiedmann, University of Oxford, UK
8. Jinsong Guo, University of Oxford, UK
9. Luying Chen, University of Oxford, UK
10. Adnan Abid, Politecnico di Milano, Italy

Organisational activities (selected)

- Member of the Editorial Board of the Journal of IGPL, Oxford University Press.
- Programme co-chair of the First International Workshop *CAiSE for Legal Documents* (COURT 2020), co-located with the 32nd International Conference on Advanced Information Systems Engineering (CAiSE 2020), Grenoble, France, June 2020.
- Program co-chair of the 31st British International Conference on Databases (BICOD 2017).
- Program co-chair of the 2nd KEYSTONE Conference (IKC 2017).
- Program co-chair of the 9th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2015).
- Program co-chair of the 8th International Conference on Scalable Uncertainty Management (SUM 2014)
- Program co-chair of the First Workshop on Logics in Databases (LID 2008)
- Steering Committee member of the Workshop on Logics in Databases (LID)
- Program Committee member of:
 1. 28th International Conference on Database Systems for Advanced Applications (DAS-FAA 2023)
 2. 26th International Conference on Database Systems for Advanced Applications (DAS-FAA 2021)
 3. 24th International Conference on Extending Database Technology (EDBT 2021)
 4. 29th International Joint Conference on Artificial Intelligence and 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020)
 5. 23rd International Conference on Extending Database Technology (EDBT 2020)
 6. Datalog 2.0 2019 Workshop
 7. 27th Italian Symposium on Advanced Database Systems (SEBD 2019)
 8. 14th Ershov Informatics Conference (PSI 2019)

9. Blockchain enabled Semantic Web Workshop (BlockSW 2019)
10. 28th International Joint Conference on Artificial Intelligence (IJCAI 2019)
11. Datalog 2.0 2019 Workshop
12. 27th Italian Symposium on Advanced Database Systems (SEBD 2019)
13. 14th Ershov Informatics Conference (PSI 2019)
14. 24th International Conference on Database Systems for Advanced Applications (DAS-FAA 2019)
15. 33rd AAAI Conference on Artificial Intelligence (AAAI 2019).
16. 44th International Conference on Very Large Databases (VLDB 2018)
17. 14th European Semantic Web Conference (ESWC 2017)
18. 36th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2017)
19. 43rd International Conference on Very Large Databases (VLDB 2017)
20. 12th Ershov Informatics Conference (PSI 2017)
21. 42nd International Conference on Very Large Databases (VLDB 2016)
22. IFIP WG 8.4, 8.9, TC 5 International Cross-Domain Conference (CD-ARES 2016)
23. 41st International Conference on Very Large Databases (VLDB 2015)
24. ACM International Conference on Information and Knowledge Management (CIKM 2015)
25. 9th International Conference on Scalable Uncertainty Management (SUM 2015)
26. 14th International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE 2015)
27. ACM International Conference on Information and Knowledge Management (CIKM 2014)
28. 13th International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE 2014)
29. 11th European Semantic Web Conference (ESWC 2014)
30. 13th International Semantic Web Conference (ISWC 2014)
31. 33rd ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2014)
32. 40th International Conference on Very Large Databases (VLDB 2014)
33. 22nd Italian Symposium on Advanced Database Systems (SEBD 2014)
34. 39th International Conference on Very Large Databases (VLDB 2013)
35. 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013).
36. 27th AAAI Conference on Artificial Intelligence (AAAI 2013), Special Track on Artificial Intelligence and the Web.
37. 12th International Conference on Ontologies, Databases, and Applications of Semantics (ODBASE 2013)
38. 21th Italian Symposium on Advanced Database Systems (SEBD 2013)
39. 2nd International Workshop on Non-conventional Data Access (NoCoDA 2013)
40. 10th International Conference on Mobile Web Information Systems (MobiWIS 2013)
41. 5th International Workshop on Semantic Web Information Management (SWIM 2013)
42. 3rd International Workshop on Linked Web Data Management (LWDM 2013)
43. 16th International Conference on Extending Database Technology (EDBT 2013), Demonstrations Track.
44. 11th International Conference on Ontologies, Databases, and Applications of Semantics (ODBASE 2012)
45. 4th International Workshop on Ontology-Driven Information Systems Engineering (ODISE 2012)
46. International Workshop on Non-Conventional Data Access (NoCoDA 2012)
47. 4th International Workshop on Semantic Web Information Management (SWIM 2012)
48. Datalog 2.0 2012 Workshop
49. 7th International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2012)
50. 9th Extended Semantic Web Conference (ESWC 2012)
51. 13th International Conference on Principles of Knowledge Representation and Reasoning (KR 2012)
52. International Workshop on Semantic Technologies meet Recommender Systems and Big Data

