Curriculum Vitae
Giuseppe De Giacomo
July 2021

EDUCATION

1995 PhD:	Dipartimento di Informatica e Sistemistica, Università degli Studi di Roma "La Sapienza", Italy - Supervised by Prof. Maurizio Lenzerini.
1991 Master:	Laurea in Ingegneria Elettronica (5 years), Facolt`a di Ingegneria, Università degli Studi di Roma "La Sapienza", Italy
1990 – 1991	**Erasmus Visiting** Student at University of Bristol, UK, with John W. Lloyd, preparing master thesis

CURRENT POSITION

2006 – present	**Full Professor** (Professore Ordinario), Università degli Studi di Roma "La Sapienza", Italy

PREVIOUS POSITIONS

2001 – 2006	**Associate Professor** (Professore Associato), Università degli Studi di Roma "La Sapienza", Italy
1998 – 2001	**Assistant Professor** (Ricercatore), Università degli Studi di Roma "La Sapienza", Italy
1996 – 1997	**Research Associate**, University of Toronto, Toronto, ON, Canada, working with Prof. Hector Levesque and Prof. Ray Reiter
AY 1993/1994	**Visiting Scholar**, Stanford University, Stanford, CA, USA, working with Prof. Yoav Shoham

LONG TERM VISITS

Summer 2013	**Visiting Professor at University of Melbourne**, Melbourne, VIC, Australia – Host Prof. Adrian Pearce
2010 – 2011	**Visiting Professor at University of Toronto and York University**, Toronto, ON, Canada - Hosts Hector Levesque and Yves Lesperance
Summer 2008	**Visiting researcher at IBM Watson Research Center**, Yorktown Heights, NY, USA – Host Rick Hull

FELLOWSHIPS AND AWARDS

- **2021 – AAAI Classic Paper Award** at 5th AAAI Conference on Artificial Intelligence **(AAAI'21)** for the paper "DL-Lite: Tractable Description Logics for Ontologies" originally presented at AAAI'05.
- **2021 – JP Morgan Faculty Award** for the research project *Resilience-based Generalized Planning and Strategic Reasoning*.
- **2020 – Sapienza School for Advanced Studies Fellow** (https://web.uniroma1.it/sssas/en) in the area of Science and Technology.
- **2019 – ERC Advenced Grant** for the project *WhiteMech: White-Box Self Programming Mechanisms.*
- **2019 – Keynote** on *Queryable Self-Deliberating Dynamic Systems* at the 28th International Joint Conference on Artificial Intelligence (IJCAI 2019).
- **2016 – AAAI Fellow** (http://www.aaai.org/Awards/fellows-list.php), citation: *For significant*

contributions to the field of knowledge representation and reasoning, and applications to data integration, ontologies, planning, and process synthesis and verification.

- **2015 – ACM Fellow** (http://awards.acm.org/award_winners/degiacomo_5943097.cfm), citation: *For contributions to description logics, data management, and verification of data-driven processes*.
- **2012 – EurAI Fellow** (https://www.eurai.org/awards_and_grants/fellows).
- **2015 – Award Sapienza 2015** for the research project *ICE: Immersive Cognitive Spaces*.
- **2013 – Most influential paper in the decade** at the 11th International Conference on Service Oriented Computing, 2013 (ICSOC'13), for the paper "Automatic Composition of E-services That Export Their Behavior" presented at ICSOC'03.
- **2013 – Best paper award** at 7th international Conference on Web Reasoning and Rule Systems (RR'13).
- **2013 – Miegunyah Distinguished Fellowship**, University of Melbourne, for the public lecture *Cognitive Robotics: The science of building intelligent autonomous robots and software agents*.
- **2013 – Award Sapienza 2013** for the research project *Spriritles: Spiritlet-based Smart Spaces*.
- **2010 – IBM Open Collaborative Faculty Award 2010** for *Artifact-centric Business Process Modeling.*
- **2009 – IBM Open Collaborative Faculty Award 2009** for *Radical Simplification of Artifact-Centric Business Process Modeling*.

