

PERSONAL INFORMATION

Mario Alessandro Bochicchio



📍 Affiliation
University of Bari "Aldo Moro"
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Sex M | Date of birth 04/02/1964 | Nationality Italian

CURRENT POSITION

University	EPR	Enterprise
<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"/> Management Level
<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist	<input type="checkbox"/> Mid-Management 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	<input type="checkbox"/> Employee / worker level

WORK EXPERIENCE

From 30/12/2020 to present

Associate Professor

University of Bari Aldo Moro, Department of Computer Science

- Teaching "Programazione", "Gestione dei dati strutturati e non strutturati", "Ethics, security and privacy"
- Faculty Board member – PhD School

Computer Science

From 01/12/2001 to 29/12/2020

Associate Professor

University of Salento, Department of Innovation Engineering

- Teaching "Big Data Management", "Database design"
- Faculty Board member – PhD School

Computer Science

From 01/08/1997 to 30/11/2001

Researcher

University of Salento, Department of Innovation Engineering

- Teaching "Database", "Fundamentals of Computer Science"
- Computer Science

EDUCATION AND TRAINING

1995 PhD – Computer Science

*Replace with EQF
(or other) level if
relevant*

Politecnico di Bari, Bari (Italia)

- Computer architectures; parallel computing; remote sensing; eHealth.

1990 Degree in Electronic Engineering (old regulatory system, 5 years degree)

- Politecnico di Bari, Bari (Italia)
- Computer architectures; programming; digital signal processing; eHealth.

Editorial activity

2022 IEEE International Conference on Digital Health – Program Chair
 2016 Editor, proc. Of SEBD Italian Conference on Database Systems
 Keynote speaker: Experiment@ 2019 International conference - <https://expat.org.pt/home/>
 Invited speaker: Experiment@ 2017 Int. Conference - <https://expat.org.pt/home/>

Invited presentations

Invited Speaker: Experiment@ 2015 Int. Conference - <https://expat.org.pt/home/>
 Invited Speaker: Smart Hospital 2.0 – Monza, 30 Marzo 2022, @ITIM Associazione Italiana di Telemedicina

Grants

- **Un ponte per l'Isola di Noi.** PreCommercial Procurement, AGID, call "AUTISMO" 2017, accepted for funding but not yet started
- **APOLLON** - environmental POLLution analyzer. POR Puglia FESR-FSE 2014-2020, Asse prioritario 1 - Ricerca, sviluppo tecnologico, innovazione, Azione 1.6 "Interventi per il rafforzamento del sistema innovativo regionale e nazionale e incremento della collaborazione tra imprese e strutture di ricerca e il loro potenziamento. Bando INNONETWORK - Sostegno alle Attività di R&S per lo Sviluppo di Nuove Tecnologie Sostenibili, di Nuovi Prodotti e Servizi
Role: Partner
<https://apollon-project.it/>
 funding: overall 1.800.000 €, my research unit: about 200.000 €

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English: C1

French: B1

ADDITIONAL INFORMATION

- **From Dec. 2021 to present: Director – Digital Health National Laboratory, Consorzio Interuniversitario Nazionale per l'Informatica**
- From March 2018 a June 2021: National Coordinator - Digital Health Working Group - Consorzio Nazionale Interuniversitario per l'Informatica (CINI)
- From Dec 2001 to Dec 2020 Scientific Coordinator - Software Engineering and Telemedia Lab (SETLab) Department of Innovation Engineering - University of Salento, Lecce;

Publications

Bibliometric
 total number of citations:
 Google Scholar 1195
 Scopus 662
 H index
 Google Scholar 17
 Scopus 14

List of relevant publications:

1. Vaira, L., Marra, **M.**, **Bochicchio**, M., & Suppressa, P. (2019, April). Monitoring Data During and After Pregnancy to Early Detect Rare Diseases: The Edera Project. In *Journal Of The Peripheral Nervous System* (Vol. 24, Pp. S45-S45). 111 River St, Hoboken 07030-5774, Nj Usa: Wiley.
2. Hoi, C. S., Leung, C. K., Tran, K., Cuzzocrea, A., **Bochicchio**, M., & Simonetti, M. (2018, June). Supporting social information discovery from big uncertain social key-value data via graph-like metaphors. In *International Conference on Cognitive Computing* (pp. 102-116). Springer, Cham.
3. **M. Bochicchio**, A. Cuzzocrea, L. Vaira, A. Longo and M. Zappatore (2018) "Multidimensional Mining over Big Healthcare Data: A Big Data Analytics Framework". Proceedings of the 26th Italian Symposium on Advanced Database Systems (SEBD 2018), 24-27 June 2018, Castellaneta Marina, Taranto, Italia.
4. L. Vaira, **M.A. Bochicchio**, M. Conte, F. Margiotta Casaluci, A. Melpignano (2018) "MamaBot: a System based on ML and NLP for supporting women and families during pregnancy". 22nd International Database Engineering & Applications Symposium (IDEAS '18), June 18-20, 2018 Villa San Giovanni, Calabria, Italy.
5. L. Vaira and **M.A. Bochicchio** (2018) "Smart Anamnesis for Gyn-Obs: Issues and Opportunities". In: Longo A. et al. (eds) *Cloud Infrastructures, Services, and IoT Systems for Smart Cities*. IISSC 2017, CN4IoT 2017. Lecture Notes of the Institute for Computer Sciences, Social Informatics and

