

PERSONAL INFORMATION

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EDUCATION

2005 Research doctorate (equivalent to Ph.D.)
Department of Computer Science and Automation,
Faculty of Engineering - Roma Tre University, Italy
Supervised by Prof. Alessandro Micarelli
Granted on 21 June 2005
2001 Laurea Degree (equivalent to Post-secondary academic degree)
Faculty of Engineering - Roma Tre University, Italy
Granted on 28 September 2001

CURRENT POSITION

2019– “Ricercatore a Tempo Determinato” RTDb - senior (Research fellow on tenure track)
Department of Engineering, Roma Tre University
From 1 February 2019

ACADEMIC QUALIFICATIONS

2018–2024 Italian “Abilitazione Scientifica Nazionale” (National Academic Qualification) as
Associate Professor in “Sistemi di Elaborazione delle Informazioni” (Information
Processing Systems) - 09/H1
From 30 March 2018

PREVIOUS POSITIONS

2011–2016 “Ricercatore a Tempo Determinato” L.230/2005 (Research fellow)
Department of Engineering, Roma Tre University
1 February 2011 to 31 January 2016
2010–2011 “Assegnista di Ricerca” (Italian Postdoctoral fellowship)
Faculty of Engineering - Roma Tre University
1 June 2010 to 31 January 2011
2008–2010 “Assegnista di Ricerca” (Italian Postdoctoral fellowship)
Faculty of Engineering - Roma Tre University
1 February 2008 31 January 2010
2006–2008 “Assegnista di Ricerca” (Italian Postdoctoral fellowship)
Faculty of Engineering - Roma Tre University
1 February 2006 to 31 January 2008

SUPERVISION OF GRADUATE STUDENTS

2013–2016 Doctoral Co-Advisor, Davide Feltoni Gurini
Department of Engineering - Roma Tre University

TEACHING ACTIVITIES

- 2018– Teacher, “Elementi di Informatica e Algebra Lineare” (course Introduction to Computer Science and Programming and Linear Algebra) - Roma Tre University
- 2017– Teaching Assistant, “Machine Learning ” course - Roma Tre University
- 2010–2011 Teacher, “Fondamenti di Informatica” (Introduction to Computer Science and Programming) course - Roma Tre University
- 2009–2010 Teaching Assistant, “Fondamenti di Informatica” (Introduction to Computer Science and Programming) course - Roma Tre University
- 2007– Teaching Assistant, “Sistemi Intelligenti per Internet” (Intelligent Systems on Internet) course - Roma Tre University
- 2006–2007 Teacher, “Chief Knowledge Officer - CKO” post-graduate degree (Italian Master), Italdata, Italy
- 2002–2003 Teaching Assistant, “Calcolatori Elettronici I e II” (Computer Architecture) course, Roma Tre University
- 2001– Thesis co-advisor of near-graduate students, Faculty of Engineering - Roma Tre University

ORGANIZATION OF SCIENTIFIC MEETINGS

- 2021 Co-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 Conference Organizing Committee Member of the 21st Conference on User Modeling, Adaptation and Personalization (UMAP), Rome, Italy. June 10-14, 2013.

TECHNICAL PROGRAM COMMITTEE MEMBERSHIPS

Selected program committee memberships of conferences and workshops.

- 2021 AIXIA2021: 20th International Conference of the Italian Association for Artificial Intelligence, Milano, Italy, December 1-3, 2021.
- 2021 ACM CIKM 2021, the Conference on Information and Knowledge Management, November 1-5, 2021.
- 2021 11th Italian Information Retrieval Workshop. Bari, Italy, September 13-15, 2021.
- 2021 1st Workshop on Recommendation in Complex Environments Co-located with RecSys 2021. Amsterdam, the Netherlands, September 27-October 1, 2021.
- 2021 29th Conference on User Modeling, Adaptation and Personalization - ACM UMAP 2021. Utrecht, the Netherlands, June 21-25, 2021.
- 2020 19th International Conference of the Italian Association for Artificial Intelligence - AIXIA 2020 - November 25-27, 2020.
- 2020 28th Conference on User Modeling, Adaptation and Personalization - ACM UMAP 2020. Genoa, Italy, July 14-17, 2020.
- 2019 10th Italian Information Retrieval Workshop - IIR 2019. Padua, Italy, September 16-18, 2019.
- 2019 Workshop on Explainable and Holistic User Modeling - ExHUM, co-located at 27th ACM Conference On User Modeling, Adaptation And Personalization - UMAP. Larnaca, Cyprus, June 9-12, 2019.
- 2019 27th ACM Conference On User Modeling, Adaptation And Personalization - ACM UMAP. Cyprus, July 9-12, 2019. (TPC member and Mentor in the PhD Student Consortium)
- 2018 23rd ACM International Conference on Intelligent User Interfaces - ACM IUI (PC member of Poster and Demo track and Mentor in the PhD Student Consortium). Tokyo, Japan, March 7-11, 2018.
- 2018 26th Conference on User Modeling, Adaptation and Personalization - ACM UMAP (PC member of “Personalized Recommender Systems”). Singapore, July 8-11, 2018.

