CURRICULUM VITAE ET STUDIORUM

1. PERSONAL INFORMATION

Name: Fabio PERSIA

2. SPECIALIZATIONS

2.1 Main Area

- 09/Ingegneria Industriale e dell'Informazione – SSD ING-INF/05 – Sistemi di Elaborazione delle Informazioni
- 01/Scienze Matematiche ed Informatiche – SSD INF/01 – Informatica

2.2 Keywords

- database, complex event processing, analysis in large scale databases, video surveillance applications, social network analysis, multi-agent systems

3. PROFESSIONAL ACTIVITIES

3.1 Present position

- Associate Professor, Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila, Italy – since 2023/Nov

3.2 Professional Employments

- 2020/Nov -> 2023/Nov – Tenure-Track Assistant Professor (RTD/B), Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila, Italy
- 2015/May -> 2020/Oct - Assistant Professor (RTD/A), Faculty of Computer Science, Free University of Bozen-Bolzano - Italy
- 2013/Jul → 2015/Apr – Postdoctoral Research Fellow, Department of Electrical Engineering and Information Technology, University of Naples "Federico II" – Italy
- 2010/Mar → 2013/Apr – PhD Fellowship at the Department of Electrical Engineering and Information Technology of the University of Naples "Federico II" – Italy
- 2009/May → 2009/Dec – Pre-doctoral Internship (Co.Co.Co.), Department of Electrical Engineering and Information Technology, University of Naples "Federico II" – Italy

3.3 Visiting Experience

- 2019/Oct → 2020/Jan – Visiting Research Fellow (under the supervision of Prof. Michael Bohlen), Department of Informatics, University of Zurich, Zurich, Switzerland
- 2019/Jul → 2019/Sep – Visiting Research Fellow (under the supervision of Prof. Mouzhi Ge), Faculty of Informatics, Masaryk University, Brno, Czech Republic
- 2010/Nov → 2011/Apr – PhD Visiting Scholar (under the supervision of Prof. V.S. Subrahmanian), University of Maryland Institute for Advanced Computer Studies (UMIACS), University of Maryland, College Park, MD, USA

4. EDUCATION

4.1 Academic degrees including year of graduation (M.Sc., Ph.D., etc.)

- 2013/Apr – University of Naples "Federico II", PhD in Computer Science and Engineering
- 2009/Mar - University of Naples "Federico II", Master Degree in Computer Engineering
- 2006/Feb - University of Naples "Federico II", Bachelor Degree in Computer Engineering

4.2 Habilitations

- 2020/Nov -> Italian National Scientific Habilitation (ASN) as Associate Professor in the scientific-disciplinary sector INF/01
- 2020/Nov -> Italian National Scientific Habilitation (ASN) as Associate Professor in the scientific-disciplinary sector ING-INF/05
- 2015/Apr → today – Member of Ordine degli Ingegneri della Provincia di Napoli
- 2009/Nov – Ordine degli Ingegneri – Chartered Engineer

5. LANGUAGES

5.1 Italian – Mother tongue

5.2 English – C1, Cambridge Certificate in Advanced English (CAE) got in June 2016

5.3 French – Discrete speaking and reading abilities (A2)

5.4 German - Discrete speaking and reading abilities (A2)

6. SCIENTIFIC ACHIEVEMENTS

6.1 Summary of Publications

- International Academic Referred Journals: 14
- Book Chapters: 2
- Peer Reviewed International Conferences and Workshops with Formal Proceedings: 70

6.2 Summary of citation data

- Scopus Citation Report (AuthorSearch)
  - Total Citations: 788 – H-index: 17
- Google Scholar Report (MyCitations)
  - Total Citations: 1086 – H-index: 19

7. SCIENTIFIC ACTIVITIES

7.1 Achievement of national and international prizes and awards for research activities

- IEEE Best Leadership Award, 2022, (https://semanticcomputing.wixsite.com/irc2022/2022awards). Presented At IEEE ISM/IRC/BigMM 2022 (Naples 2022), December 5-7, Naples, Italy. Winner of the IEEE Best Leadership Award, as a result of continued fruitful collaboration with Prof. Phillip Sheu of the University of California, Irvine, USA, in organizing numerous prestigious IEEE conferences, such as the International Conference on Semantic Computing (IEEE ICSC), and the International Symposium on Multimedia (IEEE ISM).