- Telecommunications Engineering, vol 189. Springer, Cham. doi: 10.1007/978-3-319-67636-4_11. Print ISBN: 978-3-319-67635-7. Online ISBN: 978-3-319-67636-4
6. A. Longo, S. Navathe, **M.A. Bochicchio**, M. Zappatore (2017) "Crowd-Sourced Data Collection for Urban Monitoring via Mobile Sensors", *ACM Transaction on Internet Technologies (Special Issue on Technology Connected Communities)*, vol. 18, issue 1, October 2017. DOI: 10.1145/3093895.
 7. **M.A. Bochicchio**, A. Cuzzocrea, L. Vaira (2016) "A Big Data Analytics Framework for Supporting Multidimensional Mining over Big Healthcare Data". 15th IEEE International Conference on Machine Learning and Applications (IEEE ICMLA) pp. 508-513. December 18-20, 2016, Anaheim, CA, USA. DOI: 10.1109/ICMLA.2016.0090
 8. M. Zappatore, A. Longo, **M.A. Bochicchio**, D. Zappatore, A.A. Morrone, G. De Mitri (2016) "A Mobile Crowd-Sensing Platform for Noise Monitoring in Smart Cities", in: M. Villari (Ed.) *EAI Endorsed Transactions on Smart Cities*, 16(1), pp. 14, 18 July 2016. DOI: 10.4108/eai.18-7-2016.151627. ISSN (Print): 2518-3893
 9. L. Vaira, **M.A. Bochicchio** and S.B. Navathe (2016) "Perspectives in Healthcare Data Management with Application to Maternal and Fetal Wellbeing". in: M.A. Bochicchio, G. Mecca (Eds.) *Proceedings of the 24th Italian Symposium on Advanced Database Systems (SEBD 2016)*, 19-22 June 2016, Ugento, Lecce, Italia, pp. 31-41. ISBN (Print): 9788896354889
 10. A. Longo, M. Zappatore, **M.A. Bochicchio**, B. Livieri, N. Guarino, D. Napoleone (2016) "Cloud for Europe: the Experience of a Tenderer", 30th IEEE Int. Conference on Advanced Information Networking and Applications (AINA 2016) – Workshop on Cloud Computing Project and Initiatives (CCPI'16), 23-25 March, 2016, Crans Montana, Switzerland, pp.153-158, DOI: 10.1109/WAINA.2016.66, ISBN (Print): 978-1-5090-2461-2/16
 11. **M.A. Bochicchio** and L. Vaira (2016) "Fetal Growth: Where Are Data? It's Time For a New Approach". *International Journal on Biomedicine and Healthcare* 2016, 4(1):18–22
 12. **M.A. Bochicchio**, L. Vaira, E. Cicinelli, A. Vimercati (2015) "Dealing with incompleteness in Multidimensional Analysis of Health Records: an Experience on Fetal Growth". 2015 IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Washington D.C., USA, 9-12 Nov 2015, pp. 1032-1038. doi: 10.1109/BIBM.2015.7359825
 13. **M.A. Bochicchio**, L. Vaira, M. Zappatore, G. Lobreglio, M. Greco (2015) "An Open Data Approach for Clinical Appropriateness" in M.E. Renda, M. Bursa, A. Holzinger, S. Khuri (Eds.) *Information Technology in Bio- and Medical Informatics, 6th International Conference on Information Technology in Bio- and Medical Informatics (ITBAM 2015)*, 3-4 September, 2015, Valencia, Spain, LNCS, series vol. 9267, pp. 25-33, 2015. DOI: 10.1007/978-3-319-22741-2_3, ISBN (Print): 978-3-319-22740-5, ISBN (Online) 978-3-319-22741-2
 14. **M.A. Bochicchio** and L. Vaira (2015). Using Binary Tables to Manage Incompleteness in Multidimensional Analysis. *Proceedings of 22nd Italian Symposium on Advanced Database Systems (SEBD) 2015* pp. 296-303, Gaeta (IT), 14-17 June 2015
 15. L. Vaira and **M.A. Bochicchio** (2015) "Can ICT Help to Solve the Clinical Appropriateness Problem? - An Experience in the Italian Public Health". *Journal of Communication and Computer* Volume 12 Issue 6 (June 2015) pp. 303-310 doi: 10.17265/1548-7709/2015.06.004
 16. A. Malvasi, **M.A. Bochicchio**, L. Vaira, A. Longo, E. Pacella, A. Tinelli (2014) "The fetal head evaluation during labour in the occiput posterior position: the esa (evaluation by simulation algorithm) approach". *Journal of Maternal-Fetal & Neonatal Medicine* 2014 Jul 7;27(11):1151-7. Epub 2013 Nov 7. doi:10.3109/14767058.2013.851188
 17. **M.A. Bochicchio**, L. Vaira, A. Longo, A. Malvasi, A. Tinelli (2014) "FPGT: An Online System for Customized Fetal and Pediatric Growth Tracking", 2nd International Conference on Biomedical and Health Informatics (BHI2014) pp 424-427, Valencia, Spain, 1-4 June 2014. doi:10.1109/BHI.2014.6864393
 18. **M.A. Bochicchio**, L. Vaira, A. Longo, A. Malvasi and A. Tinelli (2014) "Quantitative Fetal Growth Curves Comparison: a Collaborative Approach", *Information Technology in Bio- and Medical Informatics. 5th International Conference, ITBAM 2014*, Munich, Germany, September 2, 2014. pp 60-74. doi: 10.1007/978-3-319-10265-8_5 Print ISBN: 978-3-319-10264-1 Online ISBN: 978-3-319-10265-8
 19. A. Tinelli, **M.A. Bochicchio**, L. Vaira, A. Malvasi (2014) "Ultrasonographic Fetal Growth Charts: An Informatic Approach by Quantitative Analysis of the Impact of Ethnicity on Diagnoses Based on a Preliminary Report on Salentinian Population" *BioMed Research International*, vol. 2014, Article ID 386124, 10 pages, 2014. doi: 10.1155/2014/386124.
 20. **M.A. Bochicchio** and L. Vaira (2014) "Are static fetal growth charts still suitable for diagnostic purposes?". 2014 IEEE International Conference on International Workshop on Bioinformatics and

