PERSONAL INFORMATION

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CURRENT POSITION

2024– Full Professor in Computer Science
Department of Civil, Computer Science and Aeronautical Technologies Engineering, Roma Tre University
Member of the Artificial Intelligence Research Group
Since November 1, 2024

PREVIOUS POSITIONS

2022–2024 Associate Professor
Department of Civil, Computer Science and Aeronautical Technologies Engineering, Roma Tre University
From February 1, 2022 to November 1, 2024

2019–2022 Assistant Professor (on tenure track)
Department of Engineering, Roma Tre University
From February 1, 2019 to January 31, 2022

2011–2016 Non-tenure-track Assistant Professor
Department of Engineering, Roma Tre University
From February 1, 2011 to January 31, 2016

EDUCATION

2005 PhD in Computer Science and Automation
Department of Computer Science and Automation,
Faculty of Engineering - Roma Tre University
Thesis title: "Adaptive Web Search: User Modeling based on Associative Memory and Multi-Agent Focused Crawling"
Doctoral period carried out at the Artificial Intelligence Laboratory of Roma Tre University and the User Interface Research Lab at the Palo Alto Research Center (PARC), USA.
The PhD period ran from January 2002 to December 2004. Degree awarded on June 21, 2005.

2001 Master's-level Degree in Computer Engineering
Faculty of Engineering - Roma Tre University
Thesis title: "Intelligent Agents for Information Retrieval on the World Wide Web'
Thesis carried out at the Artificial Intelligence Laboratory of Roma Tre University.
Degree awarded on September 28, 2001.

RESEARCH CONTRACTS

Research Grants

2016–2019 Research Fellow
Department of Engineering, Roma Tre University
From June 1, 2016 to January 31, 2019
Research program: "Focused information retrieval in the domain of social networks."

2010–2011 Research Fellow
Faculty of Engineering, Roma Tre University
From June 1, 2010 to January 31, 2011
Research program: "Methods and techniques for the automatic retrieval of information in collaborative and distributed environments."

2008–2010 Research Fellow
Faculty of Engineering, Roma Tre University
From February 1, 2008 to January 31, 2010
Research activities focused on developing methods and techniques for user profile–based query expansion and information filtering.

2006–2008 Research Fellow
Faculty of Engineering, Roma Tre University
From February 1, 2006 to January 31, 2008
Research activities focused on developing methods and techniques for context-aware recommender systems.

Other types of research contracts

2010 Scientific research assignment awarded by Roma Tre University – Department of Computer Science and Automation entitled "Design of a case-based system for semantic extraction of content from hypertext sources," within the FAR project "KEEN – Knowledge-based Extended ENterprise" funded by the Italian Ministry of Education, University and Research (MIUR).
From February 1, 2010 to July 31, 2010

2008 Scientific research assignment awarded by the CRMPA Consortium (Research Center in Pure and Applied Mathematics – University of Salerno) related to Work Package 4.2 of the project "NewGenLearn – Advanced Services and Applications for Next-Generation e-Learning," funded by POR Campania 2000–2006.
From July 1, 2008 to December 31, 2008

2008 Professional assignment awarded by the CRMPA Consortium (Research Center in Pure and Applied Mathematics) within Objective OR 2 (Study of intelligent services and contents) RI 2.3 (Definition of models for describing content adaptation rules): "Study of an intelligent system for the visually impaired for multimedia self-service payment assistance," under the SAPI Project (Automatic System for the Visually Impaired), funded through competitive calls.
From March 19, 2008 to June 30, 2008

2004 Scientific research assignment on the project "Theory and design of adaptable human information interaction systems for intelligence work," part of the R& D program "Novel Intelligence from Massive Data (NIMD)," with the role of graduate intern. Assignment awarded by the Palo Alto Research Center (PARC – formerly Xerox PARC), Palo Alto, CA, USA. Supervisors: Ed H. Chi and Peter Pirolli.
From May 24, 2004 to December 17, 2004

2002-2003 Scientific research assignment awarded by the CRMPA Consortium (Research Center in Pure and Applied Mathematics – University of Salerno) within the "Diogene" project funded by the European FP5-IST program (contract IST-2001-33358).
From April 2, 2002 to December 31, 2003

2001-2002 Scientific research assignment awarded by the CRMPA Consortium (Research Center in Pure and Applied Mathematics – University of Salerno) within the project "M-LEARNING – Mobile Communications Technologies for Young Adults Learning and Skills Development," funded by European FP5-IST (contract IST-2000-25270).
From December 3, 2001 to March 31, 2002

RESEARCH GROUP COORDINATION

2023–2026 Coordinator of research group WG1 "Machine Aided Design," within the Flagship Project FP6 "Artificial intelligence, virtual reality and digital twin for advanced engineering and aerospace," Spoke 1 "Applied research, technology development and innovation.",
Project: "Rome Technopole – Innovation Ecosystem," funded under Italy's PNRR (Mission 4 – Component 2 – Investment 1.5) (Decree no. 3277 of December 30, 2021).
Project start date: July 1, 2022; expected end: June 30, 2025 (deadline extended on December 2, 2025)
Coordination activities started on May 18, 2023.
The research group involves the following three units: Thales Alenia Space Italia, Roma Tre University, University of Rome Tor Vergata.

PARTICIPATION IN NATIONAL AND INTERNATIONAL RESEARCH GROUPS

2022 Participation in the Ubiquitous Interaction Research Group, Department of Computer Science, University of Helsinki, Finland, directed by Prof. Giulio Jacucci.
The visit took place from September 8, 2022 to December 9, 2022

2017 Participation in the Social Dynamics Group at Nokia Bell Labs (formerly Bell Labs), Cambridge, U.K., directed by Dr. Daniele Quercia.
The visit took place at the Cambridge site, from July 26, 2017 to October 26, 2017

2010 Participation in the "Extended and Virtual Enterprise" research group comprising: the Artificial Intelligence group at Roma Tre University, the Artificial Intelligence group at the University of Rome Tor Vergata, Italdata SpA, Siemens Informatica SpA. The activity falls within the MIUR FAR research project: "KEEN – Knowledge-based Extended ENterprise" 4418/ICT.
The participation extended from February 1, 2010 to July 31, 2010.

2006- Participation in activities of the Artificial Intelligence group of the Department of Civil, Computer and Aerospace Technologies Engineering, Roma Tre University.
The participation led to the development of innovative methods and techniques in the fields of Intelligent Tutoring Systems, User Modeling and User-Adapted Interaction, and the Adaptive Web (see descriptions in "Research Activities").

2004 Participation in the User Interface Research Group at the Palo Alto Research Center (PARC, formerly Xerox PARC), Palo Alto, CA, USA, directed by Stuart Card.
The visit took place at the Palo Alto site, from May 24, 2004 to December 17, 2004.

PARTICIPATION IN RESEARCH PROJECTS

2026- "COST Action CA25153: HARPA" - Human-centered Approaches to Responsible Privacy for and with AI. Working Group Member WG1 - "Empowering Users: Usable AI for Informed and Autonomous Privacy Decision-Making". Since November, 2026 https://www.cost.eu/actions/CA25153/

2025-2026 "COST Action CA21121: MecaNano" - European Network for the Mechanics of Matter at the Nano-Scale. Working Group Member – WG4: Machine Learning. Since July 25, 2025 https://www.cost.eu/actions/CA21121/

2024 "Democratic Engagement through a Public Chatbot (DepuChat)" – selected in the "AI in support of parliamentary work" Call for Ideas proposed by the Oversight Committee on the Documentation Activity of the Chamber of Deputies, February 2024. https://comunicazione.camera.it/archivio-prima-pagina/19-41970

2023-2026 "Rome Technopole – Innovation Ecosystem," funded under Italy's PNRR (Mission 4 – Component 2 – Investment 1.5) (Decree no. 3277 of December 30, 2021). Member of research group WG1 "Machine Aided Design" within the Flagship Project FP6 "Artificial intelligence, virtual reality and digital twin for advanced engineering and aerospace," Spoke 1 "Applied research, technology development and innovation."
Since May 18, 2023.

2010 "KEEN – Knowledge-based Extended ENterprise," funded by FAR (MIUR). "Design of a case-based system for semantic extraction of content from hypertext sources."
From February 1, 2010 to July 31, 2010

2008 "NewGenLearn – Advanced Services and Applications for Next-Generation e-Learning," funded by POR Campania 2000–2006.
From July 1, 2008 to December 31, 2008

2008 "SAPI Project" – Automatic System for the Visually Impaired, funded through competitive calls.
From March 19, 2008 to June 30, 2008

2004 "Theory and design of adaptable human information interaction systems for intelligence work," part of the R& D program "Novel Intelligence from Massive Data (NIMD)," USA.
From May 24, 2004 to December 17, 2004

2002-2003 "Diogene," funded by the European FP5-IST program (contract IST-2001-33358).

