

# Prof. Giovanni STILO

Academic Curriculum Vitae  
(September 2025)

## SHORT BIO

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Prof. Dr. Giovanni Stilo is an Associate Professor in the Department of AI, Data, and Decision Sciences at Luiss Guido Carli International University and a Core Faculty member of Luiss Business School, where he serves as Scientific Director of the Major in Applied Artificial Intelligence for Business. Previously, he served as an Associate Professor in the Department of Information Engineering, Computer Science, and Mathematics at the University of L'Aquila, where he also coordinated the Master's Degree Program in Applied Data Science from 2021 to 2025. He obtained his Ph.D. in Computer Science from the University of L'Aquila in April 2013. From 2012 to 2018, he held a research position at Sapienza University of Rome. In 2014, during his postdoctoral fellowship, he was a Visiting Researcher at Yahoo Labs in Barcelona, Spain.

His research interests encompass artificial intelligence, data mining, and machine learning, with a primary focus on addressing real-world problems that require large-scale data processing. His current research areas include, but are not limited to, anomaly detection, computational biology, reinforcement learning, temporal analysis of social networks and social data streams, and social web mining and web information filtering. His earlier work also emphasized information retrieval models, text clustering, and automatic taxonomy generation. In recent years, he has developed a strong interest in the trustworthiness of machine learning and data mining, particularly in areas such as machine unlearning, explainability, bias, and fairness. He has published in prestigious conferences and journals, including AAAI, AIIM, IJCAI, DMKD, JWS, COLI, TREC, and PLOS One. Furthermore, he has actively contributed to organizing top-tier international conferences, such as IEEE ICDM, ECIR, KDD, and CIKM. He also serves as an editor for respected international journals and volumes, including Springer's Information Retrieval Journal, Information Processing & Management, and LNCS volumes.

Throughout his academic career, he has dedicated significant attention to teaching and mentoring, having supervised over 40 national and international theses at the Bachelor's, Master's, and Ph.D. levels. Over the course of more than ten years in academia, he has delivered university-level instruction on ten distinct subjects within the fields of Computer Science and Data Science. His involvement in institutional service has been extensive, and he has actively participated in numerous committees focused on departmental management and academic affairs at each institution where he has been affiliated.

## PART I - GENERAL INFORMATION

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FULL NAME: Giovanni STILO  
CURRENT POSITIONS: Associate Professor - Department of AI, Data and Decision Sciences  
Luiss Guido Carli International University  
Core Faculty - Luiss Business School  
Scientific Director of the Major in Applied Artificial Intelligence  
for Business

## PART II - EDUCATION

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- [APR' 2013] **Ph.D.** in COMPUTER SCIENCE, University of “L’Aquila”  
Ph.D. Thesis: “*Techniques for an Unordered World*”  
Advisor: Prof. Michele FLAMMINI
- [OCT' 2008] **M.Sc.** in COMPUTER SCIENCE, “Tor Vergata” University of Rome  
M.Sc. 110/110 *summa cum laude*  
Thesis: “*Tecniche Efficienti di Information Retrieval per il Trattamento di documenti di Interesse Legale*” | Advisor: Prof. Giorgio GAMBOSI
- [FEB' 2006] **B.Sc.** in COMPUTER SCIENCE, “Tor Vergata” University of Rome  
B.Sc. 110/110 *summa cum laude*  
Thesis: “*Approccio Euristico al Problema del Broadcast ad Energia minima su Reti Disomogenee*” | Advisor: Prof.ssa Miriam DI IANNI

## PART III - APPOINTMENTS

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- IIIA - [1.SEP'T 2025-PRESENT]  
ACADEMIC POSITION: Associate Professor  
INSTITUTION: AI, Data and Decision Sciences Dep., LUISS University  
AREA: Artificial Intelligence, Data Mining and Machine Learning
- [1.SEP'T 2025-PRESENT]  
POSITION: Core Faculty  
INSTITUTION: Luiss Business School S.p.A. SB.  
AREA: Artificial Intelligence, Data Mining and Machine Learning
- [1.SEP'T 2025-PRESENT]  
POSITION: Scientific Director  
PROGRAM: Major in Applied Artificial Intelligence for Business  
INSTITUTION: Luiss Business School S.p.A. SB.  
AREA: Artificial Intelligence, Data Mining and Machine Learning
- [21.DEC'2021-31.AUG'2025]  
POSITION: Associate Professor  
INSTITUTION: Inf. Eng., Computer Sc. and Math. Dep., University of L’Aquila  
AREA: Artificial Intelligence, Data Mining and Machine Learning
- [12.Nov'2021-31.AUG'2025]  
POSITION: Head  
PROGRAM: Master’s Degree course in Applied Data Science  
INSTITUTION: Inf. Eng., Computer Sc. and Math. Dep., University of L’Aquila  
AREA: Degree course in Applied Data Science
- [21.DEC'2018-20.DEC'2021]  
POSITION: Assistant Professor (Tenure T.: RTD-B art.24 c.3 l.A L. 30.12.2010)  
INSTITUTION: Inf. Eng., Computer Sc. and Math. Dep., University of L’Aquila  
AREA: Data Mining and Machine Learning
- [1.JUL'2016-20.DEC'2018]  
POSITION: Assistant Professor (RTD-A art.24 c.3 l.A L. 30.12.2010)

INSTITUTION: Computer Science Dep., "Sapienza" University of Rome  
AREA: Data Mining, Social Network Analysis and Social computing

[2014-2016]

POSITION: Post-doctoral Research Fellow (Ass. di Ric. art.51c.6L.27.12.1997)  
INSTITUTION: Computer Science Dep., "Sapienza" University of Rome  
AREA: Data Mining, Social Network Analysis and Social computing

[MAY'14-Nov'14]

POSITION: Short Term - Visiting Research Fellow  
INSTITUTION: Yahoo Labs, Barcelona, Spain (Web Mining group)  
AREA: Social and Web Mining

[2013]

POSITION: Short Term - Research Fellow  
INSTITUTION: Computer Science Dep., "Sapienza" University of Rome  
AREA: MultiJEDI Project

[APR'12-DEC'12]

POSITION: Short Term - Research Fellow  
INSTITUTION: Computer Science Dep., "Sapienza" University of Rome  
AREA: Big Data Analisys e Data Mining

[2010-2012]

POSITION: Assistant Professor (Short Term)  
INSTITUTION: Faculty of Mathematical, Physical and Natural Sciences,  
"Tor Vergata" University of Rome

[2009-2013]

POSITION: PhD Student  
INSTITUTION: Inf. Eng., Computer Sc. and Math. Dep., University of L'Aquila  
AREA: Text Mining e Data Extraction

IIIB -  
OTHER

[2013-2015]

POSITION: Research contracts  
INSTITUTION: "Pediatric Hospital Bambino Gesù"  
AREA: Mining in e-Health related data

[2009-2012]

POSITION: Applied Research Fellow  
INSTITUTION: Nestor s.c.a.r.l. Laboratory  
AREA: Researcher in the field of Information Retrieval and Document management

[2007-2008]

POSITION: Project related contracts  
INSTITUTION: Ministry of Justice  
AREA: Evaluation of SIDIP and DIGIT projects

## PART IV - TEACHING AND MENTORING EXPERIENCE

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COURSES TAUGHT    *Computational neuroscience and deep learning* (21h/Y, 3 CFU)  
AS A PROFESSOR    Master in Applied Artificial Intelligence for Business,

(HOURS/YEAR)	Luiss Business School
TOTAL 1041H	A. Years: 2025-26
<i>Introduction to artificial intelligence</i> (28h/Y, 4 CFU) Master in Applied Artificial Intelligence for Business, Luiss Business School A. Years: 2025-26	
<i>Artificial Intelligence</i> (36h/Y, 4.5 CFU) M.Sc. in Computer Science, Department of Inf. Eng., Comp. Sc. and Math., University of L'Aquila A. Years: 2023-24-2025	
<i>Deep Neural Networks</i> (48h/Y, 6 CFU) M.Sc. in Computer Science, Department of Inf. Eng., Comp. Sc. and Math., University of L'Aquila A. Years: 2022-23-24-2025	
<i>Data Mining</i> (48h/Y, 6 CFU) M.Sc. in Applied Data Science, Department of Inf. Eng., Comp. Sc. and Math., University of L'Aquila A. Years: 2022-23-24-2025	
<i>Database Systems</i> (48h/Y, 6 CFU) M.Sc. in Applied Data Science, Department of Inf. Eng., Comp. Sc. and Math., University of L'Aquila A. Years: 2021-2022	
<i>Reinforcement Learning (Module of the AI Course)</i> (12h/Y, 1.5 CFU) M.Sc. in Computer Science, Department of Inf. Eng., Comp. Sc. and Math., University of L'Aquila A. Years: 2019-20-21-2022	
<i>Social Mining</i> (48h/Y, 6 CFU) M.Sc. in Applied Data Science, Department of Inf. Eng., Comp. Sc. and Math., University of L'Aquila A. Years: 2019-21-2022	
<i>Data Mining</i> (40h) M.Sc. in Computer Science, Department of Natural, Engineering, and Technology Sciences, <b>Invited</b> by the Arab American University of Palestine A. Years: Summer 2020	
<i>Networks Analysis and Mining</i> (28h) M.Sc. in Computer Science, Faculty of Math. and Comp. Science, <b>Invited</b> by the University of Havana A. Years: 2019-2020	

*Networks* (48h/Y, 6 CFU)  
M.Sc. in Applied Data Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L'Aquila  
A. Years: 2018-2019

*Social And Behavioral Networks* (60h/Y, 6 CFU)  
M.Sc. in Data Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
A. Years: 2016-17-18-2019

*Web and Social Information Extraction* (16h/Y, 2 CFU)  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
A. Years: 2016-17-18-2019

*Foundations of Computer Science* (32h/Y)  
M.Sc. in Biology and human evolution,  
Faculty of Mathematical, Physical and Natural Sciences,  
“Tor Vergata” University of Rome  
A. Years: 2009-10-11-2012

COURSES TAUGHT AS A ASSISTANT  
TOTAL 64 HOURS      *Web and Social Information Extraction* (16h/Y, Laboratory classes)  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
A. Years: 2013-14-15-2016

*Programming Methodologies* (8h/Y)  
B.Sc. in Computer Science,  
Faculty of Mathematical, Physical and Natural Sciences,  
“Tor Vergata” University of Rome  
A. Years: 2006-07-2008