- Biomedicine (BIBM) pp 1-8. Belfast, UK, 2-5 November 2014. doi: 10.1109/BIBM.2014.6999260
21. **M.A. Bochicchio**, A. Longo, L. Vaira, A. Malvasi, A. Tinelli (2013) "Creating dynamic and customized fetal growth curves using cloud computing". 13th IEEE International Conference on Bioinformatics and BioEngineering (BIBE), 10-13 November 2013 Chania, Greece. pp. 1-4. eid=2-s2.0-84894193881 doi: 10.1109/BIBE.2013.6701543
 22. **M.A. Bochicchio**, L. Vaira, A. Longo, A. Malvasi, A. Tinelli (2013) "Multidimensional Analysis of Fetal Growth Curves". 2013 IEEE International Conference on Big Data, Santa Clara, 6-9 Oct. 2013. pp 23-28 doi: 10.1109/BigData.2013.6691754. Also published in itAIS 2013. eid=2-s2.0-84893326335
 23. **M.A. Bochicchio**, L. Vaira, A. Longo and Sergio Ramazzina (2013) "Online Data Analysis of Fetal Growth Curves". 13th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP). Vietri sul Mare, Italy, Dec. 18-20, 2013, Proceedings, Part II pp 149-156. doi: 10.1007/978-3-319-03889-6_17 Print ISBN: 978-3-319-03888-9 Online ISBN: 978-3-319-03889-6
 24. A. Tinelli, R. Prudeniano, M. Torsello, A. Malvasi, G. De Nunzio, I. De Mitri, **M. Bochicchio**, D.A. Tsin, P. Krishnan, J.M. Wiley (2012) "Suprapubic percutaneous sclero-embolization of symptomatic female pelvic varicocele under local anesthesia". European Review For Medical And Pharmacological Sciences, vol. 16 (1), p. 111-117, ISSN:1128-3602
 25. A. Tinelli, A. Malvasi, S. Gustapane, G. De Nunzio, **M. Bochicchio**, L. De Paolis, G. Aloisio (2011) "Robotic Assisted Surgery in Endoscopy: The Problem of Learning Curve". In: Hana Terzic. Laparoscopy: New Developments, Procedures and Risks. vol. Chapter 2, p., Hauppauge NY: nova science publishers, ISBN: 9781614708490
 26. A. Tinelli, A. Malvasi, S. Gustapane, G. De Nunzio, **M. Bochicchio**, L. De Paolis, G. Aloisio, D.A. Tsin (2011) "The Utilization of Novel Technology in Risk Reducing Laparoscopic Gynecological Complications". In: Hana Terzic. Laparoscopy: New Developments, Procedures and Risks. vol. Chapter 3, p., Hauppauge NY: nova science publishers, ISBN: 9781614708490
 27. A. Tinelli, L. De Paolis, G. Aloisio, G. De Nunzio, **M. Bochicchio**, A. Malvasi (2011) "Laparoscopic Trainers and Surgical Virtual Simulators in Laparoscopic Learning Curve". In: Hana Terzic. Laparoscopy: New Developments, Procedures and Risks. p., Hauppauge NY: nova science publishers, ISBN: 9781614708490
 28. E. Cicinelli, A. Bortone, I. Carbonara, G. Incampo, **M. Bochicchio**, G. Ventura, S. Montanaro, G. Aloisio (1994) "An improved equipment for abdominal fetal electrocardiogram recording: description and clinical evaluation". International Journal Of Biomedical Computing, vol. 35, p. 193-205, ISSN: 0020-7101