From April 2, 2002 to December 31, 2003

2001-2002 "M-LEARNING – Mobile Communications Technologies for Young Adults Learning and Skills Development," funded by the European FP5-IST program (contract IST-2000-25270).
From December 3, 2001 to March 31, 2002

TEACHING ACTIVITIES

Undergraduate and Graduate Courses

2024–2025 Course assignment: "Deep Learning'' (6 ECTS), MSc in Computer Engineering, Roma Tre University. A.Y. 2024–2025.

2024–2025 Course assignment: "Machine Learning'' (40 hours), MSc in Computer Engineering, Roma Tre University. A.Y. 2024–2025.

2024–2025 Course assignment: "Elements of Computer Science and Linear Algebra'' (9 ECTS), BSc in Mechanical Engineering, Curriculum Technologies for the Sea, Roma Tre University. A.Y. 2024–2025.

2023–2024 Course assignment: "Deep Learning'' (6 ECTS), MSc in Computer Engineering, Roma Tre University. A.Y. 2023–2024.

2023–2024 Course assignment: "Machine Learning'' (40 hours), MSc in Computer Engineering, Roma Tre University. A.Y. 2023–2024.

2023–2024 Course assignment: "Elements of Computer Science and Linear Algebra'' (9 ECTS), BSc in Mechanical Engineering, Curriculum Technologies for the Sea, Roma Tre University. A.Y. 2023–2024.

2022–2023 Course assignment: "Deep Learning'' (6 ECTS), MSc in Computer Engineering, Roma Tre University. A.Y. 2022–2023.

2022–2023 Course assignment: "Elements of Computer Science and Linear Algebra'' (9 ECTS), BSc in Marine Engineering, Roma Tre University. A.Y. 2022–2023.

2022 Teaching assignment at the University of Helsinki (Finland) for course CSM13405 "Project in Human-Computer Interaction,'' part of the Master's degree program in Computer Science.

2021–2022 Course assignment: "Machine Learning'' (9 ECTS), MSc in Computer Engineering, Roma Tre University. A.Y. 2021–2022.

2021–2022 Course assignment: "Elements of Computer Science and Linear Algebra'' (9 ECTS), BSc in Marine Engineering, Roma Tre University. A.Y. 2021–2022.

2020–2021 Course assignment: "Elements of Computer Science and Linear Algebra'' (9 ECTS), BSc in Marine Engineering, Roma Tre University. A.Y. 2020–2021.

2019–2020 Course assignment: "Elements of Computer Science and Linear Algebra'' section A–K (9 ECTS), BSc in Marine Engineering, Roma Tre University. A.Y. 2019–2020.

2019–2020 Course assignment: "Elements of Computer Science and Linear Algebra'' section L–Z (9 ECTS), BSc in Marine Engineering, Roma Tre University. A.Y. 2019–2020.

2018–2019 Course assignment: "Elements of Computer Science and Linear Algebra'' (9 ECTS), BSc in Marine Engineering, Roma Tre University. A.Y. 2018–2019.

2017–2018 Teaching support assignment for the course "Machine Learning'' (part of 6 ECTS), MSc in Computer Engineering, Roma Tre University. A.Y. 2017–2018.

2014–2015 Teaching assignment: "Foundations of Computer Science (LII)'' (6 ECTS), BSc in Computer Engineering, Roma Tre University. A.Y. 2014–2015.

2013–2014 Teaching assignment: "Foundations of Computer Science'' (6 ECTS), BSc in Computer Engineering, Roma Tre University. A.Y. 2013–2014.

2010–2011 Teaching assignment: "Foundations of Computer Science (Module I)'' (6 ECTS), BSc in Computer Engineering, Roma Tre University. A.Y. 2010–2011.

2009–2010 Course "Foundations of Computer Science'' (10 hours), BSc in Electronic Engineering, Roma Tre University. A.Y. 2009–2010.

PhD Courses

2021 Teaching assignment for a module within the "PhD Program in Computer Science and Automation,'' accredited by the Ministry and activated by the Department of Engineering, Roma Tre University. The 3-ECTS module titled "Machine Learning: Advanced techniques for Practical Applications'' was formally approved by the PhD Board and delivered in July 2021.

2017 Teaching assignment for a module within the "PhD Program in Computer Science and Automation,'' accredited by the Ministry and activated by the Department of Engineering, Roma Tre University. The 3-ECTS module titled "Machine Learning for Web Personalization'' was formally approved by the PhD Board on June 27, 2017, and delivered in November 2017.

Master Programs

2024-2025 First-level Master "Cybersecurity, legislation, and security management", course on "Introduction to artificial intelligence" in collaboration with the Department of Public Security of the Ministry of the Interior and with the participation of expert officers from the Guardia di Finanza (4 hours). Università Roma Tre. A.A. 2024/2025.

2024-2025 First-level Master "The Digital State," "Artificial Intelligence and Machine Learning" – course "Artificial Intelligence'/LLM" (6 hours). Roma Tre University. A.Y. 2024/2025.

2024-2025 Second-level Master "The Digital State," "Artificial Intelligence and Machine Learning" – course "Artificial Intelligence'/LLM" (6 hours). Roma Tre University. A.Y. 2024/2025.

2023-2024 First-level Master "Specialist Operator in Information and Communication Technologies (ICT)" – course "Artificial Intelligence" (27 hours), from February 5 to April 30, 2024. A.Y. 2023/2024.

2023-2022 Second-level Master "The Digital State," – "Artificial Intelligence and Machine Learning" (6 hours) as part of Teaching Module I: "The toolbox: an introduction to basic IT methodologies and technologies." Roma Tre University. A.Y. 2023/2022.

2022-2023 Second-level Master "The Digital State," – "Artificial Intelligence and Machine Learning" (6 hours) as part of Teaching Module I: "The toolbox: an introduction to basic IT methodologies and technologies." Roma Tre University. A.Y. 2022/2023.

2021-2022 Second-level Master "The Digital State," – "Artificial Intelligence and Machine Learning" (6 hours) as part of Teaching Module I: "The toolbox: an introduction to basic IT methodologies and technologies." Roma Tre University. A.Y. 2021/2022.

2006 "Chief Knowledge Officer – CKO" Master within the "KEEN-training" project – module "Information Filtering and User Modeling" (48 hours), delivered at Italdata SpA, from July 20, 2006 to September 15, 2006.

Participation in "Doctoral Consortium" Committees

2024 23rd International Conference of the Italian Association for Artificial Intelligence – AIxIA 2024. Bolzano. November 25–28, 2024.

2018 UMAP '18: 26th Conference on User Modeling, Adaptation and Personalization – ACM UMAP 2018. Singapore. July 8–11, 2018.

2017 UMAP '17: 25th Conference on User Modeling, Adaptation and Personalization – ACM UMAP 2017. Bratislava, Slovakia. July 9–12, 2017.

2016 UMAP '16: User Modeling, Adaptation and Personalization Conference – ACM UMAP 2016. Halifax, Canada. July 13–17, 2016.

2014 22nd Conference on User Modeling, Adaptation and Personalization – ACM UMAP 2014. Aalborg, Denmark. July 7–11, 2014.

2013 21st Conference on User Modeling, Adaptation and Personalization – UMAP 2013. Rome, Italy. June 10–14, 2013.

Other Activities

2025 Invited talk at the "2nd MecaNano Workshop on Machine Learning for Micro- and Nano-Mechanics," European Cooperation in Science and Technology (COST) Action 2022–2026. Tutorial title "AI methods for material science." Budapest, Hungary. September 4–5, 2025.

2024-2025 Training activities for the PRIN 2022 funded project "Hegelian constellations of the feminine: a hyper-archive for an inclusive Bildung" (from October 17, 2023 to October 16, 2025). Series of lectures on "Introduction to Machine and Deep Learning," delivered between October 2024 and February 2025, Rome, Italy.

2024 Member of the selection committee for the call "Samsung Innovation Campus 2024 – New Constellations of the Feminine" (Prot. 1920 of 22/08/2024). Appointment by the Director of the Department of Philosophy, Communication and Performing Arts, September 13, 2024, Roma Tre University.

2024 Invited lecture at the 22nd AIMAT School "Material Intelligence: from Smart Materials to Artificial Intelligence," titled "Introduction to Machine Learning and Data Science." Ischia, Naples. July 14–17, 2024.