7.2 The organization, direction and coordination of, or participation in, national and international research projects or groups

- Technical Commitee on SEMantic computing (*TCSEM*) Officer, with responsibilities on Conference Activities (https://tc.computer.org/tcsem/officers/). The TCSEM is an international research group, directed by Prof. Phillip Sheu, from the University of California, Irvine, USA.
- Collaboration with *Prof. V.S. Subrahmanian*, as evidenced by my role as a PhD Visiting Scholar under his supervision, which occurred at the University of Maryland Institute for Advanced Computer Studies (UMIACS), University of Maryland, College Park, MD, USA, from November 2010 to April 2011.
- Collaboration with the *Department of Informatics* at the *University of Zurich*, evidenced by my three-month research visit to that department from 7/10/2019 to 7/01/2020, as well as the "Tourist SENSOR" project proposal (of which I am the PI) funded by the Autonomous Province of Bolzano.
- Multi-year collaboration with Prof. Mouzhi Ge, now at the *Deggendorf Institute of Technology in Germany*.
- Collaboration with Dr. Giovanni Pilato of the *Institute of High Performance Computing and Networks* of the National Research Council (ICAR/CNR) in Palermo, Italy.
- Collaboration with the Department of Statistics and Quantitative Methods of the *University of Milan-Bicocca.*
- Collaboration with the research group in databases of the Department of Electrical Engineering and Information Technology (DIETI) of the *University of Naples "Federico II"*.
- Collaboration with the Department of Industrial Engineering/DIIN at the *University of Salerno*.
- Collaboration with the DBS Research Group, Faculty of Computer Science, *Free University of Bozen-Bolzano*, Bozen-Bolzano, Italy.
- Collaboration with Prof. Claudio Ferri, Medicine Department, University of L'Aquila, L'Aquila, Italy.
- Collaboration with Prof. Carlo and Domenico Bertoncelli, University of West Florida, Florida, USA.
- Member of the "Gruppo Ricercatori ed Utenti di Logic Programming" (GULP), 2021.
- Member of the "Gruppo Ricercatori ed Utenti di Logic Programming" (GULP), 2022.

7.3 Directorships of national and international scientific programs and other national and international scientific awards

- A Smart Framework for Automatically Analyzing Electrocardiograms
  - Role: PI
  - Performance Period: 2021 → 2022
  - Funding: 3K€ from the University of L'Aquila

- PES 2020 – fast learning and Prediction of Event Sequences in a video surveillance system
  - Role: PI
  - Performance Period: 2020 → 2021
  - Funding: 5K€ from the Province of Bolzano

- Tourist SENSOR – Tourist trip planning using Social sENSing Orienteering
  - Role: PI
  - Duration: 2019 → 2020
  - Bolzano Funding 10K€ from the Province of Bolzano

- HAMSIK – High-level AutoMatic event detection in a SocIal networK context
  - Role: PI
  - Duration: 2018 → 2020
  - Bolzano Funding 5K€ from the Province of Bolzano

- SARRI – the SmArt Rapiro Robot Integrating a framework for the automatic high-level surveillance event detection
  - Role: PI
  - Duration: 2017 → 2018
  - Bolzano Funding 7K€ from the Province of Bolzano

- HLSED – High-Level Surveillance Event Detection
    - Role: PI
    - Duration: 2016 → 2017
    - Bolzano Funding 20K€ from the Province of Bolzano.

- H2I - Hyperspectral images for inspection applications
    - Role: Co-PI
    - Performance Period: 2019 → 2021
    - Funding: 2,000,000 € from the European Regional Development Fund Programme (EU/Province of Bolzano)

- IEEE Best Leadership Award, 2022, (https://semanticcomputing.wixsite.com/irc2022/2022awards).

7.4 Participation in program committees of international conferences and workshops, as well as the organization of such events

- Associate Editor of International Peer Reviewed Journal

    - International Journal of Humanized Computing and Communication (IJHCC) – KS PRESS, (Editor in Chief).

    - Editorial Board Member of the Encyclopedia with Semantic Computing and Robotic Computing (ESCRI) – World Scientific.

    - Associate Editor of the International Journal of Semantic Computing (IJSC) – World Scientific.

- Special Issue Editor
    - Frontiers in Big Data - Special Issue on Multimedia Big Data Analytics, 2023.
    - International Journal of Semantic Computing (IJSC) - World Scientific, Vol. 16, No. 2 (2022).
    - International Journal of Semantic Computing (IJSC) – World Scientific, Vol. 13, No. 4 (2019)
    - International Journal of Semantic Computing (IJSC) – World Scientific, Vol. 12, No. 3 (2018)
    - International Journal of Semantic Computing (IJSC) – World Scientific, Vol. 11, No. 3 (2017)

- Reviewers for Journals
    - Concurrency and Computation: Practice and Experience (CCPE), Symmetry, Information, Journal of Networking and Communication Systems (JNACS), Applied Sciences, International Journal of Multimedia Data Engineering and Management (IJMDEM), Journal of Information Science, International Journal of Humanized Computing and Communication, International Journal of Semantic Computing, Encyclopedia with Semantic Computing and Robotic Computing, Intelligent Systems with Applications – Elsevier, International Journal of Semantic Computing (IJSC) - World Scientific, The Knowledge Engineering Review - Cambridge Core, Multimedia Tools for Applications (MTAP).