- 2018 9th Italian Information Retrieval Workshop - IIR 2018. Rome, Italy, May 28-30, 2018.
- 2018 1st Symposium on Learning Analytics, in the framework of the conference Information Visualization - IV. Salerno, Italy, July 10-13, 2018.
- 2017 25th Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Bratislava, Slovakia. July 9-12, 2017
- 2017 22nd International Conference on Intelligent User Interfaces 2017, poster and demo sessions - ACM IUI. Limassol, Cyprus. 13-16 March, 2017
- 2017 3rd International Conference on Signal and Image Processing - SIPRO. Dubai, UAE. January 28-29, 2017
- 2016 24th Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Halifax, Canada. July 13-17, 2016
- 2015 23rd Conference on User Modeling, Adaptation and Personalization - UMAP. Dublin, Ireland. June 29-July 3, 2015
- 2015 16th International Conference on Electronic Commerce and Web Technologies - EC-Web. Valencia, Spain. September 1-2, 2015
- 2013 14th International Conference on Electronic Commerce and Web Technologies - EC-Web. Prague, Czech Republic. August 26-30, 2013
- 2012 23rd ACM conference on Hypertext and social media - ACM HT, Milwaukee, Wisconsin, U.S.A. June 25-28, 2012
- 2012 13th International Conference on Electronic Commerce and Web Technologies - EC-Web Vienna, Austria. September 3-7, 2012
- 2009-2017 International Conference on Autonomic and Autonomous Systems - ICAS

ATTENDANCE AT CONFERENCES

Most recent and relevant conferences where I presented or participated in a panel.

- 2019 24th International Conference on Intelligent User Interfaces IUI '19, Los Angeles, CA, USA, March 16-20, 2019. (Presenter and PhD Student Mentor).
- 2018 Intelligent Tutoring Systems - 13th International Conference, ITS 2016, Zagreb, Croatia, June 7-10, 2016.
- 2017 25th Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Bratislava, Slovakia. July 9-12, 2017.
- 2015 9th ACM Conference on Recommender Systems, RecSys 2015, Vienna, Austria, September 16, 2015.
- 2014 User Modeling, Adaptation, and Personalization - 22nd International Conference, UMAP 2014, Aalborg, Denmark, July 7-11, 2014.
- 2013 22nd International World Wide Web Conference, WWW '13, Rio de Janeiro, Brazil, May 13-17, 2013.

DOCTORAL CONSORTIUM COMMITTEE MEMBERSHIPS

My past and current memberships of doctoral consortiums listed in inverted chronological order.

- 2018 26th Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Singapore. July 8-11, 2018.
- 2017 25th Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Bratislava, Slovakia. July 9-12, 2017.
- 2016 24th Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Halifax, Canada. July 13-17, 2016.
- 2014 22nd Conference on User Modeling, Adaptation and Personalization - UMAP. Aalborg, Denmark. July 7-11, 2014.
- 2013 21st Conference on User Modeling, Adaptation and Personalization - UMAP. Rome, Italy. June 10-14, 2013.

EXTERNAL REFEREE FOR CONFERENCES AND WORKSHOPS

I have been invited as external referee for the following international conferences and workshops.

- 2017 20th International Workshop on the Web and Databases - WebDB, Chicago, IL, USA. May 14, 2017
- 2010 18th International Conference on User Modeling, Adaptation, and Personalization UMAP, Big Island, Hawaii, USA. June 20-24, 2010
- 2009 17th International Conference on User Modeling, Adaptation, and Personalization UMAP, Trento, Italy. June 22-26, 2009

EDITORIAL BOARD MEMBERSHIPS

I am editorial board member or Associate editor of the following International journals.

- 2017-2019 IEEE Access - Associate Editor (ISSN 2169-3536)
- 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)
- 2017 Journal of Mobile Information Systems - Lead Guest Editor of *Special issue on Advances in Personalized Mobile Services* ([si1]) (ISSN 1574-017X)
- 2016-2018 Journal of Computer Science - Member of the Editorial Board (ISSN 1549-3636)

INVITED REFEREE FOR JOURNAL REVIEWING

I have been invited and fulfilled the external referee's activities for the following International journals.