PARTICIPATION IN PHD BOARDS OF ACCREDITED DOCTORAL PROGRAMS

2026-2076 Member of the PhD Board in "Computer Science and Automation," 42nd cycle – Department of Civil, Computer and Aerospace Technologies Engineering, Roma Tre University.

2025-2026 Member of the Evaluation Board for the Public Selection for Admission to the 41st Cycle of the PhD Programme in Computer Science and Automation - Department of Engineering, Roma Tre University

2025-2026 Member of the PhD Board in "Computer Science and Automation," 41st cycle – Department of Civil, Computer and Aerospace Technologies Engineering, Roma Tre University.

2024-2025 Member of the PhD Board in "Computer Science and Automation," 40th cycle – Department of Civil, Computer and Aerospace Technologies Engineering, Roma Tre University.

2023-2024 Deputy Coordinator and Member of the PhD Board in "Computer Science and Automation," 39th cycle – Department of Civil, Computer and Aerospace Technologies Engineering, Roma Tre University.

2022-2023 Deputy Coordinator and Member of the PhD Board in "Computer Science and Automation," 38th cycle – Department of Engineering, Roma Tre University.

2021-2022 Member of the Evaluation Board for the Public Selection for Admission to the 37th Cycle of the PhD Programme in Computer Science and Automation - Department of Engineering, Roma Tre University

2021-2022 Deputy Coordinator and Member of the PhD Board in "Computer Science and Automation," 37th cycle – Department of Engineering, Roma Tre University (since November 16, 2021).

2020-2021 Member of the PhD Board in "Computer Science and Automation," 36th cycle – Department of Engineering, Roma Tre University (since May 27, 2020).

ORGANIZATION OF INTERNATIONAL CONFERENCES AND WORKSHOPS

2025 Co-General Chair of the 5th Workshop on SOcial and Cultural IntegrAtion with PersonaLIZEd Interfaces (SOCIALIZE), held in conjunction with ACM Intelligent User Interfaces (IUI), Cagliari, Italy, March 24-27, 2025.

2024 Co-General Chair of the 4th Workshop on SOcial and Cultural IntegrAtion with PersonaLIZEd Interfaces (SOCIALIZE), held in conjunction with ACM Intelligent User Interfaces (IUI), Greenville, South Carolina, USA, March 18–21, 2024.

2023 Co-General Chair of the 3rd Workshop on SOcial and Cultural IntegrAtion with PersonaLIZEd Interfaces (SOCIALIZE), held in conjunction with ACM Intelligent User Interfaces (IUI), Sydney, NSW, Australia, March 27–31, 2023.

2022 Co-General Chair of the 2nd Workshop on SOcial and Cultural IntegrAtion with PersonaLIZEd Interfaces (SOCIALIZE), held in conjunction with ACM Intelligent User Interfaces (IUI), University of Helsinki, Finland, March 22–25, 2022.

2021 Co-General Chair of the 1st Workshop on SOcial and Cultural IntegrAtion with PersonaLIZEd Interfaces (SOCIALIZE), held in conjunction with ACM Intelligent User Interfaces (IUI), College Station (TX), USA, April 13, 2021.

2013 Member of the Organizing Committee as Local Organizer for the 21st Conference on User Modeling, Adaptation and Personalization (UMAP), Rome, Italy, June 10–14, 2013.

PROGRAM COMMITTEE SERVICE

The following is a selection of the last five years conferences and workshops.

2026 24th International Conference of the Italian Association for Artificial Intelligence - AIxIA 2026. Perugia, Italy. October 6-9, 2026.

2026 35th ACM International Conference on Information and Knowledge Management - CIKM. Coex, Seoul, Korea, November 7-11, 2026.

2026 20th ACM Conference on Recommender Systems - ACM RECSYS. Minneapolis, Minnesota, USA, September 28–October 2 2026, 2026.

2026 34th ACM Conference on User Modeling, Adaptation and Personalization. Cagliari - ACM UMAP. Gothenburg, Sweden, June 8 — 11, 2026.

2026 The ACM Web Conference 2026. Dubai, United Arab Emirates, April 13-17, 2026.

2025 34th ACM International Conference on Information and Knowledge Management - CIKM. Coex, Seoul, Korea, November 10-14, 2025.

2025 19th ACM Conference on Recommender Systems - ACM RECSYS. Prague, Czech Republic, September 22-26, 2025.

2025 33rd ACM Conference on User Modeling, Adaptation and Personalization - ACM UMAP, New York, USA, June 16-19 July, 2025

2024 23rd International Conference of the Italian Association for Artificial Intelligence - AIxIA 2024. Bolzano. November 25-28, 2024.

2024 33rd ACM International Conference on Information and Knowledge Management - CIKM. Boise, Idaho, USA, October 21-25, 2024.

2024 18th ACM Conference on Recommender Systems - ACM RECSYS. Bari, Italy, October 14-18, 2024.

2024 32nd ACM Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Cagliari, Sardinia, Italy, 1-4 July, 2024

2023 17th ACM Conference on Recommender Systems - ACM RECSYS. Singapore, September 18-22, 2023.

2023 31st Conference on User Modeling, Adaptation and Personalization - ACM UMAP 2023. Limassol, Cyprus, June 26-30, 2023.

2022 AIxPA 1st Workshop on AI for Public Administration. Udine, Italy, November 28 - December 2, 2022.

2022 30th Conference on User Modeling, Adaptation and Personalization - ACM UMAP 2022. Barcelona, Spain, July 4-7, 2022.

2021 20th International Conference of the Italian Association for Artificial Intelligence AIxIA2021, Milano, Italy, December 1-3, 2021.

2021 ACM CIKM 2021, the Conference on Information and Knowledge Management, November 1-5, 2021.

2021 29th Conference on User Modeling, Adaptation and Personalization - ACM UMAP 2021. Utrecht, the Netherlands, June 21-25, 2021.

EDITORIAL BOARD / GUEST EDITOR ROLES IN RELEVANT INTERNATIONAL JOURNALS

2018 Journal of Mobile Information Systems - Lead Guest Editor della *Special issue on Advances in Personalized Mobile Services* ([**si1**]) (ISSN 1574-017X)

2017 Journal of Personal and Ubiquitous Computing - Guest Editor of *Special issue on Mining Social Networks for Local Search and Location-based Recommender Systems* ([**si2**]) (ISSN 1617-4909)

PATENTS

2013- Co-inventor on patent US8606781 B2 (Status: Granted) in the field of Computer Science, titled "Systems and methods for personalized search." Filing year 2005 – Grant year 2013 – Expiry year 2029.
Abstract: "Techniques are presented to provide personalized search results to a user. A user history optionally classified into projects or tasks is determined. A profile for the user is determined by identifying keywords, concepts or other user and/or task specific descriptors within user history documents. A proximal neighborhood based on the user's history and adjustable crawling parameters is determined. The adjustable crawling parameters define which documents linked to documents in the user history are included within the proximal neighborhood. A user query is determined and used to search the set of documents within the proximal neighborhood. The results are then ranked based on the user profile information. The ranked results are optionally displayed to the user."
The ownership extends to the following patent family:
– EP-1717720-A1 "Discovery of Related Documents Based on a Proximal Neighborhood Measure"
– JP-2007149057-A "Systems and Methods for Personalized Search"

EVALUATOR OF FUNDING PROPOSALS

2025 Evaluator in the "Galileo" program funded by the Italian Ministry of University and Research (MUR) for Italy, and by the Ministère de l'Europe et des Affaires étrangères (MEAE) and the Ministère de l'Enseignement supérieur et de la Recherche (MESR) for France. Evaluation activity completed on July 28, 2025.

2025 Evaluator in the Italo–French / Université Franco Italienne (UIF/UFI) "Vinci" program. Evaluation activity completed on March 31, 2025.

2024 Member of the Evaluation Committee for the cascade call "ECS Rome Technopole – Spoke 3," DR no. 389/2024. Evaluation activity completed on April 22, 2024.

2020-2021 Evaluator in the Italo–French / Université Franco Italienne (UIF/UFI) "Vinci" program. Invitation accepted in May 2020.

2018 Evaluator in the "TOP Grant" program of the Netherlands Organisation for Scientific Research (NWO). Invitation accepted on July 31, 2018.