- Reviewers for Conferences and Workshops
    - SEBD (2014), IEEE WETICE (2017→2019), IEEE ICSC (2017→now), IEEE IRC (2017→now), IEEE AI4I (2018→now), IEEE HCC (2019), IEEE GC (2019), IEEE ISM (2019), the 37th AAAI Conference on Artificial Intelligence (AAAI 2023), the IEEE International Conference on Multimedia Big Data (BigMM 2021->now), the IEEE Robotic Computing (IEEE IRC 2017 ->now), the IEEE International Conference on Semantic Computing (IEEE ICSC 2016 -> now), AVI 2022 (2022 International Conference on Advanced Visual Interfaces), the 4th and 5th IEEE International Conference on Artificial Intelligence & Knowledge Engineering (IEEE AIKE 2021, IEEE AIKE 2022), Critical Infrastructures (CI) ACM'23 Track @ The 38th ACM Symposium on Applied Computing (SAC 2023), the IEEE International Conference on Artificial Intelligence for Industries (AI4I 2018 -> now), the 26th European Conference on Artificial Intelligence ECAI 2023.

- o Workshops: CADSA (3PGCIC conference - 2014,2015), DEW (IEEE WETICE conference, 2017→2019), NFCR (IEEE IRC conference, 2017→now), SR (IEEE ICSC conference, 2017→now), SMC (IEEE ICSC conference, 2017→now)

- Conference chairmanships

  - o General Co-Chair of IEEE ISM 2023 – 25th IEEE International Symposium on Multimedia, December 11-13, 2023, Laguna Hills, USA.

  - o General Co-Chair of IEEE ISM 2022 – 24th IEEE International Symposium on Multimedia, December 5-7, 2022, Naples, Italy.

  - o General Co-Chair of IEEE ISM 2021 – 23rd IEEE International Symposium on Multimedia, November 29 - December 1, 2021, virtual.

  - o Program Chair of the following Conferences and Workshops
    - IEEE ISM 2019 - 21st IEEE International Symposium on Multimedia
    - IEEE TransAI 2023 – IEEE International Conference on Transdisciplinary AI, September 25-27, 2023, Laguna Hills, California, USA
    - IEEE TransAI 2022 – IEEE International Conference on Transdisciplinary AI, September 19-21, 2022, Laguna Hills, California, USA
    - Third International Conference on Transdisciplinary AI (TransAI 2021)
    - IEEE Multimedia Big Data (IEEE BigMM 2021)
    - IEEE NFCR 2021 - Fifth IEEE International Workshop on New Frontiers in Computational Robotics, in conjunction with IEEE IRC 2021
    - IEEE SMC 2021 - Fifth IEEE International Workshop on Semantic Multimedia Computing, in conjunction with IEEE ICSC 2021
    - Second International Conference on Transdisciplinary AI (TransAI 2020)
    - 2020 IEEE International Conference on Humanized Computing and Communication with Artificial Intelligence, HCCAI 2020
    - IEEE NFCR 2020 - Fourth IEEE International Workshop on New Frontiers in Computational Robotics, in conjunction with IEEE IRC 2020
    - IEEE SMC 2020 - Fourth IEEE International Workshop on Semantic Multimedia Computing, in conjunction with IEEE ICSC 2020
    - IEEE ICSC 2019 - 13th IEEE International Conference on Semantic Computing
    - IEEE HCC 2019 - First IEEE International Conference on Humanized Computing and Communication
    - IEEE GC 2019 - First IEEE International Conference on Graph Computing
    - IEEE NFCR 2019 - Third IEEE International Workshop on New Frontiers in Computational Robotics, in conjunction with IEEE IRC 2019
    - IEEE SMC 2019 - Third IEEE International Workshop on Semantic Multimedia Computing, in conjunction with IEEE ICSC 2019
    - IEEE ICSC 2018 - 12th IEEE International Conference on Semantic Computing
    - IEEE NFCR 2018 - Second IEEE International Workshop on New Frontiers in Computational Robotics, in conjunction with IEEE IRC 2018
    - IEEE SMC 2018 - Second IEEE International Workshop on Semantic Multimedia Computing, in conjunction with IEEE ICSC 2018
    - IEEE NFCR 2017 - First IEEE International Workshop on New Frontiers in Computational Robotics, in conjunction with IEEE IRC 2017
    - IEEE SMC 2017 - First IEEE International Workshop on Semantic Multimedia Computing, in conjunction with IEEE ICSC 2017
    - Co-Chair of the Fifth International Workshop on New Frontiers in Computational Robotics (NFCR '22), in conjunction with the The Sixth IEEE International Conference on Robotic Computing, December 7, 2022, Naples, Italy
  - o Organizing Committee member of the following Conferences
    - SEBD 2014 – Local Organizing Committee Member
    - IEEE IRC 2019 – Local Organizing Committee Member
    - IEEE ISM/IRC/BigMM 2022 - Local Organizing Committee Member