PH.D.S  
MENTORING  
ONGOING      FRANCESCA CICCARELLI [Early 2029<sup>1</sup>]  
*Proposal on: Efficient Algorithms and Frameworks for Machine Unlearning in Large-Scale Systems*  
Ph.D. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L'Aquila

DANIELE FOSSEMÒ [Early 2029]  
*Proposal on: Enhancing Interpretability of Deep Learning Models Through Prototypical Representations*  
Ph.D. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L'Aquila

GIUSEPPE COSTANZO [Early 2029]  
*Proposal on: LLM for Graphs structured data*

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<sup>1</sup>From here on are: Expected Graduation date

Co-Advised with Prof. Francesco Gullo  
Ph.D. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L'Aquila

MAKSIM SHCHUKIN [Late 2029]  
*Solving complex sustainability problems in water and energy with low-code solutions by bridging the gap between people and data*  
Co-Advised with Prof. Dr. Annika Wolff, Doc. Dr. Damian Kedziora  
Ph.D. in Software Engineering,  
School of Engineering Sciences,  
Lappeenranta-Lahti University of Technology LUT

ANDREA D'ANGELO [Early 2026]  
*Trustworthy AI Through Principled Advances in Machine Unlearning, Algorithmic Bias Mitigation, and Explainability*  
Ph.D. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L'Aquila

GRADUATED                    MARIO ALFONSO PRADO-ROMERO [Early 2025<sup>2</sup>]  
*Counterfactual Explainability in Graphs: Foundations, Generative Methods, and Ensemble Techniques*  
Ph.D. in Computer Science,  
Gran Sasso Science Institute,

GIORDANO D'ALOISIO [Early 2025]  
*Engineering Fair and Efficient Learning-Based Software Systems*  
Co-Advised with Prof. Antinisca Di Marco  
Ph.D. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L'Aquila

HAMED SARVARI [Late 2023]  
*Ensembles Techniques for Outlier Detection*  
Co-Advised with Prof. Carlotta Domeniconi  
Ph.D. in Computer Science,  
Department of Computer Science,  
The Volgenau School of IT & Engineering,  
George Mason University, Fairfax, Virginia, U.S.A

BARDH PRENKAJ [Early 2022]  
*Latent Deep Sequential Learning of Behavioural Sequences*  
Co-Advised with Prof. Paola Velardi  
Ph.D. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome

LORENZO MADEDDU [Mid 2022]  
*Machine Learning Methods for Extracting Medical Knowledge from the Human Interactome*  
Co-Advised with Prof. Paola Velardi  
Ph.D. in Computer Science in Medicine,

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<sup>2</sup>From here on are: Already Graduated

Medical School Department,  
“Sapienza” University of Rome

GIORGIA DI TOMMASO [Late 2019]  
*Semantics-Aware method for multi-domain entity Recommenders*  
Co-Advised with Prof. Paola Velardi  
Ph.D. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome

JOSE CAMACHO COLLADOS [Early 2018]  
*Semantic Vector Representations of Word Senses,  
Concepts and Entities and their Applications in NLP*  
Ph.D. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome

GRADUATED  
MENTORED  
  
BSC AND MSc  
STUDENTS

SAMUELE RAMASSONE [Mar. 2025<sup>2</sup>]  
*Beyond the Systematic Evaluation of Large Language Models: From  
Theory to Practical Analysis of Results*  
M.Sc. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L’Aquila

GABRIELE TAGLIENTE [Mar. 2025]  
*From ERASURE to Evaluation of Machine Unlearning Techniques*  
M.Sc. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L’Aquila

FABIO D’ANDREAMATTEO [Mar. 2025]  
*HybridKAN: Leveraging Multi-Sized Sub-MLPs for Enhanced  
Performances*  
M.Sc. in Applied Data Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L’Aquila

MATTEO IEZZI [Mar. 2025]  
*Recent Advances in Chain-of-Thought Prompting: Current Trends and  
Automation Approaches*  
M.Sc. in Applied Data Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L’Aquila

MATTIA MASCI [Mar. 2024<sup>2</sup>]  
*Fast Learning for Deep Neural Networks through Casual Freezing*  
M.Sc. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,  
University of L’Aquila

DIANA DI MARCO [Oct. 2023]  
*Data-driven Analysis of career progression in the Italian Academic  
Landscape*  
M.Sc. in Computer Science,  
Department of Inf. Eng., Comp. Sc. and Math.,

University of L'Aquila

ANDREA D'ANGELO [Oct. 2022]

*Clouds of vectors for density-based Information Retrieval*

M.Sc. in Computer Science,

Department of Inf. Eng., Comp. Sc. and Math.,

University of L'Aquila

RABEE ADEL QASEM [Early 2022]

*Using Deep Reinforcement Learning model to design Sustainable Mobility Infrastructure*

M.Sc. in Data Science ,

Department of Natural, Engineering, and Technology Sciences,

Arab American University of Palestine

ABDELRAHMAN SALAMEH [Early 2022]

*Neural networks based solution to enhance e-wallet customers prediction at telecommunication companies.*

M.Sc. in Data Science ,

Department of Natural, Engineering, and Technology Sciences,

Arab American University of Palestine

LOAI BITAWI [Early 2022]

*Density-Based Approach for Information Retrieval Documents Ranking in Embedding Space*

M.Sc. in Data Science ,

Department of Natural, Engineering, and Technology Sciences,

Arab American University of Palestine

BENEDETTA FLAMMINI [Mid 2021]

*A Reinforcement Learning approach to Anomaly Detection in Temporal Graphs*

M.Sc. in Applied Data Science,

Department of Inf. Eng., Comp. Sc. and Math.,

University of L'Aquila

GIORDANO D'ALOISIO [Mid 2021]

*Approach to design Data Science Pipeline with High Quality*

M.Sc. in Computer Science ,

Department of Inf. Eng., Comp. Sc. and Math.,

University of L'Aquila

Co-Advised with Prof. Antinisca Di Marco

MANUEL DI PIETRO [Late 2019]

*Solving the cold start problem using GAN in the Geomarketing context*

M.Sc. in Computer Science,

Department of Inf. Eng., Comp. Sc. and Math.,

University of L'Aquila

CECILIA MARTINEZ OLIVA [Early 2019]

*Embeddings techniques for semantic clustering of a Twixonomy*

M.Sc. in Data Science ,

Faculty of Information Engineering , Informatics and Statistics,

“Sapienza” University of Rome

GABRIELE AVELLINO [Early 2019]  
*Ranking of topics in a Large Scale System*  
M.Sc. in Data Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome

MATTEO URISELLI [Early 2019]  
*Predict the Future of Patients from the Electronic Health Records*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

ANDREA LORINO [Late 2018]  
*The impact of the cold start problem in a semantic recommender system*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

ANDREA LENZI [Late 2018]  
*Understanding patients health from social website signals*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

BARDH PRENKAJ [Late 2018]  
*Time-Aware Topic Detection and Anomaly Classification in a Multi-Layer Network*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

LORENZO MADEDDU [Late 2018]  
*Disease Prediction in Biological Networks*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

CARLO SPATOCCO [Late 2017]  
*Continuity of perturbed principal eigenvectors in Perron-Frobenius theory*  
M.Sc. in Mathematics, Faculty of Mathematics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Alessandro D’Andrea

PIERFABIO SANNA [Mid 2017]  
*A tool for the visualization of Semantic Users’ Interest*  
B.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

VALENTINA PIZZO [Early 2017]  
*Analyzing Italian users' Interests in Medical Domain*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

MANUELA BENEDETTI [Early 2017]  
*'Behaviors of Pregnant Women in On-Line Social Media*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

BARDH PRENKAJ [Early 2017]  
*Automatic Information Extraction in News Media Domain*  
B.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

GIORGIA DI TOMMASO [Oct. 2015]  
*Design and Development of a Platform for Leadership Analysis in Enterprise Social Networks*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

CLAUDIO RAUSO [Mar. 2015]  
*Geographic profiling of Twitter users*  
M.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

GIULIO DE STEFANO [Jun. 2014]  
*Efficient Crawling Techniques or Online Community Networks*  
B.Sc. in Computer Science,  
Faculty of Information Engineering, Informatics and Statistics,  
“Sapienza” University of Rome  
Co-Advised with Prof. Paola Velardi

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## PART V - COMMITTEES, QUALIFICATION, HONORS AND AWARDS

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Head                    Elected as the **Head of the Master's Degree** course in Applied Data Science of the Department of Inf. Eng., Comp. Sc. and Math. of the University of L'Aquila, for 2021/2024 and already renewed for 2024/2027.

Garante Privacy	Winner of the <b>comparative procedure</b> for the awarding of contracts lasting twenty-four months to consultants under a freelance regime in the field of <b>Artificial Intelligence for the Italian Data Protection Authority (GPDP)</b> . <a href="#">Avviso Pubblico</a>
Qualification	National Scientific Qualification - Scientific Sector <b>09/H1 - comp.-eng. - Full Professor</b> - Sixth Quarter - Qualified from 17/12/2023 to 17/12/2034.
Qualification	National Scientific Qualification - Scientific Sector <b>01/B1 - comp.-science - Associate Prof.</b> - Second Quarter - Qualified from 11/09/2019 to 11/09/2028.
Qualification	National Scientific Qualification - Scientific Sector <b>09/H1 - comp.-eng. - Associate Prof.</b> - Second Quarter - Qualified from 09/09/2019 to 09/09/2028.
Committee	Member of the <b>Electoral Committee</b> of one faculty representative from the Department of Engineering, Information Sciences, and Mathematics in the Academic Senate for 2024-2027.
Committee	Committee for the <b>Research Infrastructures (HPC and Big Data)</b> of Department of Inf. Eng., Comp. Sc. and Math. of University of L'Aquila, 2021/2024.
Committee	Committee for <b>Teaching and Research Laboratories</b> of Department of Inf. Eng., Comp. Sc. and Math. of University of L'Aquila, 2021/2024.
Committee	Committee for [CAD] of the Degree of <b>Applied Data Science</b> of University of L'Aquila 2018/2023.
Committee	Committee for [CAD] the Degree of <b>Computer Science</b> of University of L'Aquila 2019/2023.
Committee	Committee for [CAD] of the Degree of <b>Computer Engineering</b> of University of L'Aquila 2022/2023.
Committee	Committee for [CAD] of the Degree of <b>Automation engineering</b> of University of L'Aquila 2022/2023.
Committee	In 2024/2025 he is <i>Part of the Committee of the 40<sup>th</sup> Ph.D. Program in</i> Engineering and Information Sciences, Department of Inf. Eng., Comp. Sc. and Math. of University of L'Aquila.
Committee	In 2023/2024 he is <i>Part of the Committee of the 39<sup>th</sup> Ph.D. Program in</i> Engineering and Information Sciences, Department of Inf. Eng., Comp. Sc. and Math. of University of L'Aquila.
Committee	In 2022/2023 he is <i>Part of the Committee of the 38<sup>th</sup> Ph.D. Program in</i> Engineering and Information Sciences, Department of Inf. Eng., Comp. Sc. and Math. of University of L'Aquila.
Committee	In 2020/2021 he was <i>Part of the Committee of the 36<sup>th</sup> Ph.D. Program in</i> Innovative Biomedical Technologies in Clinical Medicine, Medical Dep., "Sapienza" University of Rome.