OTHER INSTITUTIONAL RESPONSIBILITIES

2026- Head of the Artificial Intelligence group, Department of Civil, Computer and Aerospace Technologies Engineering – Roma Tre University. URL: https://ailabroma3.it/, from November 1, 2026

2026 Member of the jury of the 3rd edition of the Most Promising Researcher in Robotics and Artificial Intelligence award - Romecup2026, Rome, Italy. URL: https://www.romecup.org/

2024- Quality Assurance Manager (RAQ) for Third Mission activities, Department of Civil, Computer and Aerospace Technologies Engineering – Roma Tre University. From November 22, 2024 to December 31, 2027

2024- Head of the "Artificial Intelligence Laboratory," Department of Civil, Computer and Aerospace Technologies Engineering – Roma Tre University. URL: https://ailabroma3.it/

2022- Member of the Study Plans and Student Practices Committee – Computer Engineering Teaching Board, Roma Tre University. From July 22, 2022.

2022- Member of the Admission Evaluation Committee for the MSc in Computer Engineering – Computer Engineering Teaching Board, Roma Tre University.
From July 22, 2022.

2018- Member of SIGCHI Italy, the Italian ACM SIGCHI Chapter. http://sigchitaly.eu/

2017–2018 Member of the Artificial Intelligence Task Force promoted by the Italian Digital Agency (AgID), the technical agency of the Presidency of the Council of Ministers. The mission of the task force is to define recommendations and guidelines for the Italian public administration stemming from recent innovations and scientific results in Artificial Intelligence research. Joined the coordinating group of the Task Force after a national selection by AgID, with a positive outcome communicated on July 26, 2017. URL: https://www.agid.gov.it/it/agenzia/stampa-e-comunicazione/focus/intelligenza-artificiale

PUBLICATIONS

International journals

[j17] Alessio Ferrato, Fabio Gasparetti, Carla Limongelli, Stefano Mastandrea, Giuseppe Sansonetti, and Joaquín Torres-Sospedra. Indoor positioning, localization, and navigation systems for cultural heritage: A five-year systematic review. *Internet Things*, 39:102011, 2026. doi: 10.1016/J.IOT.2026.102011. URL https://doi.org/10.1016/j.iot.2026.102011

[j16] Elisa de Paola, Roberto Camussi, Fabio Gasparetti, Alessandro Di Marco, Luana G. Stoica, Giorgia Capobianchi, and Fabio Paglia. Predicting wall pressure fluctuations on aerospace launchers through machine learning approaches. *Aerospace*, 11(12), 2024. doi: 10.3390/aerospace11120972. URL https://doi.org/10.3390/aerospace11120972

[j15] Fabio Gasparetti. Discovering prerequisite relations from educational documents through word embeddings. *Future Generation Computer Systems*, 127:31–41, 2022. ISSN 0167-739X. doi: 10.1016/j.future.2021.08.021. URL https://doi.org/10.1016/j.future.2021.08.021

[j14] Giuseppe Sansonetti, Fabio Gasparetti, Giuseppe D'Aniello, and Alessandro Micarelli. Unreliable users detection in social media: Deep learning techniques for automatic detection. *IEEE Access*, 8(-):213154–213167, 2020. ISSN 2169-3536. doi: 10.1109/ACCESS.2020.3040604. URL https://doi.org/10.1109/ACCESS.2020.3040604

[j13] Fabio Gasparetti, Giuseppe Sansonetti, and Alessandro Micarelli. Community detection in social recommender systems: a survey. *Applied Intelligence*, 51(6):3975–3995, 2021. ISSN 1573-7497. doi: 10.1007/s10489-020-01962-3. URL https://doi.org/10.1007/s10489-020-01962-3

[j12] Fabio Gasparetti, Luca Maria Aiello, and Daniele Quercia. Personalized weight loss strategies by mining activity tracker data. *User Modeling and User-Adapted Interaction*, 30(3):447 – 476, 2020. ISSN 0924-1868. doi: 10.1007/s11257-019-09242-7. URL https://doi.org/10.1007/s11257-019-09242-7. Cited by: 9

[j11] Giuseppe Sansonetti, Fabio Gasparetti, Alessandro Micarelli, Federica Cena, and Cristina Gena. Enhancing cultural recommendations through social and linked open data. *User Modeling and User-Adapted Interaction*, 29(1):121–159, 2019. ISSN 0924-1868. doi: 10.1007/s11257-019-09225-8. URL https://doi.org/10.1007/s11257-019-09225-8

[j10] Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Temporal people-to-people recommendation on social networks with sentiment-based matrix factorization. *Future Generation Computer Systems*, 78:430–439, 2018. ISSN 0167-739X. doi: 10.1016/j.future.2017.03.020. URL http://dx.doi.org/10.1016/j.future.2017.03.020

[j9] Fabio Gasparetti, Carlo De Medio, Carla Limongelli, Filippo Sciarrone, and Marco Temperini. Prerequisites between learning objects: Automatic extraction based on a machine learning approach. *Telematics and Informatics*, 35(3):595–610, 2018. ISSN 0736-5853. doi: 10.1016/j.tele.2017.05.007. URL https://doi.org/10.1016/j.tele.2017.05.007

[j8] Fabio Gasparetti. Personalization and context-awareness in social local search: State-of-the-art and future research challenges. *Pervasive and Mobile Computing*, 38(2):446–473, 2017. ISSN 1574-1192. doi: 10.1016/j.pmcj.2016.04.004. URL http://dx.doi.org/10.1016/j.pmcj.2016.04.004

[j7] Fabio Gasparetti. Modeling user interests from web browsing activities. *Data Mining and Knowledge Discovery*, 31(2):502–547, 2017. ISSN 1384-5810. doi: 10.1007/s10618-016-0482-x. URL http://dx.doi.org/10.1007/s10618-016-0482-x

[j6] Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Social semantic query expansion. *ACM TIST*, 4(4):60:1–60:43, 2013. ISSN 2157-6904. doi: 10.1145/2508037.2508041. URL http://dx.doi.org/10.1145/2508037.2508041

[j5] Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. An approach to social recommendation for context-aware mobile services. *ACM TIST*, 4(1):10:1–10:31,

2013. ISSN 2157-6904. doi: 10.1145/2414425.2414435. URL http://dx.doi.org/10.1145/2414425.2414435

[j4] Fabio Gasparetti, Alessandro Micarelli, and Filippo Sciarrone. A web-based training system for business letter writing. *Knowledge-Based Systems*, 22(4):287–291, 2009. ISSN 0950-7051. doi: 10.1016/j.knosys.2009.01.005. URL http://dx.doi.org/10.1016/j.knosys.2009.01.005

[j3] Alessandro Micarelli, Filippo Sciarrone, and Fabio Gasparetti. A case-based approach to adaptive hypermedia navigation. *IJWLTT*, 4(1):35–53, 2009. doi: 10.4018/jwltt.2009010103. URL http://dx.doi.org/10.4018/jwltt.2009010103

[j2] Fabio Gasparetti, Alessandro Micarelli, and Filippo Sciarrone. Towards cognitive modeling of user needs in web browsing activities. *Cognitive Systems (ESSCS)*, 7:139–164, July 2009. ISSN 0256-663X

[j1] Fabio Gasparetti and Alessandro Micarelli. Personalized search based on a memory retrieval theory. *IJPRAI*, 21(2):207–224, 2007. doi: 10.1142/S0218001407005429. URL http://dx.doi.org/10.1142/S0218001407005429

Book Chapters

[b5] Carla Limongelli, Carlo De Medio, Omar Elsayed, Fabio Gasparetti, Filippo Sciarrone, and Marco Temperini. Sistemi intelligenti per l'e-learning. In Francesco Agrusti, editor, *Educazione e intelligenza artificiale*, pages 73–80. RomaTrE-Press, Rome, Italy, 2023. ISBN 979-12-5977-257-2

[b4] Fabio Gasparetti and Alessandro Micarelli. A deep evaluation of two cognitive user models for personalized search. In Gulden Uchyigit and Matthew Y. Ma, editors, *Personalization Techniques and Recommender Systems*, volume 70 of *Series in Machine Perception and Artificial Intelligence*, pages 33–60. WorldScientific, 2008. ISBN 978-981-279-701-8. doi: 10.1142/9789812797025_0002. URL http://dx.doi.org/10.1142/9789812797025_0002

[b3] Alessandro Micarelli and Fabio Gasparetti. Adaptive focused crawling. In Peter Brusilovsky, Alfred Kobsa, and Wolfgang Nejdl, editors, *The Adaptive Web, Methods and Strategies of Web Personalization*, volume 4321 of *Lecture Notes in Computer Science*, pages 231–262. Springer, 2007. ISBN 978-3-540-72078-2. doi: 10.1007/978-3-540-72079-9_7. URL http://dx.doi.org/10.1007/978-3-540-72079-9_7

[b2] Alessandro Micarelli, Fabio Gasparetti, Filippo Sciarrone, and Susan Gauch. Personalized search on the world wide web. In Peter Brusilovsky, Alfred Kobsa, and Wolfgang Nejdl, editors, *The Adaptive Web, Methods and Strategies of Web Personalization*, volume 4321 of *Lecture Notes in Computer Science*, pages 195–230. Springer, 2007. ISBN 978-3-540-72078-2. doi: 10.1007/978-3-540-72079-9_6. URL http://dx.doi.org/10.1007/978-3-540-72079-9_6

[b1] Alessandro Micarelli, Fabio Gasparetti, and Claudio Biancalana. Intelligent search on the internet. In Oliviero Stock and Marco Schaerf, editors, *Reasoning, Action and Interaction in AI Theories and Systems, Essays Dedicated to Luigia Carlucci Aiello*, volume 4155 of *Lecture Notes in Computer Science*, pages 247–264. Springer, 2006. ISBN 3-540-37901-0. doi: 10.1007/11829263_14. URL http://dx.doi.org/10.1007/11829263_14

International Conferences

I contributi elencati sono stati sottoposti a valutazione di esperti anonimi (peer review).