- IEEE IRC 2017 - Workshop Committee Co-Chair
- SR 2017 – Publicity Chair
- IEEE IRC 2018 - Panel Committee Chair
- SR 2018 – Publicity Chair
- IEEE IRC 2019 - Panel Committee Chair
- SR 2019 – Publicity Chair
- Workshop Co-Chair of IEEE ICSC 2022 – 16th IEEE International Conference on Semantic Computing, January 26-28, 2022, virtual
- Workshop Co-Chair of IEEE ICSC 2023 – 17th IEEE International Conference on Semantic Computing, February 1-3, 2023, Laguna Hills, California, USA

7.5 Invited talks and paper presentations

- Invited Talks
    - 2021 – Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila (virtual talk), "Event Detection with Temporal Predicates"
    - 2020 - Florida Agricultural and Mechanical University (FAMU), Tallahassee, Florida (virtual talk), USA, "Event Detection with Temporal Predicates"
    - 2020 – University of California, Irvine, USA, "Event Detection with Temporal Predicates"
    - 2019 – IEEE ISM 2019, "An Interactive Framework for Video Surveillance Event Detection"
    - 2019 – University of Salzburg, Austria, "An Interactive Framework for Video Surveillance Event Detection"
    - 2019 – IEEE IRC 2019/NFCR 2019, "An Interactive Framework for Video Surveillance Event Detection"
    - 2018 – Alperia Workshop @ ASITA 2018, "Un Sistema Interattivo per la Modellazione ed il Riconoscimento Automatico di Eventi Complessi nel Contesto della Videosorveglianza"
    - 2017 – Liceo "Cantore" Brunico, "Introduction to a Phd School about Semantics in Robotics"
    - 2013 – Eurecom, Nice, France, "Finding Unexplained Activities in Time-Stamped Observation Data"
    - 2013 – Free University of Bozen-Bolzano, "Finding Unexplained Activities in Time-Stamped Observation Data"
- Paper presentations (with reference to the paper list shown in section 10.3)
    - [C70], [C68], [C67], [C66], [C65], [C62], [C56], [C54], [C53], [C52], [C50], [C49], [C48], [C47], [C46], [C44], [C43], [C41], [C38], [C37], [C36], [C34], [C33], [C32], [C27], [C24], [C23], [C19], [C18], [C16], [C15], [C11], [C7]

8. TEACHING

8.1 Academic Teaching

- Main Lecturer

    Academic Year 2022/23
    - Databases, University of L'Aquila, Bachelor in Computer Science, 80 students
    - Computer Science for Companies, University of L'Aquila, Bachelor in Business Legal Operator, 10 students

    Academic Year 2021/22
    - Intelligent Knowledge Representation and Processing for Event Detection, University of L'Aquila, Master in Computer Science, 5 students
    - Computer Science for Companies, University of L'Aquila, Bachelor in Business Legal Operator, 10 students

    Academic Year 2020/21
    - Web Algorithms, University of L'Aquila, Master in Computer Science, 43 students

o Computer Science for Companies, University of L'Aquila, Bachelor in Business Legal Operator, 21 students

Academic Year 2019/20
o Operating Systems, Free University of Bozen-Bolzano, Bachelor in Computer Science, 51 students
o Operating Systems Lab, Free University of Bozen-Bolzano, Bachelor in Computer Science, 51 students
o Knowledge Representation and Processing for Event Detection, Free University of Bozen-Bolzano, PhD in Computer Science, 15 students.

Academic Year 2018/19
o Operating Systems, Free University of Bozen-Bolzano, Bachelor in Computer Science, 42 students
o Operating Systems Lab, Free University of Bozen-Bolzano, Bachelor in Computer Science, 21 students

Academic Year 2017/18

o Operating Systems, Free University of Bozen-Bolzano, Bachelor in Computer Science, 46 students
o Operating Systems Lab, Free University of Bozen-Bolzano, Bachelor in Computer Science, 23 students
o Operating Systems, Free University of Bozen-Bolzano, Bachelor in Computer Science and Engineering, 53 students
o Operating Systems Lab, Free University of Bozen-Bolzano, Bachelor in Computer Science and Engineering, 27 students