- 2020 Applied Sciences, AE:Cristiano Matricardi, (ISSN 2076-3417)
- 2019 Computing, GE: Tania Cerquitelli, Silvia Chiusano, Genoveva Vargas-Solar (ISSN 0010-485X)
- 2018 User Modeling and User-Adapted Interaction, GE:Frank Hopfgartner, Judy Kay, Amon Rapp (ISSN 0924-1868)
- 2018 Expert Systems with Applications, EiC:Binshan Lin (ISSN 0957-4174)
- 2018 IEEE Transactions on Multimedia, AE:Benoit Huet (ISSN 1520-9210)
- 2018 User Modeling and User-Adapted Interaction, GE:Pasquale Lops, Dietmar Jannach, Cataldo Musto, Toine Bogers, Marijn Koolen (ISSN 0924-1868)
- 2017 International Journal of Human-Computer Studies, GE:Cristina Gena (ISSN 1071-5819)
- 2017 IEEE Access, AE:Bora Onat (ISSN 2169-3536)
- 2017 IEEE Transactions on Multimedia, AE:Benoit Huet (ISSN 1520-9210)
- 2016 IEEE Transactions on Multimedia, AE:Sen-Ching Samson Cheung (ISSN 1520-9210)
- 2016 Information Processing and Management AE:Ian Ruthven (ISSN 0306-4573)
- 2015 User Modeling and User-Adapted Interaction, EiC:Alfred Kobsa (ISSN 0924-1868)
- 2014 International Journal Distance Education Technologies, AE:Marco Temperini (1539-3100)
- 2014 Information Processing Letters, E:W.L. Hsu (ISSN 0020-0190)
- 2010 User Modeling and User-Adapted Interaction – Special Issue Data Mining for Personalized Educational Systems, GE:Cristobal Romero and Sebastian Ventura (ISSN 0924-1868)
- 2009 Connection Science, AE:Amanda Sharkey (ISSN 0954-0091)

INVITED REFEREE FOR PhD AND MASTER THESES, AND FUNDING PROPOSALS

- 2020-2021 Peer reviewer in the Italo Francese/Université Franco Italienne (UIF/UFI) “Vinci” funding program. May 2020.
- 2019 Master Thesis External Examiner for the Faculty of Social Sciences, University of Haifa.
- 2019 Doctoral Thesis External Examiner for the Doctorate in “Informatica”, University of Udine
- 2018 Peer reviewer in the “TOP Grant” funding program of the Netherlands Organisation for Scientific Research (NWO). Invitation to join accepted on 31 July 2018.

INSTITUTIONAL RESPONSIBILITIES AND MEMBERSHIPS

- 2021-2022 Member of the Academic Board of the Research Doctorate in Engineering, Section of “Informatica e Automazione” (Computer science and Automation), 37th cycle - Roma Tre University.
- 2018-2019 Member of the State Exam Commission responsible for the admission of graduated students to practice Engineering - Roma Tre University
- 2018- Member of SIGCHI Italy, the Italian ACM SIGCHI Chapter. <http://sigchitaly.eu/>
- 2017- Member of the Italian IA-Gov laboratory. The A.I. initiative, formerly named Task Force, is promoted by AgID (Agency for Digital Italy - Presidency of the Council of Ministers). Application to join accepted on 26 July 2017. <https://ia.italia.it/en/task-force/>
- 2012–2013 Member of the State Exam Commission responsible for the admission of graduated students to practice Engineering - Roma Tre University
- 2006– Stable member of Laurea degree boards at Faculty of Engineering - Roma Tre University

MAJOR INTERNATIONAL SCIENTIFIC COLLABORATIONS

- 2017 Visiting Scientist at Nokia Bell Labs (formerly, Bell Labs), Cambridge, U.K.
Research project: Health Recommender systems.
Host: Luca Maria Aiello, Daniele Quercia
26 July 2017 to 26 October 2017.
- 2004 Visiting Researcher at the Information Science and Technologies Laboratory, Palo Alto Research Center PARC (formerly Xerox PARC), Palo Alto, CA, U.S.A
Research project: Goal inference with web data.
Host: Ed H. Chi, Peter Pirolli
3 September 2004 to 17 December 2004.

PATENTS

- 2013 “Systems and methods for personalized search” US8606781 B2
Inventors: Ed Chi, Fabio Gasparetti
Filed on 9 August 2005, Granted on 10 December 2013.

