

**PERSONAL INFORMATION**

**Annalisa Appice**



**Affiliation**  
 University of Bari Aldo Moro  
 Department of Computer Science  
 Via E. Orabona 4, 70126 BARI – ITALY

+39 0805443262 +39 3772141381

[annalisa.appice@uniba.it](mailto:annalisa.appice@uniba.it)

<http://www.di.uniba.it/~appice/>

Sex Female | Date of birth 28/07/1976 | Nationality Italy

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

**WORK EXPERIENCE**

from December 28, 2018– to today

**Associate Professor SSD ING-INF 05**

University of Bari Aldo Moro, Department of Computer Science, Via E. Orabona 4, 70126 BARI – ITALY ([www.di.uniba.it](http://www.di.uniba.it))

Skills: Teaching a number of classes on advanced programming, artificial intelligence and cybersecurity; Conducting research, publishing papers, and attending conferences; Supervising, advising, and mentoring graduate and PhD students; Mentoring post-doc researchers; Organizing and attending conferences and workshops; Writing proposals to secure research funding and coordinating research units in projects; Organizing department events where students can interact with established industry professionals

Subjects covered: Artificial Intelligence; XAI; Deep learning; Cybersecurity; Process mining; Stream data mining

from January 2, 2009– to December 28, 2018

**Assistant Professor SSD ING-INF 05**

University of Bari Aldo Moro, Department of Computer Science, Via E. Orabona 4, 70126 BARI – ITALY ([www.di.uniba.it](http://www.di.uniba.it))

Skills: Teaching a number of classes on advanced programming; Conducting research, publishing papers, and attending conferences; Supervising graduate and PhD students; Organizing and attending conferences and workshops; Writing proposals to secure research funding; Organizing department events where students can interact with established industry professionals

Subjects covered: Artificial Intelligence; Machine learning; Process Mining; Stream data mining; Spatio-temporal data mining

from March 23, 2005 to January, 2009

**Post-doc researcher**

University of Bari, Department of Computer Science, Via E. Orabona 4, 70126 BARI – ITALY ([www.di.uniba.it](http://www.di.uniba.it))

Skills: Teaching a number of seminars; Conducting research, publishing papers, and attending conferences; Co-supervising graduate students; Attending conferences and workshops, organizing workshops

Subjects covered: Artificial Intelligence; Machine learning; Process Mining; Relational data mining, Spatial data mining

**EDUCATION AND TRAINING**

from November 1, 2001, to March 23, 2005

**PhD in Computer Science, thesis on “Learning Relational Model Tree”**

EQF 8

University of Bari, Department of Computer Science, Via E. Orabona 4, 70126 BARI – ITALY ([www.di.uniba.it](http://www.di.uniba.it))

from November 1, 1995, to March  
30, 2001

- Skills acquired: Written and oral communication; Presentation; Critical thinking; Management; Creativity and innovation; Listening and reflection; Learning
  - Subjects covered: Artificial intelligence; Machine learning; Relational data mining; Spatial data mining
- Laura degree in Computer Science (summa cum Laude)** EQF 7

University of Bari, Department of Computer Science, Via E. Orabona 4, 70126 BARI – ITALY  
([www.di.uniba.it](http://www.di.uniba.it))

- Skills acquired: Written and oral communication; Presentation; Critical thinking; Listening and reflection; Learning
- Subjects covered: Machine learning

## WORK ACTIVITIES

### Awards

- Best Paper award at MLDM 2012. M. Ceci, A. Appice, H. L. Viktor, D. Malerba, E. Paquet, H. Guo, Transductive Relational Classification in the Co-training Paradigm. MLDM 2012: 11-25, 10.1007/978-3-642-31537-4\_2

### Editorial activity

- Co-editor of n. 11 volumes edited by Springer (doi: 10.1007/978-3-030-65965-3, 10.1007/978-3-030-61527-7, 10.1007/978-3-030-36617-9, 10.1007/978-3-319-78680-3, 10.1007/978-3-319-60438-1, 10.1007/978-3-319-61461-8, 10.1007/978-3-319-17876-9, 10.1007/978-3-319-23528-8, 10.1007/978-3-319-23525-7, 10.1007/978-3-319-08407-7, 10.1007/978-3-642-37382-4) on the topics artificial intelligence and machine learning
- Co-guest editor of n. 4 special issues published by Springer on Machine Learning Journal (10.1007/s10994-021-06062-y), Data Mining and Knowledge Discovery (10.1007/s10618-021-00792-2), Journal of Intelligent Information Systems (10.1007/s10844-016-0415-6, 10.1007/s10844-013-0301-4) on the topics artificial intelligence and machine learning
- Member of the Journal Editorial Board of: (1) Machine Learning Journal (<https://www.springer.com/journal/10994/editors>), (2) Data Mining and Knowledge Discovery (<https://www.springer.com/journal/10618/editors>), (3) Journal of Intelligent Information Systems (<https://www.springer.com/journal/10844/editors>), (4) Intelligenza Artificiale (<https://www.iospress.com/catalog/journals/intelligenza-artificiale>)
- Co-guest editor of n.1 special issue on “AI meets Cybersecurity” in Journal of Intelligent Information Systems (<https://www.springer.com/journal/10844/updates/19866784>) under development