MAIN RESEARCH AREAS

Artificial Intelligence, Knowledge Representation and Reasoning, Description Logics, Ontology Languages, Reasoning about Actions, AI Planning, Cognitive Robotics, Database Management, Data Integration, Service Composition, Verification in Presence of Data, Generalized Planning and Synthesis

RESEARCH ACCOMPLISHMENTS

Giuseppe De Giacomo's research concerns theoretical, methodological and applicative aspects in different areas of AI and CS, including: LTL and LDL over finite traces; Bounded situation calculus; Decidability of data- aware processes; Generalized planning by model checking and automata-theoretic techniques from Verification; ConGolog programming language based on Situation Calculus; Ontology Based Data Access (OBDA); DL-lite family: description logics with tractable data complexity; reasoning on UML Class Diagrams; service composition and synthesis; regular path queries for view-based query answering in graph databases; data integration with description logics constraints; conjunctive query answering in description logics; correspondence between description logics and logics of programs. This work has deeply impacted several areas of AI and CS.

IMPACT MEASURES

He is the author of more than 200 publications in top scientific journals and conference proceedings, including the following CORE A*/A conferences and journals: IJCAI (33, A*), KR (30, A*), AAAI (25, A*), AAMAS (11, A*), ICAPS (10, A*), PODS (9, A*), VLDB (3, A*), CAiSE (4, A), ECAI (4, A), BPM (4, A), ICSOC (4, A), ICDT (3, A), ISWC (2, A), Artif. Intell. (8, A*), J. Comput. Syst. Sci. (3, A*), Inf. Syst. (2, A*), J. Log. Comput. (1, 4, A), J. Artif. Intell. Res. (3, A), J. Autom. Reasoning (1, 1, A), ACM Trans. Comput. Log. (1, 2, A), Theor. Comput. Sci. (2, A). A comprehensive list of publication can be found on DBLP https://dblp.org/pid/g/GDGiacomo.html.

According to Google Scholar, July 2021, his *h-index* is 76 with 23371 citations and his *i10-index* is 230. Currently the PI's 5 most cited published papers are (citations from google scholar):

1. ***Tractable reasoning and efficient query answering in description logics: The DL- Lite family***. *D. Calvanese, G. De Giacomo, D. Lembo, M. Lenzerini, R. Rosati. Journal of Automated Reasoning 39 (3), 385-429, 2007 –* ***1567*** *cit.*
2. ***Linking data to ontologies***. *A. Poggi, D. Lembo, D. Calvanese, G. De Giacomo, M. Lenzerini, R. Rosati. Journal on data semantics X, 133-173, 2008 -* ***888*** *cit.*
3. ***ConGolog, a concurrent programming language based on the situation calculus***. *G. De Giacomo,*

*Y. Lesperance, H. Levesque: Artif. Intell. 121(1-2): 109-169 (2000) - **737** cit.*

4. ***Reasoning on UML class diagrams**. D. Berardi, D. Calvanese, G. De Giacomo. Artif.Intell. 168(1-2): 70-118 (2005) – **701** cit.*
5. ***Automatic Composition of E-services That Export Their Behavior**. D. Berardi, D.Calvanese, G. De Giacomo, M. Lenzerini, M. Mecella. ICSOC 2003: 43-58 – **584** cit. Awarded as "the most influential ICSOC paper in the last 10 years" at ICSOC 2013.*