Committee	In 2019/2020 he was <i>Part of the Committee of the 35<sup>th</sup> Ph.D. Program in Innovative Biomedical Technologies in Clinical Medicine, Medical Dep., “Sapienza” University of Rome.</i>
Committee	In 2018/2019 he was <i>Part of the Committee of the 34<sup>th</sup> Ph.D. Program in Innovative Biomedical Technologies in Clinical Medicine, Medical Dep., “Sapienza” University of Rome.</i>
Committee	In 2017/2018 he was <i>Part of the Committee of the 33<sup>th</sup> Ph.D. Program in Innovative Biomedical Technologies in Clinical Medicine, Medical Dep., “Sapienza” University of Rome.</i>
Committee	Committee responsible of analyse and reshaping the Master Degree of Computer Science of University of L'Aquila work conducted in 2020/2021 with special focus on AI.
Committee	Working group for the analysis of the CENSIS results - Master and Bachelor Degree of Computer Science of University of L'Aquila 2020/2021.
Committee	Committee for the evaluation of the international students' admissions - Master Degree of Applied Data Science of University of L'Aquila 2020/2023.
Committee	Evaluating Committee for the international students' scholarships - University of L'Aquila 2020/2022.
Committee	Evaluating Committee for the refugee students' scholarships - UNICORE 2.0 - University of L'Aquila 2020/2021.
Committee	Committee for the evaluation of the students participating at TOLC@CASA (High-School to University access) (August, September, November)- University of L'Aquila 2020/2023.
Tutor	Academic tutor of the refugee student (Name Omitted for Privacy Concern) - UNICORE 2.0 - Master Degree of Applied Data Science of University of L'Aquila.
Membership	<i>Tutor of the first edition of course for lifelong learning/training for young incoming teachers</i> promoted by Gruppo di Lavoro Qualita' e Innovazione della Didattica (GdL QuID), “Sapienza” University of Rome.
Membership	<i>Involved in the experimentation phase for lifelong learning/training for young incoming teachers</i> promoted by Gruppo di Lavoro Qualita' e Innovazione della Didattica (GdL QuID), “Sapienza” University of Rome.
Membership	<i>Institute of Electrical and Electronics Engineers (IEEE)</i> . Full member (2016 - present).
Best Student Paper Awards	G. Di Tommaso, G. Stilo and P. Velardi, <i>Detecting Network Leaders in Enterprises</i> 2017 IEEE 21st International Conference on Computer Supported Cooperative Work in Design, 26 Apr - 28 Apr 2017, Wellington, New Zealand [56].
Special Recognition	as <b>Senior</b> Program Committees at <i>The 33rd ACM International Conference on Information and Knowledge Management</i> , October 21 – 25 2024, Boise, Idaho, USA. <a href="https://cikm2024.org/best-paper-awards/">https://cikm2024.org/best-paper-awards/</a>

Award	Giovanni Stilo was featured in the list of “ <i>500 Italians Who Matter in Artificial Intelligence</i> ” by Repubblica (2024), highlighting his contributions to AI research and education in Italy. <a href="https://rb.gy/hp42p2">https://rb.gy/hp42p2</a>
Award	“ <i>Fondo per le attivita’ base di ricerca</i> ” promoted by Consiglio Direttivo n.87 del 14 giugno 2017 dell’ Agenzia Nazionale di Valutazione del sistema Universitario e della Ricerca. FOUNDED: 3.000,00, 2017
Award	Degree Award announced by Confindustria and A.I.C.A. to promote best works in I.C.T. field of research, Milano, Italy. 2009.
Honor	Officially included by the Ministry of Cultural Heritage and Activities and Tourism, in the list of experts eligible to advice on “Development and management of Computer applications , Computer management of documents and processes and the application of innovative technologies for the public use of cataloging and photographic collections”. 2011-2013
TREC Challenge	Second position during the Text REtrieval Conference (TREC) Legal Track, organized by National Institute of Standards and Technology, Gaithersburg, Maryland, United States. TREC is the most important forum to compare challenging solutions in Information Retrieval since the past 16 years, 2008.

## PART VI - INVOLVEMENT IN FUNDED PROJECTS

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SBDATA PNRR	<p><b>SoBigData.it PNRR:</b> STRENGTHENING THE ITALIAN RI FOR SOCIAL MINING AND BIG DATA ANALYTICS - This work is supported by the PNRR of Ministero dell’Università e della Ricerca  <a href="https://www.esfri.eu/latest-esfri-news/new-ris-roadmap-2021">https://www.esfri.eu/latest-esfri-news/new-ris-roadmap-2021</a>  DURATION: 1 November 2022 - 30 November 2025  FOUNDED: € 19.998.550  POSITION: Coordinator at National Level of WP5 and coordinator for University of L’Aquila of WP1;  RESPONSIBILITIES: The project supports the expansion at the Italian level of the computational nodes of SoBigData++. Specifically, I am responsible of WP1 - Empowering the Digital Backbone for the University of L’Aquila which aims to empower and create the computational nodes of SoBigData at the Italian level through data centers connected to the RI network. Moreover, I am coordinating at national level the WP5 - Responsible Data Science and Training which proposes different objectives related to the promotion and diffusion of data science as the enforcement of the connection with Master Degrees, Professional Master (after degree), PhD programs and other training initiatives to cultivate a new generation of data scientists (also promoting diversity and inclusion in data science).</p>
SBDATA PPP	<p><b>SoBigData RI PPP:</b> SOBIGDATA RI PREPARATORY PHASE PROJECT - This work is supported by ESFRI - European Strategy Forum on Research Infrastructures  <a href="https://www.esfri.eu/latest-esfri-news/new-ris-roadmap-2021">https://www.esfri.eu/latest-esfri-news/new-ris-roadmap-2021</a>  DURATION: 1 October 2022 - 1 November 2025  FOUNDED: € 3.555.765,00  POSITION: UAQ Coordinator for WP4 and WP8;  RESPONSIBILITIES: The project supports SoBigData to fulfil the ESFRI preparation phase objectives. Specifically, WP4 is dedicated to organizing</p>

the Strategy and the Impact while WP8 is dedicated to the organization of the Central Hub.

#### ICSC PNRR

**ICSC PNRR:** CENTRO NAZIONALE DI RICERCA IN HIGH PERFORMANCE COMPUTING, BIG DATA E QUANTUM COMPUTING - This work is supported by the PNRR of Ministero dell'Università e della Ricerca

<https://www.supercomputing-icsc.it>

DURATION: 1 September 2022 - 31 August 2025

POSITION: **Participants**

RESPONSIBILITIES: Involved in the activities of the Spoke 5. Spoke 5 focuses on developing methods for monitoring artificial structures and natural environments to mitigate risks from deterioration. Using the National Center's computational power, it will create "digital twins," virtual models to predict behavior in response to natural disasters or environmental changes. This multidisciplinary team spans fields such as advanced computing, earth sciences, and civil engineering, with the goal of delivering impactful environmental monitoring solutions for societal benefit.

#### VIT. PNRR

**VITALITY PNRR:** ECOSISTEMA DI INNOVAZIONE, DIGITALIZZAZIONE E SOSTENIBILITÀ PER L'ECONOMIA DIFFUSA NELL'ITALIA CENTRALE

This work is supported by the PNRR of Ministero dell'Università e della Ricerca

<https://fondazionevitality.it>

DURATION: 1 September 2022 - 31 August 2025

POSITION: **Participants**

RESPONSIBILITIES: Involved in the activities of the project. VITALITY is an Innovation Ecosystem funded by the Ministry of University and Research through the PNRR. It involves universities, research institutes, and private entities from Abruzzo, Marche, and Umbria, focusing on research promotion, technology transfer, and digital transformation with a focus on sustainability and social impact.

#### FAIR-EDU

**FAIR-EDU:** PROMOTE FAIRNESS IN EDUCATION INSTITUTIONS" - This research project is admitted for funding on the basis of competitive tenders that provide for peer review at the University of L'Aquila

DURATION: 1 June 2022 - 31 December 2022

FOUNDED: € 10.000,00

POSITION: **Proposer and PI;**

RESPONSIBILITIES: The project aims to evaluate the algorithmic bias present in the staff-related data generated and used by the University of L'Aquila (UAQ). We identified several research questions that will be answered in four interleaved phases carried on with the support of the Working Group of the Gender Equality Plan and the IT staff of UAQ.

#### EUGAIN

**EUGAIN:** EUROPEAN NETWORK FOR GENDER BALANCE IN INFORMATICS - This work is supported by The European Cooperation in Science and Technology - COST Action CA19122.

<https://www.cost.eu/actions/CA19122/>

DURATION: 10 October 2018 - 18 October 2024

POSITION: **Participant;**

RESPONSIBILITIES: The main aim of this COST Action is to improve gender balance in Informatics through the creation and strengthening of a truly multi-cultural European network of academics working on the

forefront of the efforts in their countries, institutions and research communities.

#### LIFEMAP

**LIFEMAP PROJECT**, "FROM PEDIATRIC PATHOLOGY TO CARDIOVASCULAR AND NEOPLASTIC DISEASES IN ADULTS: GENOMIC MAPPING FOR PERSONALIZED MEDICINE AND PREVENTION," UNDER TRAJECTORY 3 OF THE MINISTRY OF HEALTH'S OPERATIONAL HEALTH PLAN.

[HTTPS://WWW.THELIFEMAP.IT/](https://www.thelifemap.it/)

DURATION: 13 FEBRUARY 2022 - 13 FEBRUARY 2027

FOUNDED: € ~5.400.000,00

POSITION: **Coordinator responsible of the Artificial Intelligence-based Analisys until July 2024.;**

RESPONSIBILITIES: The project aims to identify early risk factors for severe adult diseases by analyzing pediatric conditions and genetic profiles. It will integrate genomic and phenotypic data into a federated database and employ AI to analyze clinical, genomic, and environmental data. As the coordinator responsible for the AI analysis, I have provided guidance and strategic direction up to July 2024, establishing foundational elements and defining the future roadmap in collaboration with the project's diverse participants.