[c40] Giuseppe Sansonetti, Fabio Gasparetti, and Alessandro Micarelli. A machine learning approach to prediction of online reviews reliability. In Adela Coman and Simona Vasilache, editors, *Social Computing and Social Media*, pages 131–145, Cham, 2023. Springer Nature Switzerland. ISBN 978-3-031-35915-6. doi: 10.1007/978-3-031-35915-6_11. URL https://doi.org/10.1007/978-3-031-35915-6_11

[c39] Marco Botticelli, Fabio Gasparetti, Filippo Sciarrone, and Marco Temperini. Deep learning to monitor massive open online courses dynamics. In Fernando De la Prieta, Rosella Gennari, Marco Temperini, Tania Di Mascio, Pierpaolo Vittorini, Zuzana Kubincova, Elvira Popescu, Davide Rua Carneiro, Loreto Lancia, and Agnese Addone, editors, *Methodologies and Intelligent Systems for Technology Enhanced Learning, 11th International Conference*, pages 114–123, Cham, 2022. Springer International Publishing. ISBN 978-3-030-86618-1. doi: 10.1007/978-3-030-86618-1_12. URL http://dx.doi.org/10.1007/978-3-030-86618-1_12

[c38] Fabio Gasparetti, Filippo Sciarrone, and Marco Temperini. Using graph embedding to monitor communities of learners. In Alexandra I. Cristea and Christos Troussas, editors, *Intelligent Tutoring Systems*, pages 350–356, Cham, 2021. Springer International Publishing. ISBN 978-3-030-80421-3. doi: 10.1007/978-3-030-80421-3_38. URL https://doi.org/10.1007/978-3-030-80421-3_38

[c37] Giuseppe Sansonetti, Fabio Gasparetti, and Alessandro Micarelli. Using social media for personalizing the cultural heritage experience. In Judith Masthoff, Eelco Herder, Nava Tintarev, and Marko Tkalcic, editors, *Adjunct Publication of the 29th ACM Conference on User Modeling, Adaptation and Personalization, UMAP 2021, Utrecht, The Netherlands, June 21-25, 2021*, pages 189–193. ACM, 2021. doi: 10.1145/3450614.3463387. URL https://doi.org/10.1145/3450614.3463387

[c36] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, and Filippo Sciarrone. A social approach to a wiki course building. In Anna Visvizi, Miltiadis D. Lytras, and Naif R. Aljohani, editors, *Research and Innovation Forum 2020 - Disruptive Technologies in Times of Change, RIIFORUM 2020, Athens, Greece, 15-17 April 2020*, pages 291–301. Springer, 2020. doi: 10.1007/978-3-030-62066-0_22. URL https://doi.org/10.1007/978-3-030-62066-0_22

[c35] Hebatallah A. Mohamed Hassan, Giuseppe Sansonetti, Fabio Gasparetti, Alessandro Micarelli, and Jöran Beel. Bert, elmo, USE and infersent sentence encoders: The panacea for research-paper recommendation? In Marko Tkalcic and Sole Pera, editors, *Proceedings of ACM RecSys 2019 Late-Breaking Results co-located with the 13th ACM Conference on Recommender Systems, RecSys 2019 Late-Breaking Results, Copenhagen, Denmark, September 16-20, 2019*, volume 2431 of *CEUR Workshop Proceedings*, pages 6–10. CEUR-WS.org, 2019. URL http://ceur-ws.org/Vol-2431/paper2.pdf

[c34] Fabio Gasparetti, Luca Maria Aiello, and Daniele Quercia. Evaluating the efficacy of traditional fitness tracker recommendations. In *Proceedings of the 24th International Conference on Intelligent User Interfaces: Companion*, IUI '19, pages 15–16, Los Angeles, USA, 2019. ACM. ISBN 978-1-4503-6673-1. doi: 10.1145/3308557.3308716. URL http://doi.acm.org/10.1145/3308557.3308716

[c33] Giuseppe Sansonetti, Fabio Gasparetti, and Alessandro Micarelli. Cross-domain recommendation for enhancing cultural heritage experience. In George Angelos Papadopoulos, George Samaras, Stephan Weibelzahl, Dietmar Jannach, and Olga C. Santos, editors, *Adjunct Publication of the 27th Conference on User Modeling, Adaptation and Personalization, UMAP 2019, Larnaca, Cyprus, June 09-12, 2019*, pages 413–415. ACM, 2019. doi: 10.1145/3314183.3323869. URL https://doi.org/10.1145/3314183.3323869

[c32] Hebatallah A. Mohamed Hassan, Giuseppe Sansonetti, Fabio Gasparetti, and Alessandro Micarelli. Semantic-based tag recommendation in scientific bookmarking systems. In *Proceedings of the 12th ACM Conference on Recommender Systems*, RecSys '18, pages 465–469, New

York, NY, USA, 2018. ACM. ISBN 978-1-4503-5901-6. doi: 10.1145/3240323.3240409. URL http://doi.org/10.1145/3240323.3240409

[c31] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, and Filippo Sciarrone. Modeling teachers and learning materials: A comparison among similarity metrics. In *2018 22nd International Conference Information Visualisation (IV)*, pages 536–541, Salerno, Italy, 2018. doi: 10.1109/iV.2018.00099. URL https://doi.org/10.1109/iV.2018.00099

[c30] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, and Filippo Sciarrone. Automatic extraction and sequencing of wikipedia pages for smart course building. In *21st International Conference Information Visualisation, IV 2017, London, United Kingdom, July 11-14, 2017*, pages 378–383. IEEE Computer Society, 2017. ISBN 978-1-5386-0831-9. doi: 10.1109/iV.2017.75. URL https://doi.org/10.1109/iV.2017.75

[c29] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Filippo Sciarrone, and Marco Temperini. Course-driven teacher modeling for learning objects recommendation in the moodle lms. In *Adjunct Publication of the 25th Conference on User Modeling, Adaptation and Personalization*, UMAP '17, pages 141–145, New York, NY, USA, 2017. ACM. ISBN 978-1-4503-5067-9. doi: 10.1145/3099023.3099037. URL http://dx.doi.org/10.1145/3099023.3099037

[c28] Alessandro Bonifacio, Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Implicit evaluation of user's expertise in scientific domains. In Constantine Stephanidis, editor, *HCI International 2017 – Posters' Extended Abstracts: 19th International Conference, HCI International 2017, Vancouver, BC, Canada, July 9–14, 2017, Proceedings, Part I*, pages 420–427, Cham, 2017. Springer International Publishing. ISBN 978-3-319-58750-9. doi: 10.1007/978-3-319-58750-9_58. URL https://doi.org/10.1007/978-3-319-58750-9_58

[c27] Giuseppe Sansonetti, Davide Feltoni Gurini, Fabio Gasparetti, and Alessandro Micarelli. Dynamic social recommendation. In *Proceedings of the 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2017*, ASONAM '17, pages 943–947, Sydney, Australia, 2017. ACM. ISBN 978-1-4503-4993-2. doi: 10.1145/3110025.3110149. URL http://dx.doi.org/10.1145/3110025.3110149