MOST RECENT PAPERS *(2021)*

1. ***Situation Calculus for Controller Synthesis in Manufacturing Systems with First-Order State Representation.** Giuseppe De Giacomo, Paolo Felli, Brian Logan, Fabio Patrizi, Sebastian Sardina. Artificial Intelligence, 2021. (To appear.)*
2. ***The Nondeterministic Situation Calculus.** Giuseppe De Giacomo, Yves Lesperance. KR 2021.*
3. ***Synthesizing Best-effort Strategies under Multiple Environment Specifications.** Benjamin Aminof, Giuseppe De Giacomo, Alessio Lomuscio, Aniello Murano, Sasha Rubin. KR 2021.*
4. ***Synthesis with Mandatory Stop Actions.** Giuseppe De Giacomo, Antonio Di Stasio, Giuseppe Perelli, Shufang Zhu. KR 2021.*
5. ***Timed Trace Alignment with Metric Temporal Logic over Finite Traces.** Giuseppe De Giacomo, Aniello Murano, Fabio Patrizi, Giuseppe Perelli. KR 2021.*
6. ***Finite-Trace and Generalized-Reactivity Specifications in Temporal Synthesis.** Giuseppe De Giacomo, Antonio Di Stasio Lucas M. Tabajara, Moshe Vardi, Shufang Zhu. IJCAI 2021.*
7. ***Efficient PAC Reinforcement Learning in Regular Decision Processes.** Alessandro Ronca, Giuseppe De Giacomo. IJCAI 2021.*
8. ***Best-Effort Synthesis: Doing Your Best Is Not Harder Than Giving Up.** Benjamin Aminof, Giuseppe De Giacomo, Sasha Rubin. IJCAI 2021.*
9. ***HyperLDLf: a Logic for Checking Properties of Finite Traces Process Logs.** Giuseppe De Giacomo, Paolo Felli, Marco Montali, Giuseppe Perelli. IJCAI 2021.*
10. ***Intensional and Extensional Views in DL-Lite Ontologies.** Marco Console, Giuseppe De Giacomo, Maurizio Lenzerini, Manuel Namici. IJCAI 2021.*
11. ***Compositional Approach to Translate LTLf/LDLf into Deterministic Finite Automata.** Giuseppe De Giacomo, Marco Favorito. ICAPS 2021.*
12. ***From Component-based Architectures to Microservices: A 25-years-long Journey in Designing and Realizing Service-based Systems.** Giuseppe De Giacomo, Maurizio Lenzerini, Francesco Leotta, Massimo Mecella. Next-Gen Digital Services, LNCS 12521 (2021), 3-15.*
13. ***Embedding Reactive Behavior into Artifact-centric Business Process Models.** Xavier Oriol, Giuseppe De Giacomo, Montserrat Estanol, Ernest Teniente. Future Generation Computer Systems, 117 (2021), 97-110.*
14. ***Instance-Level Update in DL-Lite Ontologies through First-Order Rewriting.** Giuseppe De Giacomo, Xavier Oriol, Riccardo Rosati, Fabio Domenico Savo. J. Artif. Intell. Res. (JAIR), 70: 1335-1371 (2021).*
15. ***From Component-Based Architectures to Microservices: A 25-years-long Journey in Designing and Realizing Service-Based Systems.** Giuseppe De Giacomo, Maurizio Lenzerini, Francesco Leotta, Massimo Mecella. Next-Gen Digital Services 2021: 3-15*
16. ***Behavioral QLTL.** Giuseppe De Giacomo, Giuseppe Perelli. CoRR abs/2102.11184 (2021)*
17. ***Recognizing LTLf/PLTLf Goals in Fully Observable Non-Deterministic Domain Models.** Ramon Fraga Pereira, Francesco Fuggitti, Giuseppe De Giacomo. CoRR abs/2103.11692 (2021)*
18. ***Markov Abstractions for PAC Reinforcement Learning in Non-Markov Decision Processes.** Alessandro Ronca, Gabriel Paludo Licks, Giuseppe De Giacomo. Submitted (2021)*

PROJECTS (SELECTION)