Academic Year 2016/17

o Operating Systems, Free University of Bozen-Bolzano, Bachelor in Computer Science and Engineering, 55 students
o Operating Systems Lab, Free University of Bozen-Bolzano, Bachelor in Computer Science and Engineering, 23 students

Academic Year 2015/16

o Operating Systems, Free University of Bozen-Bolzano, Bachelor in Computer Science and Engineering, 58 students
o Operating Systems Lab, Free University of Bozen-Bolzano, Bachelor in Computer Science and Engineering, 29 students

- Teaching Assistant

Academic Year 2022/23

o Information Systems and Data Management, Free University of Bozen-Bolzano, Bachelor in Economics, 40 students

Academic Year 2014/15
o Basic Informatics, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students
o Basic Informatics, University of Naples "Federico II", Bachelor in Biomedical Engineering, 200 students
o Databases I, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students
o Multimedia Systems, University of Naples "Federico II", Master in Computer Engineering, 100 students

Academic Year 2013/14
o Basic Informatics, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students
o Basic Informatics, University of Naples "Federico II", Bachelor in Biomedical Engineering, 200 students
o Databases I, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students

Academic Year 2012/13
o Basic Informatics, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students

- o Electronic Devices I, University of Naples "Federico II", Bachelor in Biomedical Engineering, 200 students
- o Databases I, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students
- o Databases II, University of Naples "Federico II", Master in Computer Engineering, 100 students

Academic Year 2011/12
- o Basic Informatics, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students
- o Databases I, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students

Academic Year 2010/11
- o Basic Informatics, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students
- o Databases I, University of Naples "Federico II", Bachelor in Computer Engineering, 150 students

Academic Year 2009/10
- o Informatics, University of Naples "Federico II", Bachelor in Pharmacy, 150 students

- Invited Lectures
  - o AI and Multimedia Applications, University of California, Irvine, Guest Lecture, November 2020.
  - o Invited (online) seminar at the University of Palermo, within the "Web Data Analytics" course, Master in Computer Engineering, "Event Detection with Temporal Predicates", 2 hours, May 26, 2022.

8.2 Professional Teaching

- 2019, Microtec Srl – Bressanone (BZ), Course on Advanced C++, 15 students
- 2016, Consvip S.C.AR.L., Napoli, Course on Excel, 10 students
- 2011 → 2014, Biogem – Ariano Irpino, University-Industry Internship training Program (UIIP), Courses on PHP, Databases I, Databases II, XML and Data Binding, Java, from 20 to 50 students
- 2014, SESM – Giugliano (NA), PON project "DISPLAY-FARM", Course on Database I, 20 students
- 2012, University of Naples "Federico II", PON project "IESWECAN", Courses on C and Java, 20 students
- 2012, Technical Institute "Renato Elia" – Castellammare di Stabia (NA), Course on C++, 10 students
- 2010, Alenia Aeronautica SpA – Pomigliano d'Arco (NA), Courses on Microsoft Office: Word, Excel, Access, PowerPoint, 10 students

8.3 Supervisions

Thesis

- Reviewer of the PhD Thesis of Antonio Galli, PhD in Technology, Innovation and Management (TIM) - XXXV cycle, University of Bergamo.
- Thesis co-(advising) Jessica Giancola, Bachelor degree in Computer Science, University of L'Aquila, "Il linguaggio DALI e Smart Health Helper", Feb-Jul 2021.
- PhD co-(advising) of the 3rd-year PhD student Lorenzo De Lauretis, Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila, starting from January 2021.
- 2020, thesis second reader of 1 student, PhD degree in Computer Science, Free University of Bozen-Bolzano (ING-INF/05)
- 2015 → 2019, 2 students, Bachelor degree in Computer Science, Free University of Bozen-Bolzano (ING-INF/05)
- 2009 → 2014, 21 students, Bachelor degree in Computer Engineering, University of Naples "Federico II" (ING-INF/05)
- 2009 → 2014, 10 students, Master degree in Computer Engineering, University of Naples "Federico II" (ING-INF/05)
- 2010, 1 student, Bachelor degree in Biomedical Engineering, University of Naples "Federico II" (ING-INF/05)

AR

- 2017, Fabio Bettini, working on the "the SmArt Rapiro Robot Integrating a framework for the automatic high-level surveillance event detection" (SARRI) project, Free University of Bozen-Bolzano
- 2017, Danila Piatov, working on the "High-Level Surveillance Event Detection" (HLSED) project, Free University of Bozen-Bolzano
- 2016, Fabio Bettini, working on the "High-Level Surveillance Event Detection" (HLSED) project, Free University of Bozen-Bolzano

Bachelor students

- Tutor of 10 bachelor students during the academic years 2017/18, 2018/19, 2019/20, 2020/21, Faculty of Computer Science, Free University of Bozen-Bolzano

9. ADDITIONAL MEMBERSHIPS

- **Membership**: Member of the committee for the Social Networks course, University of L'Aquila, Academic Years 2020/2021, 2021/2022, 2022/2023.