Projects **List of relevant projects**

- **Un ponte per l'Isola di Noi**. PCP AGID AUTISMO 2017
- **IMMUNEFORCE** - Combining European forces for better control and treatment of immune-mediated diseases by identification of therapy-response and cross-disease biomarkers. IMI2 CALL 14 TOPIC 1 Subtopic 1 [*submitted, under evaluation*]
- **INNODRUG** - federated and privacy preserving machine learning for INNOvative DRUG discovery. IMI2 CALL 14 TOPIC 3 [*submitted, under evaluation*]
- **REAL** - patient-centerEd clinicAl trials. IMI2 CALL 14 TOPIC 4 [*submitted, under evaluation*]
- **APOLLON** - environmental POLLutiOn aNalyzer. POR Puglia FESR-FSE 2014-2020, Asse prioritario 1 - Ricerca, sviluppo tecnologico, innovazione, Azione 1.6 "Interventi per il rafforzamento del sistema innovativo regionale e nazionale e incremento della collaborazione tra imprese e strutture di ricerca e il loro potenziamento. Bando INNONETWORK - Sostegno alle Attività di R&S per lo Sviluppo di Nuove Tecnologie Sostenibili, di Nuovi Prodotti e Servizi –coordinatore scientifico dell'unità di ricerca CINI
- Progetto **EDOC@Work** 3.0: Research Unit Coordinator for the University of Salento;
- Progetto **SILAB** Research Unit Coordinator for the University of Salento;
- **Progetto ESC: Excellence Service Center** (02/2010 - 02/2011) – **scientific coordinator**
- **Progetto ESITO: Efficientamento Servizi IT in Outsourcing** – **scientific coordinator**
- **Progetto Differenzi@net** - **scientific coordinator**
- **HNC: Health Net Community** – **scientific coordinator**
- **INTESE**: call DG EAC No 04/02, European Commission– **principal researcher and coordinator**

Other Relevant Information

- **UWA: Ubiquitous Web Applications**, EU 5th Framework Program, IST Programme, IST-2000-25131, RTD project/Action line 2a/II.1.3 - **participant**
- **SIMOS: IV ESPRIT Program 24** - **research unit coordinator**
- **KNOW: PON "Ricerca Scientifica, Sviluppo Tecnologico, Alta Formazione"** 2000-2006, Avviso n. 4391 del 31/07/2001 - Asse III - Misura 6 - **scientific coordinator**
- **Macbeth: Progetto n. 1115/305** - master alta formazione - PON "Ricerca Scientifica, Sviluppo Tecnologico, Alta Formazione" 2000-2006, Avviso n. 4391 del 31/07/2001 - Asse III - Misura 6 - **scientific coordinator**
- **ICT-Cult** - Progetto n. 962/152 - master alta formazione - PON "Ricerca Scientifica, Sviluppo Tecnologico, Alta Formazione" 2000-2006, Avviso n. 4391 del 31/07/2001 - Asse III - Misura 6 - **scientific coordinator**
- **MAINE** - Progetto n. 1114/304 - master alta formazione - PON "Ricerca Scientifica, Sviluppo Tecnologico, Alta Formazione" 2000-2006, Avviso n. 4391 del 31/07/2001 - Asse III - Misura 6 - **scientific coordinator**

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Bari , April 2022

Mauro A. Bochicchio