He has been involved in several National and European projects, including: (1997-1999) EU Esprit Project 22469 **DWQ - Data Warehouse Quality**; (2001-2004) EU FP5 IST-2001-34825 **SEWASIE – SEmantic Webs and AgentS in Integrated Economies**; (2001-2004) EU FP5 IST-2001-33570 **INFOMIX – Boosting Information Integration**; (2006-2009) Italian MIUR-funded FIRB 2005 project **TOCAI.IT – Knowledge-based Technologies for Internet-based Enterprises** [Tecnologie Orientate alla Conoscenza per Aggregazioni di Imprese in Internet]. He has leaded several projects, including: (2005–2008) EU FP6-7603 **TONES: Thinking ON-tologiES**, PI for Sapienza, value: EUR 264,000 (total value: EUR 1,438,910), from final review: "*The TONES project can be considered as a success story of a FET-project in terms of scientific achievements"*; (2010–2013) EU FP7-ICT-257593 **ACSI: Artifact-Centric Service Interoperation**, PI for Sapienza, and Scientific Coordinator for the whole project, value: EUR 435,000 (total value: EUR 3,243,937), from final review: "*The scientific productivity of ACSI has been extraordinary, leading to a great impact on BPM, DB and AI research, as indicated by invited talks and tutorials on ACSI results in many high profile conferences, and by the addition of ACSI topics to the list of conference and workshop topics in these areas"*; (2012–2016) EU FP7-IST-IP-318338 **OPTIQUE: Scalable End-user Access to Big Data**, key personel of Sapienza, value: EUR 802,488 (total value: EUR 9,838,329); (2009–2014) Open Collaboration Research W0954341 with Rick Hull of IBM T. J. Watson Research Center, NY, on **Data Aware Business Processes and Operation, through An Artifact-Centric Approach**, PI, value: USD 45,000; (2010–2012) UK Royal Society International Joint Project 2009/R2 on **Web Services Automatic Synthesis through ATL Symbolic Model Checking**, with Alessio Lomuscio, Imperial College London, total value: GBP 12,000; (2012–2014) Australian Research Council (ARC) Discovery Project DP120100332 **Optimisation of Embedded Virtual Complex Systems by Re-using a Library of available component**, with Sebastian Sardina of RMIT and Maurice Pagnucco of Univ. of Sidney, PI for Sapienza, total value: AUD 406,278; (2013–2015) Sapienza Ateneo Project **Spiritles: Spiritlet-based Smart Spaces**, PI, value: EUR 60,000. (2015-2018) Sapienza Ateneo Project **ICE: Immersive Cognitive Spaces**, PI, value: EUR 35,000; (2013-2018) NSF USA Grant No.1319459 **SHF: Small: Pushing the Frontier of Linear-Time Model-Checking Technology**, Sapienza PI, with Moshe Vardi, Rice University, total value: USD 304582; (2016-1019) NSF China Grant No. 61572535 **Theory and Techniques for Reasoning about Actions and High-level Agent Control in Multi-Domains**, Sapienza PI, with Yongmei Liu, Sun Yat-sen Univ. of Guangzhou, China total value: CNY 804,000. He is currently involved in the following projects: (2019-2024) ERC Advanced Grant on **WhiteMech: White-Box Self Programming Mechanisms,** PI, value EUR2.5 M; (2020-2023) EU ICT-48 **TAILOR: Foundations of Trustworthy AI integrating Learning, Optimisation and Reasoning**, Leader of WP5 on *Deciding and Learning How to Act*, value EUR 308K (total value EUR 18M); (2021-2024) EU ICT-49 **AIPlan4EU: Bringing AI Planning to the European AI On-Demand Platform**, participant, value EUR 177K (total value EUR 5M).

INVITED TALKS (SELECTION)

