

## Europass Curriculum Vitae



### Personal information

Name / Surname Vitali, Monica

Address

DEIB, Politecnico di Milano, via Giuseppe Ponzio 34/5, 20133 Milano (MI), Italy

Telephone

Personal Email

Nationality

**ORCID** 

https://orcid.org/0000-0002-5258-1893

#### **Academic Positions**

Dates | Since March 2020

Occupation or position held Assistant Professor

Name and address of employerPolitecnico di Milano, ITALY

Dates | Since February 2020

Occupation or position held Visiting Researcher

Name and address of employerUmea University, SWEDEN

Dates From April 2019 to January 2020

Occupation or position held Senior Lecturer (Associate Professor)

Name and address of employerUmeå University, SWEDEN

Dates From January 2014 to February 2020

Occupation or position held Research Fellow

Name and address of employerPolitecnico di Milano, ITALY

### Education and training

Dates From September 2012 to February 2013

Title of qualification awarded Visiting Student at the Computer Science and Artificial Intelligence Laboratory at MIT

Organization Massachusetts Institute of Technology

Dates From January 2011 to December 2013

Title of qualification awarded Ph.D. in Information Technology

Organization Politecnico di Milano

Thesis Title "Measuring and Improving Energy Efficiency of a Data Center in a Self-Adaptive Con-

Dates From October 2006 to April 2009

Title of qualification awarded Master of Science in Computer Engineering (First-Class Honours)

Organization Università degli studi di Palermo

Thesis Title "Study of an Agent Model based on the genetic metaphor"

Dates From September 2003 to October 2006

Title of qualification awarded Bachelor of Science in Computer Engineering (First-Class Honours)

Thesis Title "Genetic Programming in Multi-Agent Systems: an Application"

Organization Università degli studi di Palermo

### Fellowships and Awards

2019 C. M. Lerici Fellowship, joint research between Italy and Sweden as a visiting research

Progetto Roberto Rocca Fellows is Ph. DC and idate CSAIL Massachusetts

Institute of Technology (MIT), Cambridge, USA

### **Teaching**

2021/2022 to 2022/2023 LecturertnFORMATICAA, Politecnico di Milano, Italy

2019/2020 to 2022/2023 Lecturer DIGITAL TECHNOLOGIES Politecnico di Milano, Italy

2019/2020 LecturerCLOUDCOMPUTING Umeå University, Sweden

2019/2020 LecturerADVANCEDDISTRIBUTEDSYSTEMS Umeå University, Sweden

2017/2018 to 2018/2019 LecturertnFORMATIONSYSTEMS, Politecnico di Milano, Italy

2014/2015 to 2018/2019 LecturertNFORMATIONSYSTEMS Politecnico di Milano (Como), Italy

# Participation in International Research Projects

2022-now	TEADAL, Trustworthy, Energy-Aware federated DAta Lakes along the computing cor uum, Horizon EU European Project
2022-now	CS-AWARE-NEXDynamiccybersecuritynanagemenfor organisationand lo- cal/regionaletworks based on awareness and collaboladioizon EU European Project
2020-2023	CROWD4SDG, Citizen Science for Monitoring Climate Impacts and Achieving Climat Resilience, H2020 European Project
2017-2019	DITASData-intensive application Improventumentoving daTA and computation in mixed cloud/fog environmentS, H2020 European Project
2016-2017	EU-BRA BigSEA, Europe- <b>BCatli</b> boration of BIG Data Scientific Research through Cloud-Centric Applications, H2020 European Project
2012-2014	Eco2Clouds, Experimental Awareness of CO2 in Federated Cloud Sourcing, 7th Fran

GAMESGreen Active Management Tenergy in IT Service centerts, Framework

work European Project

European Project

2010-2012

2009-2010

2023

HUMANOB\$\(\frac{1}{2}\) umanoids that arn Socio-Communicative Skills by Obse\(\bar{r}\) thation, Framework European Project