- **Membership**: Member of the committee for the Information Systems and Network Security course, University of L'Aquila, Academic Years 2020/2021, 2021/2022, 2022/2023.

- **Membership**: Consiglio di Area Didattica [CAD] for the Degree of Computer Science of University of L'Aquila 2021/2022.

- **Membership**: Consiglio di Area Didattica [CAD] for the Degree of Computer Science of University of L'Aquila 2021/2022.

- **Membership**: Consiglio di Area Didattica [CAD] for the Degree of Computer Science of University of L'Aquila 2020/2021.

- **Membership**: Graduation Committee member, Bachelor's degree in Computer Science, University of L'Aquila, July 2021.

- **Membership**: Substitute member of the committee for the National PhD in Artificial Intelligence & Society 2021/2022.

- **Membership**: Member of the committee for the "Marco Cadoli" award, Italian Association for Artificial Intelligence (AIxIA), 2021.

- **Membership**: Member of the "Gruppo Ricercatori ed Utenti di Logic Programming" (GULP), 2021.

- **Membership**: Member of the organizing committee for the Computer Science Career Day 2021, University of L'Aquila.

- **Membership**: Member of the committee for TOLC@CASA, University of L'Aquila, October 2021.

- **Membership**: Member of "Ordine degli Ingegneri della Provincia di Napoli".

- **Membership**: Consiglio di Area Didattica [CAD] for the Degree of Computer Science of University of L'Aquila 2022/2023.

- **Membership**: Consiglio di Area Didattica [CAD] for the Degree of Computer Science of University of L'Aquila 2021/2022.

- **Membership**: Graduation Committee substitute member, Bachelor's degree in Computer Science, University of L'Aquila, July 2022.

- **Membership**: Member of the "Gruppo Ricercatori ed Utenti di Logic Programming" (GULP), 2022.

- **Membership**: Member of the organizing committee for the Computer Science Career Day 2021, University of L'Aquila, November 2021.

- **Membership**: Member of the committee for TOLC@CASA, University of L'Aquila, September 2022.

- **Membership**: Member of the committee for a public selection procedure based on qualifications and interview for the award of no. 32 positions for the performance of teaching exercises and support activities for freshmen and activities of support to female and international students, University of L'Aquila, July 2022.

- **Membership**: Member of the committee for the competition for one scholarship for research activities having as subject "Sistemi di Monitoraggio Rete Ferroviaria Italiana: supervisione e validazione riguardanti gli algoritmi di supporto decisionale al monitoraggio", March 2022.

- **Membership**: Member of the committee for the competition for the AR positions mentioned in 8.3, Free University of Bozen-Bolzano.

- **Membership**: Member of the committee for the competition for one research assistant position working on the topic: "Agenti Intelligenti Logici: aspetti fondazionali e applicazioni in campo green", April 2022.

- **Membership**: Member of "Ordine degli Ingegneri della Provincia di Napoli", 2022.

- **Honors:** sponsorship from the Department of Information Engineering, Computer Science and Mathematics of the University of L'Aquila for the IEEE International Symposium on Multimedia (IEEE ISM 2022), that will take place in Naples from December 5 to December 7.

10. DETAILED PUBLICATION LIST

10.1 International Academic Referred Journals

Journal publications ranked Q1 according to **Scimago** are listed in bold.

2023

[J-14] G. Pilato, F. Persia, M. Ge, T. Chondrogiannis, and D. D'Auria. 2023. A Modular Social Sensing System for Personalized Orienteering in the COVID-19 Era. ACM Trans. Manage. Inf. Syst. 14, 4, Article 31 (December 2023), 26 pages. https://doi.org/10.1145/3615359

[J13] C. M. Bertoncelli, S. Costantini, *F. Persia*, D. Bertoncelli, D. D'Auria, PredictMed-epilepsy: A multi-agent based system for epilepsy detection and prediction in neuropediatrics, Computer Methods and Programs in Biomedicine, Volume 236, 2023, 107548, ISSN 0169-2607, https://doi.org/10.1016/j.cmpb.2023.107548 .

[J12] L. De Lauretis, F. Persia, S. Costantini, D. D'Auria, How to leverage Intelligent Agents and Complex Event Processing to improve Patient Monitoring, Journal of Logic and Computation, exad016, https://doi.org/10.1093/logcom/exad016 , 28 March 2023

2022

[J11] G. Pilato, *F. Persia*, M. Ge and D. D'Auria, "Social Sensing for Personalized Orienteering Mediating the Need for Sociality and the Risk of COVID-19," in *IEEE Transactions on Technology and Society*, vol. 3, no. 4, pp. 323-332, Dec. 2022, doi: 10.1109/TTS.2022.3210882.