- **On reasoning and learning in self-deliberating dynamic systems and ERC project WhiteMech**: KI'21 (Keynote), Berlin, September 2021; IJCAI'19 (Keynote), Macau, Macau; 2019; BRAIN 2019 (Keynote) Bolzano, IT; IEEE-ICC*CC 2019 (Keynote) Milano, IT; AIxIA 2019 (Keynote) Rende, Italy IT; Nanjing University & Southeast University Nanjing, CN, 2019; Hong Kong University of Science and Technology, HK, 2019; Sun Yat-sen University, Guangzhou, CN, 2019; ISI-USC, Los Angeles USA, 2019; East China Normal University, Shanghai, CN, 2019.
- **On reasoning, planning and synthesis and reinforcement learning in LTL and LDL on infinite and finite traces:** ESSLLI'21 (Keynote) Utrech, NL, July 2021, FMAI'21, London, UK, April 2021; Rice Univ, Houston, USA, 2020, online; LAMAS@AAMAS'20 (Keynote), New Zealand, online; GenPlan@AAAI'20 (Keynote), New York, USA; CILC'18 (Keynote), Bolzano, IT; Rice Univ, Houston, USA, 2018, GenPlan@ICAPS'17 (Keynote), Pittsburgh, USA; SR'16 (Keynote), New York, USA; Highlights of Logic, Games & Aut. '15 (Keynote), Prague, CZ; ICAPS'13 (Keynote), Rome, IT.
- **On AI foundations for data-aware BPM**: BPM'21 (Keynote), Rome, IT, September 2021; CBPM@BPM'17, Barcelona, SP, (Keynote); York U., (Distinguished Lassonde Lecture), Canada, '17; U. of Toronto, Canada, '17; WS-FM:FASOCC@BPM '14, Eindhoven, NL; ECAI '14 (Keynote for Frontiers of AI), Prague, CZ.
- **On bounded situation calculus**: WS. Formal Methods in AI'17 (Keynote), U. "Federico II", Naples,

IT; TIME'15 (Keynote), Kassel, GE; WS. HYBRIS'15 (Keynote), Potsdam, GE.

- **On Service composition and synthesis**: ICSOC'13 (Invited talk for prize as most influential paper of decade), Berlin, GE; U. Brescia, IT, '12; U. of Toronto Canada, '10; York University, Toronto, Canada, '10; INFINT WS 2009, Bertinoro, IT; MSI '05 Caen, FR.
- **On ontology-based data access and integration**: DL 2013 (Keynote), Ulm, Germany; U. of Toronto, Canada, 2010; Semantic Days Conference 2009, Stavanger, NO; IBM Research Center Watson, Hawthorne, NY, USA 2008.
- **On AI for the general public:** 2020 DIGIC Global AI Challenge, China, online; 2019 Artificial Intelligence Frontier Forum (Keynote) Nanjing, CN; CITUS, Santiago de Compostela 2019. AI Forum, Milano, IT, 2019; Miegunyah Fellow Public Lecture, Melbourne, Australia August 2013.

ORGANIZATION OF CONFERENCES AND WORKSHOPS

He regularly serves as a member of the Program Committee of many international conferences and workshops in CS and AI, including IJCAI ('09, '07, '05, '03, '01, '99, '95), AAAI ('17, '15, '10, '07, '06, '04, '02, '00, '98), KR ('16 '12, '10, '08, '06, '02, '00, '98, '96), ECAI ('16, '10, '08), ICAPS ('15, '11, '09, '08, '07, '06), AAMAS ('13, '12, '02), PODS ('17*, '15, '13, '11, '10, '09*, '08, '07, '03, '02, '00 - *PODS PC), ICDT ('15, '14, '11, '07, '05, '03, '99, '97), BPM ('12, '11, '10). Moreover, he has been:

- **Program Chair** of **ECAI'20** and **KR'14**
- Associate Program Chair of IJCAI'21
- Local organizer of KR'12, KR'21
- Area chair of IJCAI'22, AAAI'22, AAAI'21, AAAI'20, AAAI'19, IJCAI18, AAAI'18, IJCAI'16, AAAI'12, IJCAI'11
- Senior PC of IJCAI'19, AAMAS'19, IJCAI'17, AAAI'16, IJCAI'15, AAAI'13, IJCAI'13, AAAI'11
- Workshops chair of AAAI'11, AAAI'10
- Organizer of 2018 KR Workshop on Reasoning about Actions and Processes: Highlights of Recent Advances; 2003 Int. Workshop on Description Logics (DL'03); and of 1st Cognitive Robotics Workshop at AAAI Fall Symp. (CogRob'98)