- (SeRSy 2012)
53. 6th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2012)
 54. 28th International Conference on Data Engineering (ICDE 2012)
 55. 6th International Workshop on Semantics in Data and Knowledge Bases (SDKB 2011)
 56. 24th International Workshop on Description Logics (DL 2011)
 57. 2nd Workshop on Semantic Personalized Information Management: Retrieval and Recommendation (SPIM 2011).
 58. 3th International Workshop on Semantic Web Information Management (SWIM 2011)
 59. 1st International Workshop on Managing Data Throughout its Lifecycle (DaLi 2011)
 60. 2nd International Workshop on Evolving Theories of Conceptual Modelling (ETheCoM 2011).
 61. 5th International Conference on Web Reasoning and Rule Systems (RR 2011)
 62. 3rd International Workshop on Ontology-Driven Information Systems Engineering (ODISE 2011)
 63. 14th International Conference on Database Theory (ICDT 2011)
 64. 19th National Conference on Advanced Database Systems (SEBD 2011)
 65. 4th International Conference on Web Reasoning and Rule Systems (RR 2010)
 66. 4th Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2010)
 67. 23rd International Workshop on Description Logics (DL 2010)
 68. 5th International Workshop on Semantics in Data and Knowledge Bases (SDKB 2010)
 69. 1st International Workshop on Evolving Theories of Conceptual Modeling (ETheCoM 2009)
 70. 8th International Semantic Web Conference (ISWC 2009)
 71. 6th European Semantic Web Conference (ESWC 2009)
 72. 3rd Alberto Mendelzon Workshop on Foundations of Data Management (AMW 2009)
 73. Workshop for eGovernment via Software Services (WeGovS2)
 74. 1st International Workshop on Distributed XML Processing: Theory and Practice (DXP 2009)
 75. 22nd International Workshop on Description Logics (DL 2009)
 76. 13th International Database Engineering and Applications Symposium (IDEAS 2009)
 77. 27th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2008)
 78. 18th European Conference on Artificial Intelligence (ECAI 2008)
 79. 12th East-European Conference on Advances in Databases and Information Systems (ADBIS 2008)
 80. The Genetic and Evolutionary Computation Conference (GECCO 2008)
 81. 5th European Semantic Web Conference (ESWC 2008)
 82. 5th European Semantic Web Conference, Demonstration Track (ESWC 2008)
 83. 2nd International Conference on Web Reasoning and Rule Systems (RR 2008)
 84. 2nd International Conference on Complex, Intelligent and Software Intensive Systems (CI-SIS 2008)
 85. 2nd International Workshop on Semantic Web Architectures For Enterprises (SWAE 2008)
 86. 3rd International Workshop on Semantics in Data and Knowledge Bases (SDKB 2008)
 87. 13th International Conference on Knowledge-Based and Intelligent Information and Engineering Systems (KES 2009)
 88. 20th International Workshop on Description Logics (DL 2007)
 89. 11th International Symposium on Databases and Programming Languages (DBPL 2007)
 90. 4th European Semantic Web Conference (ESWC 2007)
 91. WebDB Workshop 2007 (WebDB 2007)
 92. 23rd International Conference on Data Engineering (ICDE 2007)
 93. 20th International Workshop on Description Logics (DL 2007)
 94. 15th National Conference on Advanced Database Systems (SEBD 2007)
 95. 1st International Conference on Complex, Intelligent and Software Intensive Systems (CI-SIS 2007)
 96. 1st Workshop on Semantic Web Architectures for Enterprises (SWAE 2007)
 97. 1st International Workshop on Semantic Information Integration on Knowledge Discovery (SIIK 2006)
 98. 5th International Semantic Web Conference (ISWC 2006)
 99. 5th International Workshop on Data Integration and the Semantic Web (DISWeb 2006)

