




Claudia Canali

Data di nascita: 16 giu 1977

Nazionalità: Italiana

CONTATTI

 Via Vivarelli 10,
41125 Modena, Italia (**Lavoro**)

 claudia.canali@unimore.it

 (+39) 36667011448

ESPERIENZA LAVORATIVA

31 OTT 2018 – ATTUALE Modena, Italia

Associate Professor Department of Engineering 'Enzo Ferrari', University of Modena and Reggio Emilia

Main research interests: Cloud and Edge Computing, Social Network Analysis, Geographical Information Systems

23 MAG 2022 – ATTUALE Formigine, Italia

Co-founder ECODERS innovative startup ECODERS

- maintenance of computers
- relations with suppliers
- coaching a junior Ice Hockey team (10 hours/week)

30 NOV 2008 – 30 OTT 2018 Modena, Italia

Researcher Department of Engineering 'Enzo Ferrari', University of Modena and Reggio Emilia

Main research interests: High Performance Distributed Systems, Social Network Analysis, Geographical Information Systems
Research Institutions

31 DIC 2006 – 29 NOV 2008 Pisa, Italia

Temporary Research Fellow Institute of Informatics and Telematics (National Research Council)

Research subject: Wireless Mesh Networks

31 MAR 2004 – 29 NOV 2004 Florham Park, NJ, Stati Uniti

Visiting researcher AT&T Research Labs

Research subject: distributed systems, Web content delivery, utility computing

31 DIC 2005 – 30 DIC 2006 Modena, Italia

Temporary Research Fellow Department of Information Engineering, University of Modena and Reggio Emilia

Research subject: High Performance Distributed Systems for Web Services

ISTRUZIONE E FORMAZIONE

31 DIC 2002 – 30 DIC 2005 Parma, Italia

Ph.D. in Information Technology University of Parma

31 AGO 1996 – 17 OTT 2002 Modena, Italia

MasteLaurea degree, summa cum laude, in Information Engineering University of Modena and Reggio Emilia

PROGETTI

1 NOV 2023 – ATTUALE

STEAM Bo.SS - STEAM Boosting Soft Skills

Erasmus+ Project Cooperation partnerships in vocational education and training
Project objectives

1. To develop the soft skills of VET students through STEAM approach activities, delivered together with local companies
2. To build STEAM approach pilot projects in all partner countries that respond to the needs of the labour market
3. To update and align VET trainers' competences to the European level

<http://steamboss.eu/>

2023 – ATTUALE

DISSEM Data-driven IT Services for Sustainable and Efficient Manufacturing

PR-FESR Project

Expected results: 1) New data-driven methodologies for learning machine learning (ML) models, designed for high-dimensional data, unbalanced and/or incorrectly labeled datasets; 2) DISSEM platform prototype capable of instantiating and dynamically managing Big Data analytics services by implementing the MLOps paradigm; 3) Orchestration service prototype for on-device / distributed learning, capable of dynamically redistributing computation for the purposes of learning ML models; 4) Demonstration laboratory of the DISSEM platform, including demonstrators of real-time decision support services modeled on industrial use cases.

2023 – ATTUALE

ESCALATION: sEcurE and SCALable cLoud bAsed opTImizatiON

PR-FESR Project

31 DIC 2013 – ATTUALE

Summer Camp 'Digital Girls'

Project Type: **Educational Project**

Role: **Co-organizer and scientific responsible**

Web site: www.ragazzedigitali.it

Description: Summer camp to attract girls towards computer science disciplines. Dedicated to female students of the high schools and completely free for them to participate, the summer camp lasts 4 weeks between June and July. The girls learn how to program a video game in Python or a robot based on Arduino, working in team and being exposed to female role models to counteract gender stereotypes in the computer science field.

1 DIC 2021 – 31 GEN 2024

STEM for Future

STEM for Future is an Erasmus+ project that aims to develop among young people a greater knowledge and culture of the new possible professional opportunities in the STEM field, through a set of learning opportunities aimed at enhancing their STEM skills, with innovative learning methods.