MEMBERSHIP OF STEERING COMMITTEES:

2006 – 2009:	Steering Committee of the Description Logics Workshop series
2014 – present:	Steering Committee of KR Inc. organizing the Knowledge Representation and Reasoning Conference series (honorary member since 2018)
2014 – present:	EurAI Fellow Selection Committee
2016 – 2018:	Vice President of the Steering Committee of KR Inc.
2017 – 2019:	AAAI Fellow Selection Committee

EDITORIAL BOARDS

- Journal of Artificial Intelligence Research, Editorial Board Member (2006-2008)
- Journal of Artificial Intelligence Research, Associate Editor (2008-2015)
- Artificial Intelligence, Elsevier, Editorial Board Member (2013-2014)
- Artificial Intelligence, Elsevier, Review Editor (2014-2020)
- CoRR Moderator for Artificial Intelligence (2014-2019)
- Acta Informatica, Springer, Editorial Board Member (2015-present)

ASSOCIATIONS (CURRENT)

- Lifetime Member of the Association for Computer Machinery (ACM)
- Lifetime Member of Association for Advancement of Artificial Intelligence (AAAI)
- Member of the Italian Association for Artificial Intelligence (AI*IA)

TEACHING

Giuseppe De Giacomo has a wide teaching and academic experience. He has taught a large number of **graduate and undergraduate courses** at the University of Rome La Sapienza:

Undergraduate (Laurea in Ingegneria Informatica):

- Foundation of Computer Science: Object-Oriented Programming in C++ (1998-2001, in Italian, 60hours)
- Foundation of Computer Science: Data Structures and Algorithms (1998-2001, in Italian, 60 hours)
- Programming and Computer Graphics for Civil Engineers (2001 in Italian – 60 hours)
- Foundation of Computer Science and Programming in C (2002-2013, in Italian, 60 hours)
- Object-Oriented Design and Programming for Management Engineering (2003-2004, in Italian, 60 hours)
- Programming Techniques (2004-2005, in Italian, 60 hours)
- Databases (2004-2008, in Italian, 60 hours)
- Object-Oriented Design and Programming (2006-current, in Italian, 60 hours)

Graduate (Laurea Magistrale in Ingegneria Informatica)

- Formal Methods (2009-current, in English, 60 hours)
- Elective in Software and Services: Service Integration (2008-2015, in English, 30 hours)
- Business Process Modeling and Analysis (2015-2017, in English, 30 hours)
- Elective in AI: Reasoning Agents (2018-current, in English, 30 hours)

PhD (Dottorato in Ingegneria Informatica – 20 hours each)

- Data Integration (in English)
- Cognitive Robotics and the Situation Calculus (in English)
- Knowledge Representation (in English)
- Service Composition (in English)
- Reasoning about Action and Planning (in English)
- Model Checking (in English)

For all the above courses Giuseppe De Giacomo has designed the content and the syllabus, the teaching material, as well as the course site.

Giuseppe De Giacomo has been consistently rated among the best teachers of the department and his courses have been consistently rated among the most interesting, engaging and well prepared courses in the curriculum in Ingegneria Informatica, both at the Bachelor and MSc level (Sapienza does not collect data on PhD courses).

He also has taught **PhD courses at European summer schools**, including ESSLLI '03 "Description Logics for Conceptual Data Modeling in UML" with Diego Calvanese; ESSLLI'05 "Logic-based Information Integration" with Riccardo Rosati; INFWEST'07 "Temporal Verification and Synthesis of Reactive Systems" with Massimo Mecella, Tampere, Finland. ESSCaSS'18 "Reasoning About Actions: From Automata to LTLf/LDLf Synthesis and Planning", Roosta, Estonia. He has also given several **tutorials at scientific venues** such as: "Service Composition: Technologies, Methods and Tools for Synthesis and Orchestration of Composite Services and Processes" with Massimo Mecella at ICSOC'04; "Basis for Automatic Service Composition" with Massimo Mecella and Daniela Berardi at WWW'05; "Reasoning for Ontology Engineering and Usage" with Diego Calvanese, Matthew Horridge, Ralf Moeller, and Anni-Yasmin Turhan at ISWC'08; "Ontology-based Data Integration" with Claudio Corona and Domenico Fabio Savo at SWAP'08, FAO, Rome, Italy; "Ontology-based Data Integration" with Diego Calvanese at Semantic Days 2009 Conference Stavanger, Norway; "Description Logics for Data Access" with Domenico Lembo at AAAI'10; "Automatic Synthesis & Composition of Agent Behaviors" with Fabio Patrizi and Sebastian Sardina at IJCAI'15; "Methodologies for Ontology Based Data Access Applications" with Domenico Lembo, Antonella Poggi, and Domenico Fabio Savo at IJCAI'16.