General chair of the IEEE Big Data Services Conference (BDS), Athens, Greece

# Organisation of Scientific Meetings

	Sustainability Chairhuf Int. Conference on Advanced Information Systems Engineering (CAISE), Zaragoza, Spain
2022	Program chair of the IEEE Big Data Services Conference (BDS), Fremont, CA, USA
2021	Program chair of the IEEE Joint Cloud Conference (JCC)
	Doctoral Symposium Chair of the of the IEEE fletence on Cloud Engineering (IC2E), San Francisco, CA, USA
	Chair of the IntWorkshop on Next Generation Information Systems (NetIS2021), CAISE'21, June 29 2021, Melbourne, Australia
2020	Chair of the IntWorkshop on Next Generation Information Systems (NetIS2020), CAISE'20, June 09 2020, Grenoble, France
2016	Chair of the IntWorkshop on Energy-awareness and Big Data Management in Information Systems (EnBIS2016), at CAISE'16, June 14 2016, Ljubljana, Slovenia

### **Reviewing Activities**

**Leading Guestiditor** of the Specialssue on Co-design Data and Computation Managemeint Fog Computing for the Future Generation Computer Systems Journal (FGCS) (2019-2021)

**PC Member** of 20+ international erences including WWW, ICDCS, CAISE, ICSOC, and RCIS.

**Reviewer** of 15+ international journals including FGCS, IEEE TSC, IEEE TNSM, COIEEE TCC, ACM TWEB, JPDC, and ACM TAAS

#### Scientific Publications

Complete list of publications:

https://www.scopus.com/authid/detail.uri?authorId=42662409700

### **Top Relevant Publications**

Monica VitaliTowards greener applications bling sustainable-aware cloud native applications design. International Conference on Advanced Information Systems Engineering, pages 93–108. Springer, 2022

Carlo A. Bono, Cinzia Cappiello, Barbara Pernici, Edoardo Ramalli, and Monica Vitali Pipeline design for data preparation for social medial Malysis nal of Data and Information Quality, pages 1–15, 2023

Giulia Mangiaracina, PierRietiani, Mattia Salnitri, and Monica Effictient Data as a Service in Fog Computing: an Adaptive Multi-agent Based Exproracts-actions on Cloud Computing (IEEE TCC), 0(0):1–18, 2022

Sandro Fiore, Donatello Elia, Carlos Pires, Demetrio Mestre, Cinzia Cappiello, Monic Vitali, Nazareno Andradarciso Brazaniele Lezzagegina Moraesania Basso, Nadia Kozievitch, Keiko Fonseca, Nuno Antunes, Marco Vieira, Cosimo Palazzo, Ign Blanquer, Wagner Meira, and Giovanni Addistiegrated big and fast data analytics platform for smart urban transportation manalistate Access, pages 1–26, 2019. Impact Factor: 4.098, SJR index: 0.609

Edoardo Fadda, Pierluigi Plebani, and Moħid�dofiltæliring-aware Optimal Deployment for Applications based on Micros�EÆÆ£§Transactions on Services Computing (IEEE TSC), pages 1–15, ஹ்ஹ்ct Factor: 4.418, SJR index: 0.870

Danilo Ardagn&inzia CappiellWalterSamá,and Monica Vitali Context-aware Data Quality Assessment for Big Pattare Generation Computer Systems (FGCS), 89:548–562, 2016 pact Factor: 4.639, SJR index: 1.151

Usman WajicÇinzia Cappielle; ierluigPlebani, Barbara PernidNikilay Mehandjiev, Monica Vitali, Micloaehger, Kostas Kavoussanakis, David Margery, David Garcia Perezand Pedro Sampaion Achieving Energy Efficiency and Reducing CO2 Footprinin Cloud Computing EEE Transactions on Cloud Computing (IEEE TCC), 4(2):138 – 151, 20 Into pact Factor: 7.928, SJR index: 1.186

Cinzia Cappiello, NguyenThaio Ho, Barbara Pernici, Pientleigiani, and Monica Vitali. CO2-aware Adaptation Strategies for Cloud Applications on Cloud Computing (IEEE TCC), 4(2):152–165,n2024c3. Factor: 7.928, SJR index: 1.186

Monica VitāļiBarbara Pernici, and Una-May O'Realtying a goal-oriented model for energy efficient adaptive applications in data centers. *Information Sciences*, 319:1170, 2015mpact Factor: 4.305, SJR index: 2.513

Monica Vitåland Barbara Perni&i.Survey on Energy Efficiency in Information Systems. *Internationalburnabf Cooperative Information Systems (IJCIS)*, 23(03), 2014. SJR index: 0.256

12/05/2023