

**PERSONAL INFORMATION**

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Department of Engineering  
Roma Tre University  
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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**

2016– “Assegnista di Ricerca” (Italian Postdoctoral fellowship)  
Department of Engineering - Roma Tre University  
From 1 June 2016

**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**

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

**TEACHING ACTIVITIES**

- 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**

- 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**

List of program committee memberships of conferences and workshops listed in inverted chronological order.

- 2018 2nd Workshop on Recommendation in Complex Scenarios - ComplexRec, held in conjunct with ACM RecSys 2018 Conference. Vancouver, Canada, October 2-7, 2018.
- 2018 Knowledge-aware Recommender Systems Workshop - KaRS, held in conjunct with ACM RecSys 2018 Conference. Vancouver, Canada, October 2-7, 2018.
- 2018 Holistic User Modeling '18 (HUM) Workshop - HUM. Singapore, July 8-11, 2018.
- 2018 9th Italian Information Retrieval Workshop - IIR 2018. Rome, Italy, May 28-30, 2018.
- 2018 23rd ACM International Conference on Intelligent User Interfaces - ACM IUI (PC member of Poster and Demo track). 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 1st Symposium on Learning Analytics, in the framework of the conference Information Visualization - IV. Salerno, Italy, July 10-13, 2018.
- 2017 2nd Workshop on Semantics-Enabled Recommender Systems, New Orleans, USA. November 18 - 21, 2017
- 2017 10th International Conference on Advances in Human-oriented and Personalized Mechanisms, Technologies, and Services - CENTRIC. Athens, Greece. October 8 - 12, 2017
- 2017 1st Holistic User Modeling Workshop - HUM. Bratislava, Slovakia. July 9-12, 2017
- 2017 25th Conference on User Modeling, Adaptation and Personalization - ACM UMAP. Bratislava, Slovakia. July 9-12, 2017
- 2017 5th International Conference on Computer Science Applied Mathematics and Applications - ICCSAMA. Berlin, Germany. 30 June - 1 July, 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
- 2017 International Workshop on Adaptation and Personalization in Information Systems - APIS. Porto, Portugal. April 26-29, 2017
- 2016 International Conference on Intelligent Cloud Computing - ICC. Wuhan, China. December 17-18, 2016
- 2016 Workshop on Semantics-Enabled Recommender Systems - SERecSys. Barcelona, Spain. December 12, 2016
- 2016 3rd Workshop on New Trends in Content-based Recommender Systems - CBRecSys. Boston, MA, USA. September 16, 2016
- 2016 1st Workshop on Big, Linked and Social Data for Personalized and Intelligent Systems - BLINKS. Halifax, Canada. July 13, 2016
- 2016 9th International Conference on Advances in Human-oriented and Personalized Mechanisms, Technologies, and Services - CENTRIC. Brussels, Belgium. August, 21-25, 2016
- 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
- 2015 1st International Workshop on Deep Content Analytics Techniques for Personalized and Intelligent Services - DeCAT. Dublin, Ireland. 30 June, 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
- 2008 4th International Conference on Autonomic and Autonomous Systems - Track Knowledge-based User Interface KUI. Gosier, Guadeloupe. March 16-21, 2008

**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-            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-            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.

- 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)

### INSTITUTIONAL RESPONSIBILITIES

- 2017- Member of the A.I. Task Force 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/>
- 2012–2013 Member of the State Exam Commission responsible for the admission of graduated students to practice Engineering - Roma Tre University
- 2006– Member of Laurea degree boards at Faculty of Engineering - Roma Tre University

### MAJOR INTERNATIONAL 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 2005, Granted on 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 le-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**

- [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](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](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](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](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](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](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

- [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](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](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](http://dx.doi.org/10.1007/978-3-319-39583-8_44)
- [c22] 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](http://dx.doi.org/10.1007/978-3-319-40542-1_58)
- [c21] 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](http://dx.doi.org/10.1007/978-3-319-40542-1_35)
- [c20] 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](http://dx.doi.org/10.1007/978-3-319-47440-3_29)
- [c19] Fabio Gasparetti, Carla Limongelli, Alessandra Milita, Filippo Sciarrone, and Andrea Tarantini. Sequencing wikipedia pages: An on-the-fly approach to course building. In James Ono-huome 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>

- [c18] Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Filippo Sciarrone, and Marco Temperini. A machine learning approach to identify dependencies among learning objects. In James Ono-huome 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>
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## International Workshops

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- [w9] 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](http://ceur-ws.org/Vol-1441/recsys2015_poster3.pdf)
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- [w7] 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>
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- [w5] 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, CAMRa '11*, pages 5–10, New York, NY, USA, 2011. ACM. ISBN 978-1-4503-0825-0. doi: 10.1145/2096112.2096114. URL <http://dx.doi.org/10.1145/2096112.2096114>
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- [w3] 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, 2008

- [w2] 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*, 2008
- [w1] Fabio Gasparetti, Universit Degli Studi, and Alessandro Micarelli. User profile generation based on a memory retrieval theory. In *in Proceedings of the 1st International Workshop on Web Personalization, Recommender Systems and Intelligent User Interfaces, WPRSIUI 2005*, pages 3–7, 2005

### Invited Talks

- [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. Partecipation 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](https://doi.org/10.1007/978-1-4614-7163-9_110160-1)

### Guest editor of Special Issues

- [si2] Fabio Gasparetti, Damianos Gavalasa, 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 Ying Ho, Bin Liu, and Dingqi Yang (eds). *Special issue on Advances in Personalized Mobile Services - Journal of Mobile Information Systems*, volume -. Hindawi, - 2018. URL <https://www.hindawi.com/journals/misy/si/703961/cfp/>. (lead guest editor: Fabio Gasparetti; Special Issue by invitation)

The principal achievements of the track record are summarized as follows:

- Over 930 citations, H-index 14 (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 260 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.
- I am one of the contributors to the 2nd edition of Encyclopedia of Social Network Analysis and Mining (ESNAM) with the entry [e1].
- Several conference contributions are in well-established international conferences, such as, Intelligent Tutoring Systems (ITS), Intelligent User Interfaces (IUI), User Modeling, Adaption and Personalization (UMAP) and World Wide Web (WWW).
- 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 deal 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.