MAJOR PARTICIPATIONS TO FUNDED RESEARCH PROJECTS

- 2010 “KEEN - Knowledge - based Extended ENterprise”
Funding source: Italian MIUR FAR Sostegno alla ricerca industriale 2006
- 2008 “NewGenLearn - Servizi ed Applicazioni Avanzate per l’e-learning di Nuova Generazione”
Funding source: Italian POR Campania 2000-2006.
- 2002-2003 “DIOGENE - A Training Web Broker for ICT Professionals”
Funding source: FP5-IST (contract IST-2001-33358). Project Grant: 2,634K Euro
- 2001-2002 “M-LEARNING - Mobile Communications Technologies for Young Adults Learning and Skills Development”
Funding source: FP5-IST (contract IST-2000-25270). Project grant: 4,556K Euro

SELECTED PUBLICATIONS

All articles listed below are selected for publication by a peer review process. All the conference and workshop publications have been presented orally, by me or by my co-authors.

International Journals

- [j15] Fabio Gasparetti. Discovering prerequisite relations from educational documents through word embeddings. *Future Generation Computer Systems*, Sep 2021. ISSN 0167-739X. 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. *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, Jun 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*, Jul 2019. ISSN 1573-1391. doi: 10.1007/s11257-019-09242-7. URL <https://doi.org/10.1007/s11257-019-09242-7>
- [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*, Mar 2019. ISSN 1573-1391. 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, 2017. ISSN 0736-5853. doi: <https://doi.org/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 1573-756X. 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. 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. 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. *Knowl.-Based Syst.*, 22(4):287–291, 2009. 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

- [b8] 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, Cham, 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
- [b7] 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>
- [b6] 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
- [b5] 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
- [b4] 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
- [b3] 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
- [b2] 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
- [b1] 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 Conferences

- [c32] 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
- [c31] 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, New York, NY, USA, 2019. ACM. ISBN 978-1-4503-6673-1. doi: 10.1145/3308557.3308716. URL <http://doi.acm.org/10.1145/3308557.3308716>
- [c30] 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>
- [c29] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, and Filippo Sciarrone. Modeling teachers and learning materials: a comparison among similarity metrics. In *22nd International Conference on Information Visualisation iV2018*, July 2018
- [c28] 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>
- [c27] 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>
- [c26] 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
- [c25] 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, New York, NY, USA, 2017. ACM. ISBN 978-1-4503-4993-2. doi: 10.1145/3110025.3110149. URL <http://dx.doi.org/10.1145/3110025.3110149>
- [c24] 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
- [c23] 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
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Invited Talks

- [i4] 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
- [i3] Fabio Gasparetti. Round table conference on “La distribuzione tra intelligenza artificiale e abitudini di consumo” (The retail between Artificial Intelligence and consumer habits) organized by Confcommercio. Rome, Italy. 12 April, 2018. Partecipazione by invitation
- [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. 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 of 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)

Principal achievements of the track record are summarized as follows:

- Over 2000 citations, H-index 21 (source: Google scholar)
- Track record with significant achievements in multiple domains, e.g., Intelligent Tutoring Systems, Recommender Systems, User modeling and user-adapted interaction.
- In [j4] my colleagues and I propose the first prototype of assistive writing technology based on the constructivism theory and self-directed learning paradigms.
- In [j5] my colleagues and I propose the first approach in the literature that combines user profiling, context-awareness and social signals in a recommender system of points of interest.
- I am one the authors of the book “The Adaptive Web Methods and Strategies of Web Personalization” (ISBN 3540720782), a comprehensive collection of chapters that map out the most important areas of the adaptive Web.
- The survey [b4] received over 280 citations and is considered one of the first contributions that covers the personalization of Information Retrieval search tools on the Web.
- The survey [b5] is the first attempt to systematically illustrate the benefits of the adaptivity to environment and user needs alterations in focused crawling.
- In 2013 I started co-supervising Davide Feltoni Gurini in his PhD. Social network analysis, which began one of principal research interests. The principal outcomes of this research are: (1) Community detection algorithms based on Sentiment and Opinion analysis, (2) Recommender systems based on Signal-based representations of the user interests. They were recognized by the research community as very original approaches to the respective problems.
- My current research activity deals with: (1) Adaptive focused crawler for social networks, able to access and autonomously retrieve relevant information by means of the traditional Streaming API provided by Twitter, (2) Temporal analysis of signals obtained by wearable devices for the recommendation task (3) Temporal analysis of signals extracted from user activities on social network services.