#### SBDATA++

**SoBigData++: EUROPEAN INTEGRATED INFRASTRUCTURE FOR SOCIAL MINING AND BIG DATA ANALYTICS** - This work is supported by European Union's Horizon 2020 research and innovation programme under grant agreements No. 871042,

<https://plusplus.sobigdata.eu/>

DURATION: 1 January 2020 - 31 December 2024

FOUNDED: € 9.997.172,50

POSITION: **Participant in WP10;**

RESPONSIBILITIES: Working on the *City of Citizen* Exploratory. The work is focused on several methods and KPIs dedicated to cities, citizens and territories. With special attention to the reconstruction-related problems of the urban area of L'Aquila.

#### TERRITORI APERTI

**Territori Aperti: DOCUMENTATION, TRAINING AND RESEARCH CENTER FOR THE RECONSTRUCTION AND RECOVERY OF AFFECTED AREAS FROM NATURAL DISASTERS** - This work is supported by Fondo Territori Lavoro e Conoscenza di Cgil, Cisl, Uil.

<https://territoriaperti.univaq.it/>

DURATION: 17 December 2018 - 17 December 2024

FOUNDED: € 1.800,00

POSITION: **P.I. of New tech. for data processing and analysis;**

RESPONSIBILITIES: study and identifying Data Mining and machine Learning techniques that can be applied to the processes of reconstruction and development.

#### DIGFORASP

**DIGital FORensics: EVIDENCE ANALYSIS VIA INTELLIGENT SYSTEMS AND PRACTICES** - This work is supported by The European Cooperation in Science and Technology - COST Action CA17124.

<https://www.cost.eu/actions/CA17124/>

DURATION: 10 September 2018 - 09 September 2022

POSITION: **Participant;**

RESPONSIBILITIES: exploring the potential of the application of Artificial

Intelligence and Automated Reasoning in the Digital Forensics field, and creating synergies between these fields.

ELEXIS

**ELEXIS:** EUROPEAN LEXICOGRAPHIC INFRASTRUCTURE - This work is supported by e-Infrastructures H2020-EU.1.4.1.2.,  
[https://cordis.europa.eu/project/rcn/213379\\_en.html](https://cordis.europa.eu/project/rcn/213379_en.html)  
DURATION: 1 February 2018 - 31 January 2022  
FOUNDED: € 4.999.967,50 (€ 453.750,00 to partner Sapienza)  
POSITION: **Participant;**  
RESPONSIBILITIES: Definition of the metrics needed to compute analytics for words, senses, domains and other lexical-semantic information (including phrases, collocations, etc.) across the analyzed lexical resources.

SERENA

**SERENA:** SEMANTIC RECOMMENDER FOR ALL - This work is supported by IBM faculty Award 2017.  
DURATION: 1 January 2017 - 31 December 2017  
FOUNDED: € 15.000,00 to Computer Science Department.  
POSITION: **Participant;**  
RESPONSIBILITIES: Definition and implementation of algorithms oriented to the extraction of the semantic information from the users' profiles.

FIORDALISO

**Fiordaliso:** ANALYSIS OF SOCIAL BEHAVIORS OF CO-WORKERS IN ON-LINE ENTERPRISE SOCIAL NETWORKS. - This work is supported by Regione Lazio (Italy), under grant: POR. FESR. 2007/2013 CUP. F88C14000460007.  
DURATION: 1 November 2014 - 31 October 2015  
FOUNDED: € 150.000,00 to Computer Science Department.  
POSITION: **WP Coordinator;**  
RESPONSIBILITIES: Coordinator of the investigation related to definition and creation of a social network analytics framework that extensively analyzes the social behaviors in ESNs as a function of gender, role, time, and competences of co-workers.

GAME4Bio

**Game4Bio:** SERIOUS GAMING FOR BIODIVERSITY PRESERVATION IN FOOD AND AGRICULTURE. - This work is supported by "Sapienza" University of Rome, under grant: Interdisciplinary Research Project 2015.  
DURATION: 1 January 2015 - 31 December 2015  
FOUNDED: € 22.000,00 to Computer Science Department.  
POSITION: **Participant;**  
RESPONSIBILITIES: Designing of a gamified storytelling component focused on a geo-referenced platform dedicated to the eno-gastronomic sector in the area of à the via Francigena.

WESOCIAL

**WeSocial:** WOMEN AND SOCIAL LEADERSHIP. - This work is supported by "Sapienza" University of Rome, under grant: AWARDS Research Project 2014.  
DURATION: 1 January 2014 - 31 December 2014  
FOUNDED: € 53.000,00 to Computer Science Department.  
POSITION: **Technical Leader;**  
RESPONSIBILITIES: Definition and implementation of a measure of informal leadership which draws on leadership models in organization science and on a computational model based on multiplex networks.

HC4A (I)	<p><b>HC4A:</b> HOME CARE FOR ALL. - This work is supported by Regione Lazio (Italy), under grant: POR. FESR. 2007/2013 CUP. F81I14000020007.</p> <p>DURATION: 1 January 2013 - 4 March 2014</p> <p>FOUNDED: € 25.000,00 to Computer Science Department.</p> <p>POSITION: <b>Participant;</b></p> <p>RESPONSIBILITIES: Development support for methodologies for semantic indexing, question answering and construction of ontologies in the sanitary field.</p>
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## Technology Transfer

ERASURE (PI)	<p>ERASURE is a comprehensive research framework for selective machine unlearning, enabling targeted removal of data from trained models to uphold privacy and compliance. It offers extensible unlearner modules, dataset integration, unified evaluation metrics, and experiment orchestration, allowing researchers to systematically benchmark and compare unlearning techniques.</p> <p><a href="https://github.com/aim-research/ERASURE">https://github.com/aim-research/ERASURE</a></p>
GRETEL (PI)	<p>GRETEL is an open-source framework for Evaluating Graph Counterfactual Explanations Methods. It uses the Object Oriented paradigm and the Factory Method design pattern. Our main goal is to create a generic platform that allows the researchers to speed up the process of developing and testing new Graph Counterfactual Explanations Methods.</p> <p><a href="https://github.com/aim-research/GRETEL">https://github.com/aim-research/GRETEL</a></p>
G (PI)	<p>Fast and Memory Efficient Graph Library for Graph Mining in Java. Manage Weighted Direct,/Undirect Graph also with weights on Vertices. Many algorithms ready to use as PageRank, HITS and many others. Concurrent Multithread algorithms configurable on demand.</p> <p>Giovanni Stilo is the founder of the <b>G</b> library.</p> <p><a href="https://github.com/giovanni-stilo/G">https://github.com/giovanni-stilo/G</a></p>
uCRAWLER (PI)	<p>Universal Crawler (uCrawler) is a Concurrent, Distributed, Highly Configurable, and Flexible Next Generation Crawler. <b>uCrawler</b> allows to define a specialized crawler directly through configuration files. Principal features are: web pages, rest services, extendable, concurrent, distributed, flexible, efficient.</p> <p>Giovanni Stilo is the founder of the <b>uCrawler</b> echo-system.</p> <p><a href="https://github.com/giovanni-stilo/uCrawler-Core">https://github.com/giovanni-stilo/uCrawler-Core</a></p>
TERRIER IR (I)	<p>Terrier is a highly flexible, efficient, and effective open source search engine developed at the School of Computing Science, University of Glasgow. Terrier is readily deployable on large-scale collections of documents. Terrier implements state-of-the-art indexing and retrieval functionalities, and provides an ideal platform for the rapid development and evaluation of large-scale retrieval applications.</p> <p>Giovanni Stilo has contributed to identifying and solving several issues.</p> <p><a href="http://terrier.org/">http://terrier.org/</a></p>

## PART VII - RESEARCH ACTIVITIES

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### International Collaborations, Visiting, and Cooperation Agreements

COLLABORATION AGREEMENT AND RESULTS      **CLAIRE - Confederation of Laboratories for Artificial Intelligence Research in Europe** - International collaboration focused on: Bioinformatics (protein and molecular data analysis).

The topic joins forces from AI, clinical and life-sciences experts working on the analysis of complex and multi-sourced biomedical data integrating clinical evidence on COVID-19 with genomic and proteomic information, as well as molecular data. We are exploring data-driven AI methodologies and bioinformatics approaches covering network data analysis, machine learning and deep learning for graphs, predictive modelling, and feature selection of Omics data. <https://covid19.claire-ai.org/>

**Data Mining and Machine Learning Laboratory**, leaded by Prof.ssa Carlotta Domeniconi of Department of Computer Science at George Mason University, Fairfax, Virginia, USA. The scope of the collaboration is oriented in research activities focused on anomaly detection, social network and social media mining, and multiplex networks. 01/01/2017 - ongoing. We published *Graph-based Selective Outlier Ensembles*[52] and we are collaborating on the paper entitled *A Configurable Methodology for Centrality Measures in Multiplex Networks with Cyclic Dependencies*.

**Data Science and Big Data Analytics research group**, coordinated by Dr. Ludovico Boratto - Eurecat Foundation, Barcellona, Spain. Collaboration activities focused on organisation of workshop and journal's special issue, and on research in the field of "social media for personalization and search technologies". 01/01/2016 - 01/07/2023. Organised Workshops [**BIAS'2020, SoMePeAAS '19, SIR'18, SoAPS '18, SERecSys '17, SoMePeAAS '17, SERecSys '16**], Journal [**SoMePeAS-IRJ**] and a Volume [**SoAPS-LNCS**] have been organized during this collaboration. See at "Scientific Community Service" section for a detailed description of editorial activities and workshop organization.

**Yahoo!** Academic Research Program Agreement - Between Dr. Giovanni Stilo and Yahoo! Inc., 701 First Avenue Sunnyvale CA 94089 - Agreement focused on research activities in the field of Event detection and discovery in Yahoo! query logs. 15/11/2014 - 15/11/2015. The outcome of this collaboration are the papers entitled *Importance of Unexpectedness: Discovering Buzzing Stories in Anomalous Temporal Graphs* [19] and *Identifying Buzzing Stories via Anomalous Temporal Subgraph Discovery* [57] that are in the field of the event/topic discovery.