31 DIC 2019 – 31 DIC 2023

LeTSGEPs: Leading Towards Sustainable Gender Equality Plans

Project Type: **Horizon 2020** - Support and Coordination Action

Role: **Member** of the University of Modena and Reggio Emilia Research Unit, that acts as **coordinator**

Web site: <https://letsgeps.eu/>

Description: The EU-funded LeTSGEPs project intends to connect several research-performing organisations to plan and perform actions that will result in systemic institutional transformation concerning gender prejudices.

31 MAG 2016 – 30 MAG 2019

EQUAL-IST: Gender Equality Plans for Information Sciences and Technology Research Institutions

Project Type: **Horizon 2020** - Support and Coordination Action

Role: **Scientific Responsible** for the University of Modena and Reggio Emilia Research Unit

Web site: <https://equal-ist.eu/>

Description: The EQUAL-IST project (Gender Equality Plans for Information Sciences and Technology Research Institutions) aims at introducing structural changes to enhance **gender equality in Information Sciences and Technology (IST)** research institutions.

30 APR 2015 – 29 NOV 2016

SAMMClouds: Secure and Adaptive Management of Multi-Clouds

Project Type: **FAR 2014** - Academic Funding for Research

Role: Principal Investigator

31 DIC 2009 – 30 DIC 2013

VIRTUOSO: Versatile InfoRmation Toolkit for end-Users oriented Open-Sources exploitation

Project Type: European Union Seventh Framework Programme **FP7**

Role: **Member** of the University of Modena and Reggio Emilia Research Unit

31 DIC 2008 – 30 DIC 2010

AUTOSEC Autonomic Security

Project Type: **National Research Project MIUR PRIN**

Role: **Member** of the University of Modena and Reggio Emilia Research Unit

PROFESSIONAL ACTIVITIES

1 NOV 2021 – ATTUALE

President of Information Engineering Bachelor Degree

3 FEB 2020 – ATTUALE

Delegate for Gender Equality of the Department of Engineering 'Enzo Ferrari', University of Modena and Reggio Emilia

ATTUALE

Associate Editor for International Journals

- International Journal of Cluster Computing
- Journal of Communications Software and Systems (JCOMMS)

31 MAR 2020 – 30 OTT 2021

President of CUG (Comitato Unico di Garanzia) of the University of Modena and Reggio Emilia

Guest Editor for International Journals

- Peer-to-Peer Networking and Applications Journal: Special Issue "Experimental Evaluation of Peer-to-Peer Applications" (2013)
- Algorithms Journal: Special Issue "Algorithms for the Resource Management of Large Scale Infrastructures" (2018)

ATTUALE

Member of the Interdepartmental Research Center on Security and Risk Prevention (CRIS) of the University of Modena and Reggio Emilia

Project proposals evaluator

- POR-FESR - Regional Operational Program of the European Regional Development Fund 2017
- Luxembourg National Research Fund (FNR): Research Programmes CORE, POLLUX and INTER MOBILITY (2012-2015)
- Italian Minister of Education, University and Research (MIUR): "Future in Research 2013" and "Scientific Independence of young Researchers (SIR) 2014"

OTT 2020 – NOV 2020

Country Expert in Gender Equality

Mutual Learning Programme in Gender Equality - Artificial Intelligence and Gender Biases in Recruitment and Selection Processes

Link https://commission.europa.eu/system/files/2020-12/mlp_it_comments_paper_nl_november_2020_en.pdf

TEDX TALK

5 DIC 2019

"L'informatica è un paese per donne?" (Is Computer Science a Country for Women?)

TEDxModenaWomen

Link <https://www.youtube.com/watch?v=IAit3pd-gRU>

COMPETENZE LINGUISTICHE

LINGUA MADRE: italiano

Altre lingue:

inglese

Ascolto C1

Produzione orale C1

Lettura C2

Interazione orale C1

Scrittura C2

Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato

COMPETENZE DIGITALI

Python for statistic | R | Web Technologies | Python Programming Language

PUBBLICAZIONI

2023

● [Placement of IoT Microservices in Fog Computing Systems: A Comparison of Heuristics Canali, C. , Gazzotti, C. , Lancellotti, R. , Schena, F. Algorithms, 2023, 16\(9\), 441](#)

2023

● A Validated Performance Model for Micro-services Placement in Fog Systems Canali, C. , Di Modica, G. , Lancellotti, R. , Rossi, S. , Scotece, D. SN Computer Science, 2023, 4(4), 417