### Invited presentations

- Keynote speaker on “Artificial Intelligence meets Cybersecurity” at FMEC 2021, December 6-9, 2021 (IEEE, <http://emergingtechnet.org/FMEC2021/keynote-speakers.php>)
- Invited speaker on “Spatio-temporal data mining: Part 2” at SUMMER SCHOOL in “Mining Big and Complex Data”, September 4-8 2016 ([https://videlectures.net/miningdata2016\\_ohrid/](https://videlectures.net/miningdata2016_ohrid/))
- Invited focus talk on “Data Mining Techniques in Sensor Networks: Summarization, Interpolation and Surveillance” at DAGSTUHL SEMINAR 13492 Geosensor Networks: Bridging Algorithms and Applications, December 1-6, 2013 <http://www.dagstuhl.de/en/program/calendar/semhp/?semnr=13492>)
- Panellist in the panel on “Robustness of ML-based cybersecurity against adversarial attacks” organized within the 3rd International Workshop on Machine Learning for Cybersecurity co-located with ECML PKDD 2021, September 13, 2021 (<https://mlcs.lasige.di.fc.ul.pt/>)

### Organization and Coordination of Research Events

- Co-chair of n.11 International Workshops on: “Machine Learning for Cybersecurity” (MLCS) collocated with ECML-PKDD (editions 2019,2020); “Leveraging Machine Learning in Process Mining” (ML4PM) collocated with ICPM (editions 2020, 2021, 2022); “New Frontiers in Mining Complex Patterns” (NFMCS) collocated with ECML-PKDD (editions 2012, 2013, 2014, 2016, 2017, 2018)
- Co-Program Chairs on n. 3 conferences: DS 2020, October 19-21, 2020; ISMIS 2017, June 26-29, 2017 (CORE C); ECMLPKDD 2015, September 7-11, 2015 (CORE A)
- Area Chair of ECML-PKDD 2012, ECML-PKDD 2022, ICPR 2022 on the topics: artificial intelligence and machine learning
- Steering committee member of ISMIS (2018-today), ECML-PKDD (2016-2018, 2022-2024)

- Relevant Research collaborations with Foreign Research Institutes**
- Lorenzo Cavallaro (UCL) and Fabio Pierazzi (King's College) on the topics concept drift robustness, network intrusion detection, deep learning, XAI (results published in 10.1145/3474369.3486864)
- Research Project management**
- Coordinator of the Research Unit of the Department of Computer Science of University of Bari Aldo Moro in n.1 regional project funded by INNOLABS Program- Apulia Region (Kometa topic: process mining) and n. 2 national projects funded by PON Research and Innovation (2014-2020) – MIUR (RPASinAir, ARS01\_00820, topic: machine learning; CLOSE to the Earth, ARS01\_00141, topic: machine learning)
  - MC member in the CoST Action GW2Net and co-leader of the working group 1 - Machine Learning for Gravitational Wave astronomy
- Team leadership**
- Supervisor of n. 3 PhD students (topics: cybersecurity, XAI, adversarial learning, GDPR compliance), and co-supervisor of n.1 phd student (topic: remote sensing) at ), PhD School in Informatics and Mathematics , University of Bari Aldo Moro.
  - Supervisor of n. 3 PhD students (topics: remote sensing, machine learning for cyber security, process mining) that completed the PhD between 2015 and 2022 at ), PhD School in Informatics and Mathematics , University of Bari Aldo Moro
  - She is responsible of n. 1 post-doc program (topic: artificial intelligence for cybersecurity) and she was responsible of 1 post-doc program (topic: spatio-temporal data mining) at University of Bari Aldo Moro.
- Grants**
- Patents**
- Teaching in PhD courses**
- From 2014-to now
- Data Mining + Lab(20 hours) ('art. 4, comma 1, lett. (f) DM 45February, 8 2013) PhD schools, XXIX cycle, University of Bari Aldo Moro, June-July 2014;
  - Stream Data Mining, SSD ING-INF/05 (20 hours), PhD School in Informatics and Mathematics, XXX Cycle, University of Bari Aldo Moro, June-July 2015;
  - Stream Data Mining [CFU 5, 40 hours], SSD ING-INF/05, PhD School in Informatics and Mathematics, XXXI Cycle, University of Bari Aldo Moro, June-July2016;
  - Advanced Techniques to Mining Structured Data – Module 1 on Process mining, SSD ING-INF/05, [CFU 2, 16 hours], PhD School in Informatics and Mathematics, XXXI and XXXII Cycles, University of Bari Aldo Moro, June -July 2017.
  - Machine Learning for Cybersecurity SSD ING-INF/05, [CFU 2, 16 hours], PhD School in Informatics and Mathematics, XXXIV Cycle, University of Bari Aldo Moro, January-February 2019.
  - Advanced Machine Learning Techniques for cyber defence SSD ING-INF/05, [CFU 1, 8 hours], PhD School in Informatics and Mathematics, XXXVII Cycle, University of Bari Aldo Moro, June 2022.

#### ADDITIONAL INFORMATION

Publications (Scopus accessed on May, 3 2022)

total number of publications: 171

(<https://www.scopus.com/authid/detail.uri?authorId=6603601473>)

total number of citations: 1692 from 1270 documents

H index 20

Bari, May, 3 2022