**Linguistic Computing Laboratory (LCL)**, leaded by leaded Prof. Paola Velardi and Prof. Roberto Navigli, Rome, Italy. The scope of the collaboration is oriented in research activities focused on event discovery, users' profiling, semantic recommender system, temporal mining, e-Health and social network analysis. 1/05/2012 - 01/03/2020. Several results were achieved during this collaboration. Here after are cited only the most important:[53, 20, 54, 21, 22, 55, 24, 59, 26, 27, 28].

**Arab American University of Palestine (AAUP)**, from July 1 to September 15, 2020, an adjunct role at the Arab American University of Palestine involved teaching a 40-hour Data Mining course, covering techniques like pattern mining, cluster analysis, and social network analysis. Following this, from October 31, 2020, to March 1, 2022, supervision of three master's students in Data Science was conducted, focusing on projects in deep reinforcement learning for mobility infrastructure, neural networks for e-wallet customer prediction, and density-based document ranking.

VISITING

**Technical University of Munich**, hosted by Prof. Gjergji Kasneci, Chair of Responsible Data Science at the Technical University of Munich. Visiting Professor for the collaboration focused on Responsible and Trustworthy AI. 09/07/2024 - 12/07/2024

**University of Havana**, hosted by Prof. Alberto Fernandez Oliva, of the Faculty of Math. and Comp. Science Havana, Cuba. Visiting Professor for the collaboration focused on Topic detection and discovery in new logs. 13/12/2019 - 20/01/2020

**Yahoo! Research Labs**, leaded by Prof. Ricardo Baeza-Yates , Barcelona, Spain. Visiting Researcher for the collaboration focused on Event detection and discovery in query logs. 19/05/2014 - 18/10/2014

INTERNATIONAL  
COOPERATIONS  
AGREEMENTS

Responsible for the International Cooperation Agreement between the **University of Havana, Cuba**, and the **University of L'Aquila**. Established in 2013 - Renewed in March 2024. Visiting Students under my supervision over the years: Alejandra Monzón University of Havana 2025, Manuel Vilas University of Havana 2025, Rodrigo García University of Havana 2024, Leynier Gutierrez University of Havana 2024, Hiram Borbolla Hernández 2023, Yeneit Delgado Kios 2023, Roberto Martí Cedeño 2023, Ernesto Luis Estevanell Valladares 2022, Daniel Alejandro Valdés Pérez 2022, Carlos Fleitas Aparicio 2021, Mario Alfonso Prado-Romero 2020, Juan Pablo Consuegra Ayala 2019.

Responsible for the International Cooperation Agreement between the **George Mason University, Fairfax, VA 22030, United States**, and the **University of L'Aquila**. Established in March 2023.

## Scientific Community Service

EDITORIAL  
ACTIVITY

[**KAIS ASOCIATE ED**]. Associate Editor since 2025 for *Knowledge and Information Systems*, published by Springer  
<https://link.springer.com/journal/10115/editorial-board>

[**DELTA '25**] Volume on *Discovering Drift Phenomena in Evolving Landscapes*, published by Springer in the series Lecture Notes in Computer Science (**LNCS** volume 15013), edited by M. Piangerelli, B. Prenkaj, Y. Rotalinti, A. Joshi, G. Stilo; Conference proceedings, 2025  
[10.1007/978-3-031-82346-6](https://doi.org/10.1007/978-3-031-82346-6)

[**BIAS-CCIS '22**] Conference proceedings on *Advances in Bias and Fair-*

*ness in Information Retrieval*, published by Springer in the series Communications in Computer and Information Science (**CCIS**), volume 1610, 2022, edited with Dr. L. Boratto, Dr. S. Faralli, and Dr. M. Marras.  
<https://link.springer.com/book/10.1007/978-3-031-09316-6>

[**ECML/PKDD '21**] guest editorial board of the ECML/PKDD 2020/2021 journal track.

[**BIAS-IPM '21**] Special Issue on *Algorithmic Bias and Fairness in Search and Recommendation*, Volume 59 , Issue 1 Jan 2022, published by Elsevier in Information Processing & Management Journal (**IPM**), edited with with Dr. Ludovico Boratto, Dr. Stefano Faralli, and Mirko Marras. 2020-2021

<http://shorturl.at/bfQR3>

[**BIAS-CCIS '21**] Conference proceedings on *Advances in Bias and Fairness in Information Retrieval*, published by Springer in the series Communications in Computer and Information Science (**CCIS**), volume 1418, 2021, edited with with Dr. Ludovico Boratto, Dr. Stefano Faralli, and Mirko Marras.

[**BIAS-CCIS '20**] Conference proceedings on *Bias and Social Aspects in Search and Recommendation*, published by Springer in the series Communications in Computer and Information Science (**CCIS**), volume 1245, 2020, edited with with Dr. Ludovico Boratto, Dr. Stefano Faralli, and Mirko Marras.

[**ECML/PKDD '20**] guest editorial board of the ECML/PKDD 2019/2020 journal track.

[**SoAPS-LNCS '19**] Volume on *Social Aspects in Personalization and Search*, published by Springer in the series Lecture Notes in Computer Science (**LNCS**), editor with Dr. Ludovico Boratto. **Accepted by LNCS and will appear in Autumn 2019**

[**SoMePeAS-IRJ '19**] Special Issue on *Social Media for Personalization And Search* of the Information Retrieval Journals (Springer), guest editor with Dr. Ludovico Boratto and Dr. Andreas Kaltenbrunner. Volume 22, Issue 1-2, April 2019,

<https://link.springer.com/journal/10791/22/1/page/1>

[**SoMePeAS-CEUR '17**] *Proceedings of the Workshop on Social Media for Personalization and Search* co-located with 39th European Conference on Information Retrieval (ECIR 2017) , editor with Dr. Ludovico Boratto and Dr. Andreas Kaltenbrunner. 2017

<http://ceur-ws.org/Vol-1840/>

CONFERENCES  
ORGANIZATION  
INVOLVEMENT<sup>3</sup>

[**WSDM '25**] Workshop Chair of *The 19th ACM International Conference on Web Search and Data Mining (WSDM 2026)*, February 22 – 26, 2026, Boise, Idaho, USA.

<https://wsdm-conference.org/2026/index.php/organizers/>

[**WIPE-OUT '25**] Ideator and organizer of the *Workshop on Innovations, Privacy-preservation, and Evaluations Of machine Unlearning Techniques (WIPE-OUT 2025)*, with Andrea D'Angelo, Claudio Savelli,

Flavio Giobergia, Francesco Gullo, hosted by *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD 2025)*, September 15th, 2025, Porto, Portugal.  
<https://ecmlpkdd.org/2025/workshops-tutorials/>  
[https://aiimlab.org/events/ECML\\_PKDD\\_2025\\_WIPE-OUT\\_Innovations\\_Privacy-preservation\\_Evaluations\\_Machine\\_Unlearning\\_Techniques.html](https://aiimlab.org/events/ECML_PKDD_2025_WIPE-OUT_Innovations_Privacy-preservation_Evaluations_Machine_Unlearning_Techniques.html)

[**ECML-PKDD '24**] Co-Organiser of Tutorial entitled *Unraveling Graph Counterfactual Explainability: from Theoretical Foundations to Technical Mastery* at *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD 2025)*, September 15th, 2025, Porto, Portugal.  
<https://ecmlpkdd.org/2025/workshops-tutorials/>

[**CIKM '24**] Student Travel Awards Chair of *The 33rd ACM International Conference on Information and Knowledge Management*, October 21 – 25 2024, Boise, Idaho, USA.  
<https://cikm2024.org/organizers/>

[**DELTA '24**] Lead-Chair of the *First International Workshop on Discovering Drift Phenomena in Evolving Landscape*, (DELTA '24), with Dr. Marco Piangerelli, Dr. Bardh Prenkaj, Ylenia Rotalinti, Ananya Joshi, hosted by *30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2024)*, 26 August 2024, Barcelona, Spain.  
<https://kdd2024.kdd.org/workshops/>  
[https://aiimlab.org/events/KDD\\_2024\\_Discovering\\_Drift\\_Phenomena\\_in\\_Evolving\\_Landscape.html](https://aiimlab.org/events/KDD_2024_Discovering_Drift_Phenomena_in_Evolving_Landscape.html)

[**AAAI '24**] Proponent and Organiser of Tutorial entitled *Graphs Counterfactual Explainability: A Comprehensive Landscape* at the *Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI-24)*, 20-21, Feb. 2024, Vancouver, Canada  
<https://aaai.org/aaai-24-conference/aaai-24-tutorial-and-lab-forum/>

[**AAAI '24**] Proponent and Organiser of Laboratory entitled *Digging into the Landscape of Graphs Counterfactual Explainability* at the *Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI-24)*, 20-21, Feb. 2024, Vancouver, Canada  
<https://aaai.org/aaai-24-conference/aaai-24-tutorial-and-lab-forum/>

[**itaDATA '24**] Program Chair of *The 3rd Italian Conference on Big Data and Data Science*, 17-19 September 2024, Pisa, Italy  
<https://www.itadata.it/2024/committees>

[**BIAS '23**] Co-Chair of *Fourth International Workshop on Algorithmic Bias in Search and Recommendation*, (BIAS '23), with Dr. Ludovico Boarotto, Dr. Stefano Faralli, and Mirko Marras, hosted by *45nd European Conference on Information Retrieval (ECIR 2023)*, 2 April 2022, Dublin, Ireland.

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<sup>3</sup>Note that all these workshops/tracks are organized in the context of top rated conferences in the field, and they are subject to a peer-review of the workshop proposal.

[**itaDATA '21**] Chair of Research Track on *Big Data and AI*, (itaDATA '21), of the *The 1st Italian Conference on Big Data and Data Science*, September 20-21 2022, Milan, Italy  
<https://www.itadata.it/program>

**[UMAP '22]** Co-Chair of the Doctoral Consortium of *30th ACM Conference on User Modeling, Adaptation and Personalization*, (UMAP '22), with Prof. Rita Orji, 4-7 July 2022, Barcelona, Spain.

**[BIAS '22]** Co-Chair of *Third International Workshop on Algorithmic Bias in Search and Recommendation*, (BIAS '22), with Dr. Ludovico Boratto, Dr. Stefano Faralli, and Mirko Marras, hosted by *44nd European Conference on Information Retrieval (ECIR 2022)*, 10 April 2022, Stavanger, Norway.