2021

[J10] D. Piatov, S. Helmer, A. Dignös, F. Persia, Cache-Efficient Sweeping-Based Interval Joins for Extended Allen Relation Predicates, The VLDB Journal (2021), 30, 379–402, (2021).

2020

[J9] *F. Persia*, G. Pilato, M. Ge, P. Bolzoni, D. D'Auria, S. Helmer, Improving Orienteering-based Tourist Trip Planning with Social Sensing, "Data Exploration in the Web 3.0 Age" on the *Future Generation Computer Systems (FGCS)* Journal 110, 931-945 (2020).

2018

[J8] F. Amato, A. Castiglione, A. De Santo, V. Moscato, A. Picariello, *F. Persia*, G. Sperlì, Recognizing human behaviours in online social networks, *Computers & Security* 74, 355-370, (2018).

[J7] M. Ge, *F. Persia*, A generalized evaluation framework for multimedia recommender systems, *International Journal of Semantic Computing (IJSC)*, 12 (04), 541-557, (2018).

[J6] D. D'Auria, *F. Persia*, A Methodology for Improving Vegetation Representation and Health Exploiting a Semantic Robotic System and Its Dynamic Stability Control, *International Journal of Semantic Computing (IJSC)*, 12 (01), 25-41, (2018).

2017

[J5] M. Ge, *F. Persia*, A Survey of Multimedia Recommender Systems: Challenges and Opportunities. *Int. J. Semantic Computing (IJSC),* 11(3): 411-428, (2017).

2016

[J4] S. Helmer, *F. Persia*, ISEQL, an Interval-based Surveillance Event Query Language, *International Journal of Multimedia Data Engineering & Management (IJMDEM)*, vol. 7, p. 1-21, ISSN: 1947-8534, (2016).

2014

[J3] M. Albanese, C. Molinaro, *F. Persia*, A. Picariello, V. S. Subrahmanian, Discovering the Top-k Unexplained Sequences in Time-Stamped Observation Data, *IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE)*, 26(3): 577-594, (2014).

2013

[J2] M. Albanese, A. d'Acierno, V. Moscato, *F. Persia*, A. Picariello, A Multimedia Recommender System, *ACM Transactions on Internet Technology (ACM TOIT)*, 13(1): 3:1-3:32, (2013).

2011

[J1] M. Albanese, A. d'Acierno, V. Moscato, *F. Persia*, A. Picariello, A Novel Strategy for Recommending Multimedia Objects and its Application in the Cultural Heritage Domain, International Journal of Multimedia Data Engineering & Management (IJMDEM), vol. 2, issue 4 p. 1-18, (2011).

10.2 Book Chapters

[B2] F. Amato, L. Greco, *F. Persia*, S. R. Poccia, A. De Santo: *Content-Based Multimedia Retrieval, Data Management in Pervasive Systems*, 291-310, (2015).

[B1] M. Albanese, R. F. Erbacher, S. Jajodia, C. Molinaro, *F. Persia*, A. Picariello, G. Sperlì, V. S. Subrahmanian: Recognizing Unexplained Behavior in Network Traffic, *Network Science and Cybersecurity*, 39-62, (2014).

10.3 Peer Reviewed International Conferences and Workshops with Formal Proceedings

Conference publications ranked A or A* according to the **CORE Conference Portal** are listed in bold.

2023

[C70] *F. Persia* and D. D'Auria, "Complex Event Processing in Heterogeneous Domains", 25th IEEE International Symposium on. Multimedia December 11-13, 2023, Laguna Hills, California, USA; December 11-13, 2023.

[C69] S. Costantini, *F. Persia*, P. De Meo, S. Rossi, R. Falcone, C. M. Bertoncelli and D. Bertoncelli, The PredictMed-POMAS Architecture for Intelligent Patient Monitoring within a Complex Healthcare Ecosystem, HC@AIxIA 2023.

[C68] M. Ge, G. Pilato, *F. Persia* and D. D'Auria, "Recommender System for Social Media: Research Challenges and Future Applications", Fifth IEEE International Conference on Transdisciplinary AI (IEEE TransAI 2023), Laguna Hills, California, USA; September 25-27, 2023.

[C67] *F. Persia* and D. D'Auria, "Information Retrieval from Facebook for Social Network Analysis," 2023 IEEE 17th International Conference on Semantic Computing (ICSC), Laguna Hills, CA, USA, 2023, pp. 329-336, doi: 10.1109/ICSC56153.2023.00067.