100. 2nd International Conference on Rules and Rule Markup Languages for the Semantic Web (RuleML 2006)
101. 21st Annual ACM Symposium on Applied Computing (SAC 2006)
102. International Workshop on Inconsistency and Incompleteness in Databases (IIDB 2006)
103. 2nd International Workshop on Logical Aspects and Applications of Integrity Constraints (LAAIC 2006)
104. 1st International Workshop on Logical Aspects and Applications of Integrity Constraints (LAAIC 2005)
105. 4th International Workshop on Data Integration and the Semantic Web (DISWeb 2005)
- Member of the Organising Committee of the 13th National Conference on Advanced Database Systems (*Sistemi Evoluti per Basi di Dati*, SEBD 2005).
- Selected reviewing activity:
 1. Journal of the Association for Computing Machinery
 2. Journal of Artificial Intelligence Research
 3. Journal of Computer and System Sciences
 4. Journal of Applied Logics
 5. World Wide Web Journal
 6. Information Processing Letters
 7. Annals of Mathematics in Artificial Intelligence
 8. Data and Knowledge Engineering
 9. International Journal of Electronic Commerce
 10. ACM Transactions on Computational Logic
 11. ACM Transactions on Database SYstems
 12. Journal of Information Sciences

Reviewing Activities for Funding Bodies (selected)

1. European Research Council (ERC)
2. Engineering and Physical Sciences Research Council (EPSRC), UK
3. National Science Foundation (NSF), USA
4. Comisión Nacional de Investigación Científica y Tecnológica (CONICYT), Chile
5. *Cooperation* 2011 programme, Ministry of Education, Lifelong Learning and Religious Affairs, General Secretariat for Research and Technology, Greece

Selected teaching activities

Academic

- *Academic years 2010-2011 to present*: module leader of “Computer Networking” for the BSc in Information Systems and Management, University of London, Birkbeck College.
- *Academic years 2010-2011 to present*: module leader of “Information Systems Management” for the BSc in Information Systems and Management, University of London, Birkbeck College.
- *Academic year 2008-2009*: taught the tutorials for the course “Logic and Proof”, Keble College, University of Oxford.
- *Academic year 2007-2008*: contract lecturer for the course “Intelligent Systems II”, Computing Laboratory, University of Oxford.
- *Academic years 2004-2005, 2005-2006 and 2006-2007*: contract lecturer for the course “XML and Semistructured Data”, for the Master of Science in Computer Science at the Faculty of Computer Science of the Free University of Bozen-Bolzano.

- *20th–21st July 2006*: lecturer for the course “Foundations of information Integration” at the Università della Calabria, Rende, Italy, for the Ph.D program in Computer Engineering.
- *3rd–6th July 2006*: lecturer for the course “Foundations of XML and Semistructured Data” at the BIT (*Bolzano-Innsbruck-Trento*) Summer School, Brixen-Bressanone.
- *Academic years 2003-2004 and 2004-2005*: lecturer for the course of database and data-oriented application design (“Progetto di Basi di Dati”) at the Faculty of Engineering of the Università degli Studi di Roma “La Sapienza”.
- *Academic years 2000-2001 and 2001-2002*: tutor for the course of databases (“Basi di Dati”), held by Prof. Tiziana Catarci (academic year 2000-2001) and Prof. Maurizio Lenzerini (academic year 2001-2002), at the Faculty of Engineering of the Università degli Studi di Roma “La Sapienza”.
- *Academic year 1999-2000*: tutor for the course of data structures in C++ for the Diploma (Bachelor) in Computer and System Engineering, at the Faculty of Engineering of the Università degli Studi di Roma “La Sapienza”.

Industrial

Since 2000 I have been teaching courses for computer companies and training firms; I taught several courses about database design, introduction to programming, object-orientation, UML, algorithms in C++ and Java. Among the others, I taught for *Engineering S.p.A.*, Roma, Italy, several editions of the courses of database design and object orientation; I taught courses about database modelling and design for *CM Sistemi*, Roma, Italy. From 2001 to 2006 I was lecturer for high technical education (*IFTS, Istruzione e Formazione Tecnica Superiore*) for the regional Government of Lazio region.

Other interests

Piano; guitar; poetry and word games, watercolour painting; philosophy and metaphysics; card magic and *legerdemain*; basketball.

Godalming, 5th of May, 2023