<https://biasinrecsys.github.io/ecir2022/>

**[BIAS '21]** Co-Chair of *Second International Workshop on Algorithmic Bias in Search and Recommendation*, (BIAS '21), with Dr. Ludovico Boratto, Dr. Stefano Faralli, and Mirko Marras, hosted by *43nd European Conference on Information Retrieval (ECIR 2021)*, 1 April 2021, Lucca, Italy

<https://biasinrecsys.github.io/ecir2021/>

**[ICDM '21]** Chair of *Research Track on Graph Neural Networks*, (ICDM '21), of the *21th IEEE International Conference on Data Mining*, 7 - 10th December 2021 Auckland, New Zealand

<https://icdm2021.auckland.ac.nz/>

**[BIAS '20]** Co-Chair of *International Workshop on Algorithmic Bias in Search and Recommendation*, (BIAS '20), with Dr. Ludovico Boratto, Dr. Stefano Faralli, and Mirko Marras, hosted by *42nd European Conference on Information Retrieval (ECIR 2020)*, 14 April 2020, Lisbon, Portugal

<http://bias.disim.univaq.it/>

**[KDD '20]** Chair of *Research Track on Autoencoders*, (KDD '20), of the *26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, 25th August 2020, San Diego, U.S.A.

<https://www.kdd.org/kdd2020/>

**[ICDM '20]** Co-Chair of *Research Track on Outlier and Anomaly Detection*, (ICDM '20), of the *20th IEEE International Conference on Data Mining*, 20th November 2020, Sorrento, Italy

<http://icdm2020.bigke.org/>

**[Coding Conscious Cities '19]** Co-Chair of *Coding Conscious Cities - Interdisciplinary Research Tracks*, (Conscious '19), with Dr. Itai Palti, Natalia Olszewska, Eleonora Velluto, hosted by *ACM Celebration of Women in Computing - womENcourage 2019*, 17 September 2019, Rome, Italy

<https://womencourage.acm.org/2019/interdisciplinary-research-tracks/>

**[SoMePeAS '19]** Co-Chair of *SoMePeAS: Workshop on Social Media for Personalization And Search*, (SoMePeAS '19), with Dr. Ludovico Boratto, hosted by *European Conference on Information Retrieval (ECIR)*, 14 April 2019, Cologne, Germany

<http://somepeas.di.uniroma1.it/somepeas-ws2019.html>

**[SIR '18]** Co-Chair of *SIR: Workshop on Social Interaction-based Recommendation*, (SIR '18), with Dr. L. Boratto, Dr. S. Faralli and Dr.

C. Morbidoni, hosted by *International Conference on Information and Knowledge Management (CIKM)*, 22 October 2018, Turin, Italy  
<http://sir.di.uniroma1.it/>

[**SoAPS '18**] Co-Chair of *SoAPS: Workshop on Social Aspects in Personalization and Search*, (SoAPS '18), with Dr. Ludovico Boratto, hosted by *European Conference on Information Retrieval (ECIR)*, 26 March 2018, Grenoble, France  
<http://soaps.di.uniroma1.it/>

[**SERecSys '17**] Co-Chair of *SERecSys: Second Workshop on Semantics-Enabled Recommender Systems*, (SERecSys '17), with Dr. Ludovico Boratto and Prof. Salvatore Carta, hosted by *IEEE International Conference on Data Mining (ICDM)*, 8 November 2017, New Orleans, (USA)  
<http://serecsys.di.uniroma1.it>

[**SoMePeAS '17**] Co-Chair of *SoMePeAS: Workshop on Social Media for Personalization And Search*, (SoMePeAS '17), with Dr. Ludovico Boratto and Dr. Andreas Kaltenbrunner, hosted by *European Conference on Information Retrieval (ECIR)* , 9 April 2017, Aberdeen, Scotland (UK)  
<http://somepeas.di.uniroma1.it/somepeas-ws2017.html>

[**SERecSys '16**] Co-Chair of *SERecSys: Workshop on Semantics-Enabled Recommender Systems*, (SERecSys '16), with Dr. Ludovico Boratto and Prof. Salvatore Carta, hosted by *IEEE International Conference on Data Mining (ICDM)*, 12 December 2016, Barcelona (Spain)  
<http://serecsys.di.uniroma1.it/serecsys2016.html>

#### INVITED TALKS

***Unraveling Graph Counterfactual Explainability: from Theoretical Foundations to Technical Mastery***, 19th September 2025, Tutorial at *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD 2025)*, 15-19 September, Porto, Portugal

***Machine Unlearning: Theory, Methods, and Evaluations with Hands-On Insights*** at the 3rd European Summer School on Artificial Intelligence 2025, 30.06 - 04-07 2025, Bratislava, Slovakia.

***Bias, Fairness, and Explainability: Building Trust in AI Systems*** at the Technical University of Munich - Responsible Data Science,, 9 – 12 July 2024, Munich, Germany.

***The Future of Digitalized Healthcare*** at the 2024 International Summer School on Digitalization for Health and Social Impact, May 28th, 2024, Pristina, Kosovo.

***Graphs' Counterfactual Explainability Landscape: current state and frontiers*** at XAI.it 2023 - 4th Italian Workshop on Explainable Artificial Intelligence, co-located with AIxIA 2023 on 8, Nov. 2023, Rome, Italy.

***Uncovering Gender Bias in Academia*** at AI-GAP Algorithmic Biases in Artificial Intelligence from Interdisciplinary Perspectives, 17 Novem-

ber 2023, L'Aquila (Italy).

***Explainability Techniques for Tabular Data, Images, Time Series and Graphs*** at the SoBigData Summer School 2023 on *Responsible Data Science for Society: Models, Algorithms, Trustworthy AI*, 9-15 July 2023 - Lipari Island, Sicily -Italy.

***Task Force on AI & COVID-19: Results and next steps***, 15th of July 2020, Worldwide Webminar organised by the CLAIRE - Confederation of Laboratories of Artificial Intelligence Research in Europe. [LINK](#)

***Challenges and Solutions to the Student Dropout Prediction Problem in Online Courses*** 19th October 2020, Tutorial at *29th ACM International Conference On Information and Knowledge Management*, (CIKM '20), October 19 - 23, 2020, Galway - Ireland

***Tailoring Centrality Measures in Multiplex Networks with Cyclic Dependencies***, 18 November 2019,  
George Mason University, Department of Computer Science, Fairfax, USA.

***Time Makes Sense***, 6 November 2018,  
Gran Sasso Science Institute, L'Aquila, Italy.

***Centrality Measures in Multiplex Networks with Cyclic Dependencies***, 23 July 2018,  
EURECAT Labs, Barcellona, Spain.

***Capturing users' information and communication needs for the press officers.***, 7 June 2017,  
EURECAT Labs, Barcellona, Spain.

***Time Makes Sense*** - Yahoo Labs, Barcelona, Spain, June 2014

JOURNALS  
REVIEWING  
Machine Learning, (**MACH**),  
ISSN 08856125, 15730565, Springer Netherlands

TKDD: ACM Transactions on Knowledge Discovery from Data, (**TKDD**),  
ISSN 15564681, Association for Computing Machinery Press

ACM Transactions on Intelligent Systems and Technology, (**TIST**),  
ISSN 21576904, 21576912, Association for Computing Machinery Press

IEEE Transactions on Knowledge and Data Engineering, (**TKDE**),  
ISSN 10414347, IEEE Computer Society

Data Mining and Knowledge Discovery, (**DAMI**),  
ISSN 13845810, 1573756X, Springer Netherlands

Artificial Intelligence, An International Journal, (**AI**),  
Elsevier B.V.

Knowledge and Information Systems, An International Journal, (**KAIS**),  
ISSN 02191377, 02193116, Springer London

Artificial Intelligence in Medicine, (**AIIM**),  
ISSN 09333657, 18732860, Elsevier

Information Processing & Management An International Journal, (**IPM**),  
ISSN 03064573, 18735371, Elsevier Ltd.

Applied Network Science, (**ANS**),  
ISSN 23648228, Springer Verlag.

PROGRAM  
COMMITTEES

**Associate Chair (PC Co-Chair)** of *The 34th ACM International Conference on Information and Knowledge Management*, November 10–14, 2025, SEOUL, KOREA.

**Senior** Program Committees for *The 28th European Conference on Artificial Intelligence, (ECAI '25)*, October 25–30, 2025, Bologna, Italy.

**Senior** Program Committees for *34th International Joint Conference on Artificial Intelligence, (IJCAI '25)*, August 16 to August 22, 2025, Montreal, Canada.

**Senior** Program Committees for *The 34th ACM International Conference on Information and Knowledge Management, (CIKM '25)*, November 10–14, 2025, SEOUL, KOREA.

**Senior** Program Committees for *SIAM International Conference on DATA MINING , (SDM '25)*, May 1–3, 2025, Alexandria, Virginia, (USA).

The 4th Italian Conference on Big Data and Data Science, (**itaDATA '25**), 9–11 September 2025, Turin, Italy.

**Senior** Program Committees for *The 33rd ACM International Conference on Information and Knowledge Management, (CIKM '24)*, October 21–25 2024, Boise, Idaho, USA. Special Recognition as SPC:  
<https://cikm2024.org/best-paper-awards/>

*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, (ECML-PKDD '24)*, 9 - 13, September 2024, Vilnius, Lithuania.