2022

[C66] D. D'Auria and *F. Persia*, "Privacy Protection and Regulatory Aspects in the context of Medical Apps," 2022 Sixth IEEE International Conference on Robotic Computing (IRC), Italy, 2022, pp. 277-280, doi: 10.1109/IRC55401.2022.00053 .

[C65] L. De Lauretis, *F. Persia* and S. Costantini, "A Smart Ecosystem to improve Patient Monitoring using Wearables, Intelligent Agents, Complex Event Processing and Image Processing", 2022 IEEE Symposium on Computers and Communications (ISCC), 2022, pp. 1-7, doi: 10.1109/ISCC55528.2022.9912829.

[C64] L. De Lauretis, *F. Persia* and S. Costantini, "Intelligent Agents and Complex Event Processing to enhance Patient Monitoring", Datalog 2.0 2022: 4th International Workshop on the Resurgence of Datalog in Academia and Industry, September 05, 2022, Genova - Nervi, Italy.

[C63] S. Costantini, *F. Persia*, L. De Lauretis, "An Intelligent Ecosystem to improve Patient Monitoring using Wearables and Artificial Intelligence", CILC 2022: 37th Italian Conference on Computational Logic, June 29 – July 1, 2022, Bologna, Italy.

[C62] M. Ge, G. Pilato, *F. Persia* and D. D'Auria: "New Perspectives on Recommender Systems for Industries", Fifth IEEE International Conference on Artificial Intelligence for Industries (IEEE ai4i 2022), September 19-21, 2022, Laguna Hills, California, USA.

2021

[C61] V.E. Carusotto, G. Pilato, F. Persia, M. Ge, "User Profiling for Tourist Trip Recommendations using Social Sensing", 2021 IEEE International Symposium on Multimedia (ISM), (2021).

[C60] S. Costantini, L. De Lauretis, C. Ferri, J. Giancola, F. Persia, "A Smart Health Assistant via DALI Logical Agents", 36th Italian Conference on Computational Logic (CILC), (2021).

[C59] F. Persia, S. Costantini, C. Ferri, L. De Lauretis, D. D'Auria, "A Smart Framework for Automatically Analyzing Electrocardiograms", 2021 IEEE Third International Conference on Transdisciplinary AI (TransAI), 64-67, (2021).

[C58] D. D'Auria, F. Persia, "Robots against the Coronavirus: the need for a new generation of robots to help global society", 2021 IEEE 15th International Conference on Semantic Computing (IEEE ICSC 2021), virtual, (2021).

2020

[C57] C. Roggia, F. Persia, "Extraction of Frame Sequences in the Manga Context", 22nd IEEE International Symposium on Multimedia (IEEE ISM 2020), virtual, (2020).

[C56] F. Persia, D. D'Auria and G. Pilato, "Fast Learning and Prediction of Event Sequences in a Robotic System", *2020 Fourth IEEE International Conference on Robotic Computing (IEEE IRC 2020)*, virtual, (2020).

[C55] J. R. Barr, D. D'Auria and F. Persia, "Telemedicine, Homecare in the Era of COVID-19 & Beyond", *2020 Third International Conference on Artificial Intelligence for Industries (IEEE ai4i 2020)*, virtual, (2020).

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[C53] *F. Persia*, D. D'Auria, M. Ge: Improving Learning System Performance with Multimedia Semantics, *2020 IEEE 14th International Conference on Semantic Computing (IEEE ICSC 2020)*, San Diego, CA, USA, (2020).

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[C51] D. D'Auria, M. Ge, *F. Persia*: Exploiting Recommender Systems in Collaborative Healthcare, the 16th International Symposium on Pervasive Systems, Algorithms and Networks (I-SPAN 2019), Naples, Italy, (2019).

[C50] *F. Persia* and S. Helmer: High-level Automatic Event Detection and User Classification in a Social Network Context, *the Sixth International Workshop on Graphical Models for Security (GraMSec 2019) – co-located with 32nd IEEE Computer Security Foundations Symposium (IEEE CSF 2019)*, Hoboken, NJ, USA, (2019).

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[C45] *F. Persia*, M. Ge, D. D'Auria, How to Exploit Recommender Systems in Social Media, *2018 IEEE International Conference on Information Reuse and Integration (IEEE IRI 2018)*, 537-541, Salt Lake City, Utah, USA, (2018).

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[C37] M. Ge, *F. Persia*: Research Challenges in Multimedia Recommender Systems, *In: First International Workshop on Semantic Multimedia Computing (SMC '17) in conjunction with the Eleventh IEEE International Conference on Semantic Computing (IEEE ICSC 2017)*, 344-347, San Diego, CA, USA, (2017).

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Everything stated is true in accordance with Articles 46 and 47 of Presidential Decree 445/2000.

Date   Signature

18/01/2024