SUPERVISION OF YOUNG RESEARCHERS

He supervised a number of **PhD students**, including Daniela Berardi (PhD in 2005, now working in industry), Fabio Patrizi (PhD in 2009, now assistant professor at Sapienza), Riccardo De Masellis (PhD in 2013, now Researcher at UPPSALA University, Sweden) and Paolo Felli (PhD in 2013, PostDoc at U. Nottingham), as well as **PostDocs**. He mentored a number of **early career researchers**, including Sebastian Sardina (now

professor at RMIT, Melbourne), Marco Montali (now associate professor at U. Bolzano, Italy), Stavros Vassos (now funder of the StartUp Helvia.io), and Sasha Rubin (now Senior Lecturer at University of Sydney). Currently he has 5 PhD students and 5 postdocs under his supervision.

INSTITUTIONAL RESPONSIBILITIES

- Scientific Coordinator of the Erasmus Program at the Sapienza Engineering School (2003—2008)
- Director of the PhD Program in Computer Science and Engineering, Sapienza (2011—2014)
- Member of the Department Directorate (Giunta di Dipartimento), Dipartimento di Ingegneria Informatica, Automatica e Gestionale, Sapienza (2016—2019)
- Member of the Department Curriculum Development Committee), Dipartimento di Ingegneria Informatica, Automatica e Gestionale, Sapienza (2016—present)
- Member of the Directorate of National Coordination of the Professors of Computer Engineering (Giunta Estesa GII: Gruppo Ingegneria Informatica (2018 – present)
- Member of the Directing Committee (Comitato Gestore) of the National Lab on Artificial Intelligence & Intelligent Systems, CINI (2018 – 2021)
- Member of the steering committee (Comitato di Indirizzo) for the development of the Italian National PhD in Artificial Intelligence, CNR (2019 – 2021). The National PhD in Artificial Intelligence Program started in June 2021.

Moreover, he has been on the committees to reshape the curricula of the Laurea (Bachelor) and Laurea Magistrale (MSc) in Ingegneria Informatica on several occasions ([L-509 - Ordin. 2000, 2009, L-270 - Ordin. 2010, 2012, 2013, 2014, LM - Ordin. 2013, 2015, 2016, 2019]).

INDUSTRIAL LEADERSHIP

A pioneer industrial project in 2003 with IBM Tivoli Lab highlighted several fundamental limitations in using semantic technologies available at that time for knowledge management. This gave rise to a novel research line that led to a new kind of Description Logic, called DL-Lite, and a new paradigm for accessing data through semantic technologies, called Ontology-based Data Access (OBDA). Since then, the PI led several industrial explorations promoting OBDA for data integration, preparation and discovery, which involved private and public organizations, such as the Monte dei Paschi di Siena Bank, Italian Ministry of Finance and Economics, Telecom Italia, Bloomberg, Italian Automobil Club (current). The success of such explorations has led him to create the Sapienza Start Up **OBDA Systems** (http://www.obdasystems.com) in February 2017. He has been also a Contributor to **W3C recommendation of OWL 2 Web Ontology Language Profiles** (https://www.w3.org/TR/ owl2-profiles/).

Rome, July 30, 2021 *Giuseppe De Giacomo*