*The Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI-23)*, 7 – 14, February 2023, Washington DC, USA

**Senior** Program Committees for *The 26th European Conference on Artificial Intelligence ECAI 2023, (ECAI '23)*, 30.09 - 4.10, 2023, Kraków, Poland

*The 27th Pacific-Asia Conference on Knowledge Discovery and Data Mining, (PAKDD '23)*, 25–28 May, 2023, Osaka, Japan

*SIAM International Conference on DATA MINING , (SDM '23)*, Apr 27, 2023 - Apr 29, 2023, Minneapolis, MN, (USA)

*22nd IEEE International Conference on Data Mining, (ICDM '22)*, November 28 - Dec. 1, 2022, Orlando, USA

*28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, (KDD '22), August 14 - 18, 2022, Washington DC, USA*

*The 31st International Joint Conference on Artificial Intelligence, (IJCAI '22), July 23-29, 2022, Vienna, Austria*

*SIAM International Conference on DATA MINING , (SDM '22), April 28 - 30, 2022, Alexandria, Virginia, (USA)*

*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, (ECML-PKDD '21), September 13 - 17, 2021, Bilbao, Spain*

*21th IEEE International Conference on Data Mining, (ICDM '21), December 7 - 10, 2021, Auckland, New Zealand*

*59t Annual Meeting of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing, (ACL-IJCNLP '21), August 1 - 6, 2021, Bangkok, Thailand*

*ACM SIGKDD Conference on Knowledge Discovery and Data Mining, (KDD '21), August 14 - 18, 2021, Singapore*

*International Joint Conference on Artificial Intelligence, (IJCAI '21), August 19 - 26, 2021, Montreal, Canada*

*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, (ECML-PKDD '20), September 14 - 18, 2020, Ghent, Belgium*

*International Joint Conference on Artificial Intelligence, (IJCAI '20), January 7 - 15, 2020, Yokohama, Japan*

*20th IEEE International Conference on Data Mining, (ICDM '20), November 17 - 20, 2020, Sorrento, Italy*

*ACM SIGKDD Conference on Knowledge Discovery and Data Mining, (KDD '20), August 23 - 27, 2020, San Diego - USA*

*AAAI Conference on Artificial Intelligence, (AAAI '20), February 7 - 12, 2020, New York, USA*

*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, (ECML-PKDD '19), September 16 - 20, 2019, Wurzburg, Germany*

*International Joint Conference on Artificial Intelligence, (IJCAI '19), August 10 - 16, 2019, Macao, China*

*ACM SIGKDD Conference on Knowledge Discovery and Data Mining, (KDD '19), August 4 - 8, 2019, Anchorage, Alaska - USA*

*AAAI Conference on Artificial Intelligence, (AAAI '19), January 27 - February 1, 2019, Honolulu, Hawaii, USA*

*IEEE International Conference on Data Mining (ICDM), (**ICDM '18**), November 17 -20, 2018, Singapore*

*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, (**ECML-PKDD '18**), September 10 - 14, 2018, Dublin, Ireland*

*ACM SIGKDD Conference on Knowledge Discovery and Data Mining, (**KDD '18**), August 19 - 23, 2018, London, United Kingdom*

*SIAM International Conference on DATA MINING , (**SDM '18**), November 3 - 5, 2018, San Diego, California, (USA)*

*IEEE International Conference on Data Mining (ICDM), (**ICDM '17**), November 18 -21, 2017, New Orleans, Lousiana, (USA)*

*ACM SIGCHI Symposium on Engineering Interactive Computing Systems: 2nd Workshop on Engineering Computer-Human Interaction in Recommender Systems (EnCHIRES 2017), (**SIGCHI '17**), 26-29 June, 2017 (Lisbon, Portugal)*

*ACM SIGKDD Conference on Knowledge Discovery and Data Mining, (**KDD '17**), August 13 - 17, 2017, Halifax, Nova Scotia - Canada*

*IEEE BigData Congress 2016 5th IEEE International Congress on Big Data, (**Big Data '16**), June 27 - July 2, 2016, San Francisco, USA*

*IEEE BigData Congress 2015 4th International Congress on Big Data, (**Big Data '15**), June 27 - July 2, 2015, New York, USA*

*ACM Conference On Online Social Networks, (**COSN '14**), October 1-2, 2014, Dublin, Ireland*

*Conferenza Italiana di Linguistica Computazionale, (**CLIC '14**), Dicembre 9-10, 2014, Pisa, Italy*

CONFERENCE  
PARTICIPATION

*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, (**ECML-PKDD '25**), 15-19 September, 2025, Porto, Portugal.*

*30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD'2024**) 25 – 29 August 2024 Barcelona, Spain.*

*The 38th Annual AAAI Conference on Artificial Intelligence (**AAAI '24**), February 20-27, 2024 | Vancouver, Canada.*

*European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, (**ECML-PKDD '23**), September 18 -22 2023, Turin, Italy.*

*The 2nd Italian Conference on Big Data and Data Science, (**itaDATA '23**), September 11-13 2023, University of Naples Parthenope, Naples, Italy.*

The 1st Italian Conference on Big Data and Data Science, (**itaDATA '22**), September 20-21 2022, Milan, Italy. Chairing BIG DATA AND AI Research Paper Session.

30th ACM Conference on User Modeling, Adaptation and Personalization, (**UMAP '22**), 4-7 July 2022, Barcelona, Spain. Chairing the DC.

44th European Conference on Information Retrieval (**ECIR-2022**), 10-14 April 2022, Stavanger, Norway. Co-Chairing BIAS Workshop.

43th European Conference on Information Retrieval (**ECIR-2021**), March 28, April 1 2021, Lucca, Italy. Co-Chairing BIAS Workshop.

21th IEEE International Conference on Data Mining, (**ICDM '21**), December 7 - 10, 2021, Auckland, New Zealand

42th European Conference on Information Retrieval (**ECIR-2020**), April 14-17 2020, Lisbon, Portugal. Co-Chairing BIAS Workshop.

20th IEEE International Conference on Data Mining, (**ICDM '20**), November 17 - 20, 2020, Sorrento, Italy

ACM SIGKDD Conference on Knowledge Discovery and Data Mining, (**KDD '20**), August 23 - 27, 2020, San Diego - USA

29th ACM International Conference On Information and Knowledge Management, (**CIKM '20**), October 19 - 23, 2020, Galway - Ireland

The 34th Annual ACM Symposium on Applied Computing (**SAC-2019**), April 8 - 12, Limassol, Cyprus 2019. Oral presentation of [52], and chairing the *Data Mining Session n°2*.

The 5th IEEE International Conference on Data Science and Advanced Analytics (**DSAA-2018**), 1-4 October 2018, Turin, Italy. Presents a tutorial on *Data Sources and Techniques to Mine Human Mobility Patterns*

International Conference on Information and Knowledge Management (**CIKM-2018**), 22 October 2018, Turin, Italy. Co-Chairing SIR Workshop.

40th European Conference on Information Retrieval (**ECIR-2018**), March 26-29 2018, Grenoble, France. Co-Chairing SoAPS Workshop.

IEEE International Conference on Data Mining series (**ICDM-2017**), 8 November 2017, New Orleans, (USA). Co-Chairing SERecSys Workshop.

The 11th International AAAI Conference On Web And Social Media (**ICWSM-17**), May 15-18, 2017, Montreal, Canada. Oral presentation of [55]

39th European Conference on Information Retrieval (**ECIR-2017**), April 9-13 2017, Aberdeen, Scotland UK. Co-Chairing SoMePeaaS Workshop.

IEEE International Conference on Data Mining series (**ICDM-2016**),  
12 December 2016, Barcelona, Spain. Co-Chairing SERecSys Workshop.

24th International Conference on Artificial Intelligence, (**IJCAI '15**), July  
25-31, Buenos Aires, Argentina, 2015. Oral presentation of [59]

Workshop: Wikipedia, a Social Pedia: Research Challenges and Opportunities (**ICWSM '15**), May 26-29, Oxford, UK 2015. Oral presentation of [72].

24th International World Wide Web Conference (**WWW '15**), May 18-22, Florence, Italy, 2015.

Knowledge Engineering and Knowledge Management (**EKAW '14**), November 24-28, Linköping, Sweden, 2014. Oral presentation of [61].

The 2014 IEEE/WIC/ACM International Conference on Web Intelligence (**WIC '14**), August 11-14, Warsaw, Poland, 2014. Presentation of [62].

Brain Informatics and Health (**BIH '14**), August 11-14, Warsaw, Poland, 2014. Oral presentation of [63].

17th Text REtrieval Conference (**TREC '08**), National Institute of Standards and Technology (NIST), November 18-21, Gaithersburg, Maryland, USA, 2008. Oral presentation of [65].

Business Information Systems Workshops, (**BIS '09**) International Workshops, April 27-29, Poznan, Poland, 2009. Oral presentation of [74].

## PART VIII - PUBLICATIONS

For each publication, we indicate title, authors, date of publication, journal IF (if available on the journal webpage), citations, press/media release (if any), and DOI.

### BOOK CHAPTERS

- [1] L. Madeddu and G. Stilo  
Deep Learning methods in Network Biology.  
*In Bacciu, Davide and J G Lisboa, Paulo and Vellido, Alfredo, “Deep Learning in Biology and Medicine”*  
ISBN 978-1-80061-093-4, WorldScientific, 2021  
DOI: <https://doi.org/10.1142/q0322>
  
- [2] M. Iannotta , M. Gatti, G. Stilo  
Leveraging the enterprise social network for the emergence of women’s leadership.  
*In Canonicco, P., Consiglio, S., Mangia, G., Martinez, M., Mercurio, R., Moschera, L. (eds), “Organizing in the shadow of power”*  
ISBN 978-88-98-85428-8, pp. 505-526, Studi MOA (2018). Collana di Management e Organizzazione Aziendale.  
Available also in e-format on amazon: <https://tinyurl.com/yas45d9z>

- [3] D' Angelo Andrea, Francesco Gullo, and Giovanni Stilo, The Forget-Set Identification Problem. *Machine Learning*, 2025, Springer  
DOI: <https://doi.org/10.1007/s10994-025-06897-9>  
Journal IF: **2.9**
- [4] M. A. Prado-Romero, B. Prenkaj, G. Stilo, and F. Giannotti, A Survey on Graph Counterfactual Explanations: Definitions, Methods, Evaluation, and Research Challenges. *ACM Computing Survey*, Vol. 56, 7, Article 171 (July 2024)  
DOI: <https://doi.org/10.1145/3618105>  
Journal IF: **7.990**
- [5] A. D'Angelo, G. d'Aloisio, F. Marzi, A. Di Marco, G. Stilo, Uncovering gender gap in academia: A comprehensive analysis within the software engineering community. *Journal of Systems and Software*, Volume 217, 2024, 112162, ISSN 0164-1212  
DOI: <https://doi.org/10.1016/j.jss.2024.112162>  
Journal IF: **3.7**
- [6] G. d'Aloisio, A. D'Angelo, A. Di Marco, G. Stilo, Debiaseder for Multiple Variables to enhance fairness in classification tasks. *Information Processing & Management*, Vol. 60, I. 2, 2023, ISSN 0306-4573  
DOI: <https://doi.org/10.1016/j.ipm.2022.103226>.  
Journal IF: **7.466**
- [7] D. Bacciu, F. Errica, A. Gravina, L. Madeddu, M. Podda, G. Stilo, Deep Graph Networks for Drug Repurposing with Multi-Protein Targets *IEEE Transactions on Emerging Topics in Computing*  
DOI: <https://doi.org/10.1109/TETC.2023.3238963>  
Journal IF: **6.595**
- [8] L. Cavallaro, S. Costantini, P. De Meo, A. Liotta and G. Stilo, Network Connectivity Under a Probabilistic Node Failure Model *IEEE Transactions on Network Science and Engineering*, vol. 9, no. 4, pp. 2463-2480, 1 July-Aug. 2022, DOI: <https://doi.org/10.1109/TNSE.2022.3164357>.  
Journal IF: **5.033**
- [9] G. Mudassir, E. Howard, L. Pasquini, C. Arbib, E. Clementini, A. Di Marco, G. Stilo. Toward Effective Response to Natural Disasters: A Data Science Approach. *IEEE Accesss* , V.9, pp. 167827-167844, 2021 (DOI: <https://doi.org/10.1109/ACCESS.2021.3135054>).  
Journal IF: **3.367**
- [10] G. Di Tommaso, S. Faralli, M. Gatti, M. Iannotta, G. Stilo, P. Vellardi. An Enterprise Social Analytics Dashboard to Support Competence Valorization and Diversity Management. *Applied Sciences* , V.18, 2021 (DOI: <https://doi.org/10.3390/app11188385>).  
Journal IF: **2.679**
- [11] L. Boratto, S. Faralli, M Marras, G. Stilo. Report on the international workshop on algorithmic bias in search and recommendation (Bias 2020). *ACM Special Interest Group on Information Retrieval Forum (ACM SIGIR)*, V.54, Article 9, 2021 (DOI: <https://doi.org/10.1145/3451964.3451973>).  
Journal IF: **12**