[c26] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Matteo Lombardi, Alessandro Marani, Filippo Sciarrone, and Marco Temperini. Towards a characterization of educational material: An analysis of coursera resources. In Ting-Ting Wu, Rosella Gennari, Yueh-Min Huang, Haoran Xie, and Yiwei Cao, editors, *Emerging Technologies for Education. First International Symposium, SETE 2016, Held in Conjunction with ICWL 2016, Rome, Italy, October 26-29, 2016, Revised Selected Papers*, volume 10108 of *Lecture Notes in Computer Science*, pages 547–557. Springer International Publishing, 2017. ISBN 978-3-319-52836-6. doi: 10.1007/978-3-319-52836-6_58. URL http://dx.doi.org/10.1007/978-3-319-52836-6_58

[c25] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Filippo Sciarrone, and Marco Temperini. Automatic extraction of prerequisites among learning objects using wikipedia-based content analysis. In Alessandro Micarelli, John C. Stamper, and Kitty Panourgia, editors, *Intelligent Tutoring Systems - 13th International Conference, ITS 2016, Zagreb, Croatia, June 7-10, 2016. Proceedings*, volume 9684 of *Lecture Notes in Computer Science*, pages 375–381. Springer, 2016. ISBN 978-3-319-39582-1. doi: 10.1007/978-3-319-39583-8_44. URL http://dx.doi.org/10.1007/978-3-319-39583-8_44

[c24] Dario D'Agostino, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. A social context-aware recommender of itineraries between relevant points of interest. In Constantine Stephanidis, editor, *HCI International 2016 - Posters' Extended Abstracts - 18th International Conference, HCI International 2016, Toronto, Canada, July 17-22, 2016, Proceedings, Part II*, volume 618 of *Communications in Computer and Information Science*, pages 354–359. Springer, 2016. ISBN 978-3-319-40541-4. doi: 10.1007/978-3-319-40542-1_58. URL http://dx.doi.org/10.1007/978-3-319-40542-1_58

[c23] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Filippo Sciarrone, and Marco Temperini. Mining prerequisite relationships among learning objects. In Constantine Stephanidis, editor,

HCI International 2016 - Posters' Extended Abstracts - 18th International Conference, HCI International 2016, Toronto, Canada, July 17-22, 2016, Proceedings, Part II, volume 618 of *Communications in Computer and Information Science*, pages 221–225. Springer, 2016. ISBN 978-3-319-40541-4. doi: 10.1007/978-3-319-40542-1_35. URL http://dx.doi.org/10.1007/978-3-319-40542-1_35

[c22] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Matteo Lombardi, Alessandro Marani, Filippo Sciarrone, and Marco Temperini. Discovering prerequisite relationships among learning objects: A coursera-driven approach. In Dickson K. W. Chiu, Ivana Marenzi, Umberto Nanni, Marc Spaniol, and Marco Temperini, editors, *Advances in Web-Based Learning - ICWL 2016 - 15th International Conference, Rome, Italy, October 26-29, 2016, Proceedings*, volume 10013 of *Lecture Notes in Computer Science*, pages 261–265, 2016. ISBN 978-3-319-47439-7. doi: 10.1007/978-3-319-47440-3_29. URL http://dx.doi.org/10.1007/978-3-319-47440-3_29

[c21] Fabio Gasparetti, Carla Limongelli, Alessandra Milita, Filippo Sciarrone, and Andrea Tarantini. Sequencing wikipedia pages: An on-the-fly approach to course building. In James Onohuome Uhomoibhi, Gennaro Costagliola, Susan Zvacek, and Bruce M. McLaren, editors, *CSEDU 2016 - Proceedings of the 8th International Conference on Computer Supported Education, Volume 1, Rome, Italy, April 21-23, 2016.*, pages 397–404. SciTePress, 2016. doi: 10.5220/0005815203970404. URL http://dx.doi.org/10.5220/0005815203970404

[c20] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Filippo Sciarrone, and Marco Temperini. A machine learning approach to identify dependencies among learning objects. In James Onohuome Uhomoibhi, Gennaro Costagliola, Susan Zvacek, and Bruce M. McLaren, editors, *CSEDU 2016 - Proceedings of the 8th International Conference on Computer Supported Education, Volume 1, Rome, Italy, April 21-23, 2016.*, pages 345–352. SciTePress, 2016. doi: 10.5220/0005800503450352. URL http://dx.doi.org/10.5220/0005800503450352

[c19] Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Enhancing social recommendation with sentiment communities. In Jianyong Wang, Wojciech Cellary, Dingding Wang, Hua Wang, Shu-Ching Chen, Tao Li, and Yanchun Zhang, editors, *Web Information Systems Engineering - WISE 2015 - 16th International Conference, Miami, FL, USA, November 1-3, 2015, Proceedings, Part II*, volume 9419 of *Lecture Notes in Computer Science*, pages 308–315. Springer, 2015. ISBN 978-3-319-26186-7. doi: 10.1007/978-3-319-26187-4_28. URL http://dx.doi.org/10.1007/978-3-319-26187-4_28

[c18] Fabio Gasparetti, Carla Limongelli, and Filippo Sciarrone. Exploiting wikipedia for discovering prerequisite relationships among learning objects. In *2015 International Conference on Information Technology Based Higher Education and Training, ITHET 2015, Lisbon, Portugal, June 11-13, 2015*, pages 1–6. IEEE, 2015. ISBN 978-1-4799-1756-3. doi: 10.1109/ITHET.2015.7218038. URL http://dx.doi.org/10.1109/ITHET.2015.7218038

[c17] Carla Limongelli, Fabio Gasparetti, and Filippo Sciarrone. Wiki course builder: A system for retrieving and sequencing didactic materials from wikipedia. In Peter Brusilovsky, Alfred Kobsa, and Wolfgang Nejdl, editors, *2015 International Conference on Information Technology Based Higher Education and Training, ITHET 2015, Lisbon, Portugal, June 11-13, 2015*, volume 4321 of *Lecture Notes in Computer Science*, pages 1–6. Springer, 2015. ISBN 978-3-540-72078-2. doi: 10.1109/ITHET.2015.7218041. URL http://dx.doi.org/10.1109/ITHET.2015.7218041

[c16] Fabio Gasparetti, Carla Limongelli, and Filippo Sciarrone. A content-based approach for supporting teachers in discovering dependency relationships between instructional units in distance learning environments. In Constantine Stephanidis, editor, *HCI International 2015 - Posters' Extended Abstracts - International Conference, HCI International 2015, Los Angeles, CA, USA, August 2-7, 2015. Proceedings, Part II*, volume 529 of *Communications in Computer and Information Science*, pages 241–246. Springer, 2015. ISBN 978-3-319-21382-8. doi: 10.1007/978-3-319-21383-5_41. URL http://dx.doi.org/10.1007/978-3-319-21383-5_41

[c15] Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. A social semantic approach to adaptive query expansion. In Valérie Monfort and Karl-Heinz Krempels, editors, *Web Information Systems and Technologies: 10th International Conference, WEBIST*

2014, Barcelona, Spain, April 3-5, 2014, Revised Selected Papers, pages 113–127. Springer International Publishing, Barcelona, Spain, 2015. ISBN 978-3-319-27030-2. doi: 10.1007/978-3-319-27030-2_8. URL http://dx.doi.org/10.1007/978-3-319-27030-2_8

[c14] Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Mining navigation histories for user need recognition. In Constantine Stephanidis, editor, *HCI International 2014 - Posters' Extended Abstracts - International Conference, HCI International 2014, Heraklion, Crete, Greece, June 22-27, 2014. Proceedings, Part I*, volume 434 of *Communications in Computer and Information Science*, pages 169–173. Springer, 2014. ISBN 978-3-319-07856-4. doi: 10.1007/978-3-319-07857-1_30. URL http://dx.doi.org/10.1007/978-3-319-07857-1_30

[c13] Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. iscur: Interest and sentiment-based community detection for user recommendation on twitter. In Vania Dimitrova, Tsvi Kuflik, David Chin, Francesco Ricci, Peter Dolog, and Geert-Jan Houben, editors, *User Modeling, Adaptation, and Personalization - 22nd International Conference, UMAP 2014, Aalborg, Denmark, July 7-11, 2014. Proceedings*, volume 8538 of *Lecture Notes in Computer Science*, pages 314–319. Springer, 2014. ISBN 978-3-319-08785-6. doi: 10.1007/978-3-319-08786-3_27. URL http://dx.doi.org/10.1007/978-3-319-08786-3_27

[c12] Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Socialsearch - A social platform for web 2.0 search. In Valérie Monfort and Karl-Heinz Krempels, editors, *WEBIST 2014 - Proceedings of the 10th International Conference on Web Information Systems and Technologies, Volume 1, Barcelona, Spain, 3-5 April, 2014*, pages 70–81. SciTePress, 2014. ISBN 978-989-758-023-9. doi: 10.5220/0004943000700081. URL http://dx.doi.org/10.5220/0004943000700081