- [12] S. Nunes, S. Little, S. Bhatia, L. Boratto, G. Cabanac, R. Campos, F. Couto, S. Faralli, I. Frommholz, A. Jatowt, A. Jorge, M. Marras, P. Mayr, G. Stilo. ECIR 2020 Workshops: Assessing the Impact of Going Online. *ACM Special Interest Group on Information Retrieval Forum (ACM SIGIR)*, V.54, Article 7, 2021 (DOI: <https://doi.org/10.1145/3451964.3451971>).  
Journal IF: **12**
- [13] L. Boratto, S. Faralli, M. Marras, G. Stilo. Guest editorial of the IPM special issue on algorithmic bias and fairness in search and recommendation. *Information Processing & Management (IPM)*, V.59, 2021 (DOI: <https://doi.org/10.1016/j.ipm.2021.102791>).  
Journal IF: **6.222**
- [14] G. Di Tommaso, M. Gatti, M. Iannotta, A. Mehra, G. Stilo, P. Velardi. Gender, rank, and social networks on an enterprise social media platform. *Social Networks (SN)*, V.62, P.58-67, 2020 (DOI: <https://doi.org/10.1016/j.socnet.2020.02.007>).  
Journal IF: **2.376**
- [15] B. Prenkaj, P. Velardi, G. Stilo, D. Distante, and S. Faralli  
A Survey of Machine Learning Approaches for Student Dropout Prediction in Online Courses. *ACM Comput. Surv. (CSUR)*, 53, 3, Article 57 (June 2020), 34 pages (DOI: <https://doi.org/10.1145/3388792>).  
Journal IF: **7.990**
- [16] M. A. Prado-Romero, A. Coto-Santiesteban, A. Celi, and G. Stilo  
A time-sensitive model to predict topic popularity in news providers *Intelligent Data Analysis (IDA)*, vol. 24, no. S1, pp. 123-140, IOS Press 2020 (DOI: <https://doi.org/10.3233/IDA-200012>).  
Journal IF: **1.32**
- [17] L. Madeddu, G. Stilo and P. Velardi  
A feature-learning-based method for the disease-gene prediction problem. *International Journal of Data Mining and Bioinformatics (IJDDB)*, Inderscience Publishers (IEL) August 2020, Volume 24, Issue 1, pp 16-37  
(DOI: <https://doi.org/10.1504/IJDDB.2020.109502>).  
Journal IF: **0.772**
- [18] A. Lenzi, M. Maranghi, G. Stilo, P. Velardi  
The social phenotype: Extracting a patient-centered perspective of diabetes from health-related blogs  
*Artificial Intelligence in Medicine (AIIM)*, V. 101 , ELSEVIER 2019 (DOI: <https://doi.org/10.1016/j.artmed.2019.101727>).  
Journal IF: **4.383**
- [19] F. Bonchi and I. Bordino and F. Gullo and G. Stilo  
Importance of Unexpectedness: Discovering Buzzing Stories in Anomalous Temporal Graphs  
*Web Intelligence Journal (WIJ)*, vol. 17, no. 3, pp. 177-198, IOS Press 2019 (DOI: <https://doi.org/10.3233/WEB-190412>).  
Journal IF (SJR): **0.63**
- [20] A. Cucchiarelli and C. Morbidoni and G. Stilo and P. Velardi  
A Topic Recommender for Journalists  
*Information Retrieval Journal (IRJ)*, Springer April 2019, Volume

22, Issue 12, pp 4?31  
(DOI: <https://doi.org/10.1007/s10791-018-9333-2>).  
Journal IF: **2.209**

- [21] S. Faralli, G. Stilo and P. Velardi  
Automatic Acquisition of a Taxonomy of Microblogs Users' Interests. *Web Semantics: Science, Services and Agents on the World Wide Web (JWS)*, V. 45, I. 1, p. 23-40, ELSEVIER 2017 (DOI: <https://doi.org/10.1016/j.websem.2017.05.004>).  
Journal IF: **2.238**
- [22] G. Stilo, P. Velardi  
Hashtag Sense Clustering based on Temporal Similarity.  
*Computational Linguistics (COLI)*, V. 43, I. 1, p. 181-200, MIT Press Journals, March 2017 (DOI: [http://dx.doi.org/10.1162/COLI\\_a\\_00277](http://dx.doi.org/10.1162/COLI_a_00277)).  
Journal IF: **2.510**
- [23] Stilo, G., Basagni, S., Gesualdo, F., Velardi, P., Tozzi, A.E., et Al.  
Results from the centers for disease control and prevention's predict the 2013-2014 Influenza Season Challenge  
(2016) *BMC Infectious Diseases*, 16 (1), art. no. 357. (DOI: <http://dx.doi.org/10.1186/s12879-016-1669-x>).
- [24] G. Stilo, P. Velardi  
Efficient temporal mining of micro-blog texts and its application to event discovery.  
*Data Mining and Knowledge Discovery (DMKD)*, V. 30, I. 2, p. 372-402, Springer US, March 2016 (DOI: <http://dx.doi.org/10.1007/s10618-015-0412-3>).  
Journal IF: **3.644**
- [25] S. Faralli, G. Stilo, P. Velardi  
Recommendation of microblog users based on hierarchical interest profiles. *Social Network Analysis and Mining (SNAM)*, V. 5 p. 1-23, Springer Vienna 2015  
DOI: <http://dx.doi.org/10.1007/s13278-015-0264-2>.  
Journal IF (SJR): **2.97**
- [26] F. Gesualdo, G. Stilo, A. D'Ambrosio, E. Carloni, E. Pandolfi, P. Velardi, A. Fiocchi, A. E. Tozzi  
Can Twitter Be a Source of Information on Allergy? Correlation of Pollen Counts with Tweets Reporting Symptoms of Allergic Rhinoconjunctivitis and Names of Antihistamine Drugs.  
*PloS one (PloS one'15)*, July 21, 2015  
DOI: <https://doi.org/10.1371/journal.pone.0133706>  
Journal IF: **2.740**
- [27] P. Velardi, G. Stilo, A. E. Tozzi, F. Gesualdo  
Twitter mining for fine-grained syndromic surveillance.  
*Artificial Intelligence in Medicine (AIIM)*, V. 61 I.3 p. 153-163, ELSEVIER 2014 (DOI: <http://dx.doi.org/10.1016/j.artmed.2014.01.002>).  
Journal IF: **4.383**
- [28] F. Gesualdo, G. Stilo, E. Agricola, M. V. Gonfiantini, E. Pandolfi, P. Velardi, A. E. Tozzi  
Influenza-Like Illness Surveillance on Twitter through Automated

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PAPERS

Learning of Naïve Language.  
*PloS one (PloS one'13)*, December 4, 2013 (DOI:  
<http://dx.doi.org/10.1371/journal.pone.0082489>).  
 Journal IF: **2.740**

- [29] D'Angelo, A., Savelli, C., Tagliente, G., Giobergia, F., Baralis, E., & Stilo, G. ERASURE: A Modular and Extensible Framework for Machine Unlearning. In *Proceedings of the 34th ACM International Conference on Information and Knowledge Management*. **CIKM 2025** (pp. 11025–11029). The 34th ACM International Conference on Information and Knowledge Management.
- [30] D'Angelo, A., Savelli, C., Tagliente, G., Giobergia, F., Baralis, E., & Stilo, G. How to make reproducible research in machine unlearning with ERASURE. In *J. Kwok (Ed.), Proceedings of the Thirty-Fourth International Joint Conference on Artificial Intelligence IJCAI 2025* (pp. 11025–11029). International Joint Conferences on Artificial Intelligence Organization.  
 DOI: <https://doi.org/10.24963/ijcai.2025/1255>
- [31] Prado-Romero, M.A., Prenkaj, B., Stilo, G. (2025). Exploring Ensemble Strategies for Graph Counterfactual Explanations. In: *Guidotti, R., Schmid, U., Longo, L. (eds) Explainable Artificial Intelligence. xAI 2025*. Communications in Computer and Information Science, vol 2579. Springer, Cham.  
 DOI: [https://doi-org.univaq.idm.oclc.org/10.1007/978-3-032-08330-2\\_9](https://doi-org.univaq.idm.oclc.org/10.1007/978-3-032-08330-2_9)
- [32] Prado-Romero, M.A., Prenkaj, B., Stilo, G. GRETEL 2.0: Generation and Evaluation of Graph Counterfactual Explanations Evolved. In: *Bifet, A., et al. Machine Learning and Knowledge Discovery in Databases. Research Track and Demo Track*. **ECML PKDD 2024**. Lecture Notes in Computer Science(), vol 14948. Springer. DOI: [https://doi.org/10.1007/978-3-031-70371-3\\_21](https://doi.org/10.1007/978-3-031-70371-3_21)
- [33] M. A. Prado-Romero, B. Prenkaj and G. Stilo Robust Stochastic Graph Generator for Counterfactual Explanations. *Proceedings of the 38th AAAI Conference on Artificial Intelligence (AAAI '24)*. February 20-27, 2024, Vancouver, Canada.  
 DOI: <https://doi.org/10.1609/aaai.v38i19.30149>.
- [34] L. Traini, J. Leone, G. Stilo, and A. Di Marco. VAMP: Visual Analytics for Microservices Performance. newblock In *Proceedings of the 39th ACM/SIGAPP Symposium on Applied Computing (SAC '24)*. Association for Computing Machinery, New York, NY, USA, 1209–1218.  
 DOI: <https://doi.org/10.1145/3605098.3636069>
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