[c11] Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. A general evaluation framework for adaptive focused crawlers. In Valérie Monfort and Karl-Heinz Krempels, editors, *WEBIST 2014 - Proceedings of the 10th International Conference on Web Information Systems and Technologies, Volume 2, Barcelona, Spain, 3-5 April, 2014*, pages 350–358. SciTePress, 2014. ISBN 978-989-758-024-6. doi: 10.5220/0004965903500358. URL http://dx.doi.org/10.5220/0004965903500358

[c10] Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Exploiting web browsing activities for user needs identification. In *2014 International Conference on Computational Science and Computational Intelligence*, volume 2, pages 86–89, Las Vegas, NV, USA, March 2014. doi: 10.1109/CSCI.2014.100. URL http://dx.doi.org/10.1109/CSCI.2014.100

[c9] Giuliano Arru, Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Signal-based user recommendation on twitter. In Leslie Carr, Alberto H. F. Laender, Bernadette Farias Lóscio, Irwin King, Marcus Fontoura, Denny Vrandecic, Lora Aroyo, José Palazzo M. de Oliveira, Fernanda Lima, and Erik Wilde, editors, *22nd International World Wide Web Conference, WWW '13, Rio de Janeiro, Brazil, May 13-17, 2013, Companion Volume*, pages 941–944. International World Wide Web Conferences Steering Committee / ACM, 2013. ISBN 978-1-4503-2038-2. URL http://dl.acm.org/citation.cfm?id=2488088

[c8] Davide Feltoni Gurini and Fabio Gasparetti. TREC microblog 2012 track: Real-time ranking algorithm for microblog ranking systems. In Ellen M. Voorhees and Lori P. Buckland, editors, *Proceedings of The Twenty-First Text REtrieval Conference, TREC 2012, Gaithersburg, Maryland, USA, November 6-9, 2012*, volume Special Publication 500-298. National Institute of Standards and Technology (NIST), 2012. URL http://trec.nist.gov/pubs/trec21/papers/AI_ROMA3.microblog.final.pdf

[c7] Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Enhancing query expansion through folksonomies and semantic classes. In *2012 International Conference on Privacy, Security, Risk and Trust, PASSAT 2012, and 2012 International Confernece on Social Computing, SocialCom 2012, Amsterdam, Netherlands, September 3-5, 2012*, pages 611–616. IEEE, 2012. ISBN 978-1-4673-5638-1. doi: 10.1109/SocialCom-PASSAT.2012.67. URL http://dx.doi.org/10.1109/SocialCom-PASSAT.2012.67

[c6] Fabio Gasparetti, Claudio Biancalana, Alessandro Micarelli, Alfonso Miola, and Giuseppe Sansonetti. Wavelet-based music recommendation. In Karl-Heinz Krempels and José Cordeiro, editors, *WEBIST 2012 - Proceedings of the 8th International Conference on Web Information Systems and Technologies, Porto, Portugal, 18 - 21 April, 2012*, pages 399–402. SciTePress, 2012. ISBN 978-989-8565-08-2. doi: 10.5220/0003940903990402. URL http://dx.doi.org/10.5220/0003940903990402

[c5] Claudio Biancalana, Andrea Flamini, Fabio Gasparetti, Alessandro Micarelli, Samuele Millevolte, and Giuseppe Sansonetti. Enhancing traditional local search recommendations with context-awareness. In Joseph A. Konstan, Ricardo Conejo, José-Luis Marzo, and Nuria Oliver, editors, *User Modeling, Adaption and Personalization - 19th International Conference, UMAP 2011, Girona, Spain, July 11-15, 2011. Proceedings*, volume 6787 of *Lecture Notes in Computer Science*, pages 335–340. Springer, 2011. ISBN 978-3-642-22361-7. doi: 10.1007/978-3-642-22362-4_29. URL http://dx.doi.org/10.1007/978-3-642-22362-4_29

[c4] Claudio Biancalana, Fabio Gasparetti, and Alessandro Micarelli. Personalization in virtual enterprises. In Joaquim Filipe and José Cordeiro, editors, *WEBIST 2009 - Proceedings of the Fifth International Conference on Web Information Systems and Technologies, Lisbon, Portugal, March 23-26, 2009*, pages 581–584. INSTICC Press, 2009. ISBN 978-989-8111-81-4. doi: 10.5220/0001842905810584. URL http://dx.doi.org/10.5220/0001842905810584

[c3] Fabio Gasparetti and Alessandro Micarelli. Exploiting web browsing histories to identify user needs. In David N. Chin, Michelle X. Zhou, Tessa A. Lau, and Angel R. Puerta, editors, *Proceedings of the 12th International Conference on Intelligent User Interfaces, IUI 2007, Honolulu, Hawaii, USA, January 28-31, 2007*, pages 325–328. ACM, 2007. ISBN 1-59593-481-2. doi: 10.1145/1216295.1216358. URL http://dx.doi.org/10.1145/1216295.1216358

[c2] Fabio Gasparetti, Matteo Gaeta, and Alessandro Micarelli. Finding information on the web: Enhancing traditional methodologies. In Jose V. Carrasquero, editor, *Proceedings of the International Conference on Politics and Information Systems: Technologies and Applications (PISTA '04)*, pages 1–4, Orlando, Florida, USA, 2004. IIIS. ISBN 9789806560215

[c1] Fabio Gasparetti and Alessandro Micarelli. Swarm intelligence: Agents for adaptive web search. In Ramon López de Mántaras and Lorenza Saitta, editors, *Proceedings of the 16th Eureopean Conference on Artificial Intelligence, ECAI'2004, including Prestigious Applicants of Intelligent Systems, PAIS 2004, Valencia, Spain, August 22-27, 2004*, pages 1019–1020. IOS Press, 2004. ISBN 1-58603-452-9

International Workshops (peer reviewed)

I contributi elencati sono stati accettati con valutazione di esperti anonimi (peer review).

[w17] Alessio Ferrato, Carla Limongelli, Fabio Gasparetti, Giuseppe Sansonetti, and Alessandro Micarelli. Exploring the potential of multimodal large language models for question answering on artworks. In *Adjunct Proceedings of the 33rd ACM Conference on User Modeling, Adaptation and Personalization, UMAP Adjunct 2025, New York City, NY, USA, June 16-19, 2025*, pages 432–436. ACM, 2025. doi: 10.1145/3708319.3733648. URL https://doi.org/10.1145/3708319.3733648

[w16] Gian Marco Francavilla, Giuseppe Sansonetti, Fabio Gasparetti, and Alessandro Micarelli. A comparative analysis of social media content on migration in italy and the united states (short paper). In Dorota Glowacka, Carmen Santoro, and Ziang Xiao, editors, *Joint Proceedings of the ACM IUI 2025 Workshops co-located with the 30th Annual ACM Conference on Intelligent User Interfaces (IUI 2025), Cagliari, Italy, March 24th, 2025*, volume 3957 of *CEUR Workshop Proceedings*, pages 497–505. CEUR-WS.org, 2025. URL https://ceur-ws.org/Vol-3957/SOCIALIZE-paper06.pdf

[w15] Fabio Gasparetti, Giuseppe Sansonetti, and Alessandro Micarelli. Tourism recommender systems as a vehicle for social and cultural inclusion. In Dorota Glowacka and Vinayak R. Krishnamurthy, editors, *Joint Proceedings of the ACM IUI 2021 Workshops co-located with 26th*

ACM Conference on Intelligent User Interfaces (ACM IUI 2021), College Station, United States, April 13-17, 2021, volume 2903 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2021. URL https://ceur-ws.org/Vol-2903/IUI21WS-SOCIALIZE-5.pdf

[w14] Daria Marrone, Giuseppe Sansonetti, Fabio Gasparetti, and Alessandro Micarelli. Cultural impact on digital ecosystems: Exploring user activity in italy and the usa during the covid-19 pandemic. In *SOCIALIZE and HUMANIZE Combined Workshos. Workshops at the International Conference on Intelligent User Interfaces (IUI) 2024. Joint Proceedings of the ACM IUI 2024 Workshops co-located with the 29th Annual ACM Conference on Intelligent User Interfaces (IUI 2024)*, 2024. URL https://ceur-ws.org/Vol-3660/paper24.pdf

[w13] Alessio De Angelis, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. A social cultural recommender based on linked open data. In Mária Bieliková, Eelco Herder, Federica Cena, and Michel C. Desmarais, editors, *Adjunct Publication of the 25th Conference on User Modeling, Adaptation and Personalization, UMAP 2017, Bratislava, Slovakia, July 09 - 12, 2017*, pages 329–332. ACM, 2017. ISBN 978-1-4503-5067-9. doi: 10.1145/3099023.3099092. URL http://dx.doi.org/10.1145/3099023.3099092

[w12] Claudio Biancalana, Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Machine learning and data mining techniques for efficient social recommender systems. In Claudio Gallicchio Alessio Micheli, editor, *5th Italian Workshop on Machine Learning and Data Mining MLDM.it - Workshop of the XV AI*IA Conference of the Italian Association for Artificial Intelligence*, Genoa, Italy, 2016

[w11] Michele Galli, Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Analysis of user-generated content for improving youtube video recommendation. In Pablo Castells, editor, *Poster Proceedings of the 9th ACM Conference on Recommender Systems, RecSys 2015, Vienna, Austria, September 16, 2015.*, volume 1441 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2015. URL http://ceur-ws.org/Vol-1441/recsys2015_poster3.pdf

[w10] Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Analysis of sentiment communities in online networks. In Christoph Trattner, Denis Parra, Peter Brusilovsky, and Leandro Balby Marinho, editors, *Proceedings of the International Workshop on Social Personalisation & Search, SPS 2015, co-located with the 38th Annual ACM SIGIR Conference (SIGIR 2015), Santiago de Chile, Chile, August 9-13, 2015.*, volume 1421 of *CEUR Workshop Proceedings*, pages 17–20. CEUR-WS.org, 2015. URL http://ceur-ws.org/Vol-1421/paper4.pdf

[w9] Davide Feltoni Gurini, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. A sentiment-based approach to twitter user recommendation. In Bamshad Mobasher, Dietmar Jannach, Werner Geyer, Jill Freyne, Andreas Hotho, Sarabjot Singh Anand, and Ido Guy, editors, *Proceedings of the Fifth ACM RecSys Workshop on Recommender Systems and the Social Web co-located with the 7th ACM Conference on Recommender Systems (RecSys 2013), Hong Kong, China, October 13, 2013.*, volume 1066 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2013. URL http://ceur-ws.org/Vol-1066/Paper5.pdf

[w8] Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, Alfonso Miola, and Giuseppe Sansonetti. Folksonomy-based adaptive query expansion. In Eelco Herder, Kalina Yacef, Li Chen, and Stephan Weibelzahl, editors, *Workshop and Poster Proceedings of the 20th Conference on User Modeling, Adaptation, and Personalization, Montreal, Canada, July 16-20, 2012*, volume 872 of *CEUR Workshop Proceedings*, Montreal, Canada, 2012. CEUR-WS.org. URL http://ceur-ws.org/Vol-872/srs2012_paper_1.pdf

[w7] Claudio Biancalana, Fabio Gasparetti, Alessandro Micarelli, Alfonso Miola, and Giuseppe Sansonetti. Context-aware movie recommendation based on signal processing and machine learning. In *Proceedings of the 2nd Challenge on Context-Aware Movie Recommendation, event part of the 5th ACM Conference on Recommender Systems*, CAMRa '11, page 5–10, Chicago, Illinois, USA, 2011. Association for Computing Machinery. ISBN 9781450308250. doi: 10.1145/2096112.2096114. URL https://doi.org/10.1145/2096112.2096114

[w6] Alfredo Di Napoli, Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. A step toward personalized social geotagging. In *Proceedings of the 15th International Conference on Intelligent User Interfaces. Workshop on social recommender systems.*, IUI '10, Hong Kong, China, 2010. Association for Computing Machinery

[w5] Claudio Biancalana, Fabio Gasparetti, and Alessandro Micarelli. Knowledge retrieval and personalization in virtual enterprises. In *WMSCI 2008 - The 12th World Multi-Conference on Systemics, Cybernetics and Informatics, Jointly with the 14th International Conference on Information Systems Analysis and Synthesis, ISAS 2008 - Proc.*, volume 6, pages 195–201, Orlando, Florida, USA, 2008

[w4] Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Towards modeling of information needs in web-browsing activities. In *Proceedings of the 25th Annual Workshop of European Society for the Study of Cognitive Systems*, Genova, Italy, 2008

[w3] Fabio Gasparetti andand Alessandro Micarelli. User profile generation based on a memory retrieval theory. In *Proceedings of the 1st International Workshop on Web Personalization, Recommender Systems and Intelligent User Interfaces, WPRSIUI 2005*, pages 3–7, Reading, United Kingdom, 2005

[w2] Fabio Gasparetti and Alessandro Micarelli. Adaptive web search based on a colony of cooperative distributed agents. In Matthias Klusch, Sascha Ossowski, Andrea Omicini, and Heimo Laamanen, editors, *Cooperative Information Agents VII, 7th International Workshop, CIA 2003, Helsinki, Finland, August 27-29, 2003, Proceedings*, volume 2782 of *Lecture Notes in Computer Science*, pages 168–183. Springer, 2003. ISBN 3-540-40798-7. doi: 10.1007/978-3-540-45217-1_13. URL http://dx.doi.org/10.1007/978-3-540-45217-1_13

[w1] Nicola Capuano, Matteo Gaeta, Fabio Gasparetti, and Alessandro Micarelli. Holmes: A prototype for the targeted search of information about hi-tech companies. In *Second International Workshop on Intelligent Systems Design and Application*, pages 233–238, Atlanta, GA, USA, 2002. Dynamic Publishers, Inc. ISBN 0-9640398-0-X. URL http://dl.acm.org/citation.cfm?id=774964.775002

International Workshops - Invited talks

[i4] Fabio Gasparetti. Profiling users by activity tracker data collected by consumer wearable devices. Workshop on temporal aspects in user modeling. Haifa, Israel 18-21 July, 2022. URL https://taspects.hevra.haifa.ac.il/home. Partecipation by invitation

[i3] Fabio Gasparetti. Recent advancements in ML for improving information acquisition for awareness in Cybersecurity context. Workshop on Smart Learning for Cybersecurity Securing Industrial Control Systems, funded by Cassini Program 2019. Rome, Italy, 22 November, 2019. Invited Talk

[i2] Fabio Gasparetti. Improving News Recommendation by Monitoring the Perception of News Content on Social Networks: A Methodology. Workshop of the Israel Science Foundation on: User Modeling and Recommender Systems, organized by Tsvi Kuflik. Haifa, Israel, 17-19 July, 2017. Invited Talk

[i1] Fabio Gasparetti. Exploring folksonomies for adaptive query expansion. SASWeb 2012: Semantic and Adaptive Social Web workshop, organized by Lora Aroyo, Federica Cena, Antonina Dattolo, Pasquale Lops, Julita Vassileva. In conjunction with the 20th Conference on User Modeling, Adaptation, and Personalization. Montreal, Canada, 16-20 July, 2012. URL https://ceur-ws.org/Vol-872/sasweb2012_invitedtalk_3.pdf. Invited Talk

Contributions to Encyclopedias

[e1] Fabio Gasparetti, Alessandro Micarelli, and Giuseppe Sansonetti. Community detection and recommender systems. In Reda Alhajj and Jon Rokne, editors, *Encyclopedia of Social Network Analysis and Mining*, pages 1–14. Springer New York, New York, NY, 2017. ISBN 978-

1-4614-7163-9. doi: 10.1007/978-1-4614-7163-9_110160-1. URL https://doi.org/10.1007/978-1-4614-7163-9_110160-1

Guest editor di Special Issues

[si2] Fabio Gasparetti, Damianos Gavalas, Sergio Ilarri, Francesco Ricci, and Zhiwen Yu (eds). *Special issue on Mining Social Networks for Local Search and Location-based Recommender Systems - Journal of Personal and Ubiquitous Computing*, volume -. Springer, - 2018. (lead guest editor: Fabio Gasparetti)

[si1] Federica Cena, Fabio Gasparetti, Damianos Gavalas, Shuk Y. Ho, Bin Liu, and Dingqi Yang. Advances in personalized mobile services. *Mobile Information Systems*, 2018:1–2, jun 2018. doi: 10.1155/2018/6047696. URL https://doi.org/10.1155/2018/6047696. (lead guest editor: Fabio Gasparetti; Special Issue by invitation)

Patents

[b1] Patent US8606781 B2 (Type: Granted) "Systems and methods for personalized search". ' Filing year 2005 – Grant year 2013 – Expiry year 2029. The ownership extends to the following patent family: EP-1717720-A1 "Discovery of Related Documents Based on a Proximal Neighborhood Measure", JP-2007149057-A "Systems and Methods for Personalized Search"

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