2023

● An Evaluation Tool for Extracurricular Activities to Reduce the Gender gap in Computer Science Canali, C. , Faenza, F. Proceedings of the International Conference on Gender Research, 2023, 2023-April, pp. 65-73

2022

● [Roberto Beraldi, Claudia Canali, Riccardo Lancellotti, Gabriele Proietti Mattia, "On the impact of stale information on distributed online load balancing protocols for edge computing", Computer Networks, Vol. 210, June 2022](#)

2022

● Stefano Pigozzi, Francesco Faenza, Claudia Canali, "Sophon: an Extensible Platform for Collaborative Research", Conference on Practice and Experience in Advanced Research Computing: Revolutionary: Computing, Connections, You (PEARC), Boston, USA, 10-14 July 2022

2021

● [Francesco Faenza, Claudia Canali, Michele Colajanni, Antonella Carbonaro, "The digital girls response to pandemic: Impacts of in presence and online extracurricular activities on girls future academic choices", Education Science, Vol. 11, Nov. 2021](#)

2021

● Francesco Faenza, Claudia Canali, Antonella Carbonaro, "Evaluating different approaches to closing the gender gap at ICT summer camps in Italy", The 4th International Conference on Gender Research, ICGR 2021, Aveiro, Portugal, 21-22 June 2021

2021

Tindara Addabbo, Giovanna Badalassi, Rita Bencivenga, Claudia Canali, "How to select measures for gender equality plans", The 4th International Conference on Gender Research, ICGR 2021, Aveiro, Portugal, 21-22 June 2021

2021

Tindara Addabbo, Giovanna Badalassi, Claudia Canali, "Gender budgeting in academia: A powerful tool for gender equality", The 4th International Conference on Gender Research, ICGR 2021, Aveiro, Portugal, 21-22 June 2021

2021

Francesco Faenza, Claudia Canali, Antonella Carbonaro, "ICT Extra-curricular Activities: The "Digital Girls" Case Study for the Development of Human Capital", Research and Innovation Forum, Rii Forum, Online Event, 7-9 Apr. 2021

2021

Claudia Canali, Riccardo Lancellotti, Stefano Rossi, Impact of theoretical performance models on the design of fog computing infrastructures (slides), The 21th IEEE International Symposium on Network Computing and Applications (NCA 2021), Boston, USA, 23-26 Nov. 2021

2020

Roberto Beraldi, Claudia Canali, Riccardo Lancellotti, Gabriele Proietti Mattia, "Distributed load balancing for heterogeneous fog computing infrastructures in smart cities" , Pervasive and Mobile Computing Journal, Vol. 67

2020

Claudia Canali, Riccardo Lancellotti, "Data Flows Mapping in Fog Computing Infrastructures Using Evolutionary Inspired Heuristic", Communications in Computer and Information Science, Vol. 1218 CCIS, pp.177-198

2020

Claudia Canali, Riccardo Lancellotti, "GASP: Genetic Algorithms for Service Placement in Fog Computing Systems", Algorithms, Vol. 12, No. 10

2020

Roberto Beraldi, Claudia Canali, Riccardo Lancellotti, Gabriele Proietti Mattia, "A random walk based load balancing algorithm for Fog Computing", Proc. of The 5th International Conference on Fog and Mobile Edge Computing (FMEC 2020), Paris, France

2020

Thiago Alves de Queiroz, Claudia Canali, Manuel Iori, Riccardo Lancellotti, "A Location-Allocation model for Fog Computing Infrastructures", Proc. of 10th International Conference on Cloud Computing and Services Science, CLOSER 2020, Prague, Czech Republic

2019

Claudia Canali, Riccardo Lancellotti, "AGATE: Adaptive Gray Area-based TEchnique to Cluster Virtual Machines with Similar Behavior", IEEE Transactions on Cloud Computing, Vol. 7, N. 3, pp. 650-663

2019

Tindara Addabbo, Claudia Canali, Gisella Facchinetti, Tommaso Pirotti, "Measuring Gender Equality in Universities", *Advances in Intelligent Systems and Computing*, pp. 109-121

2019

Claudia Canali, Tindara Addabbo, Vasiliky Moumtzi, "A Best Practice for Attracting Female Students to Enrol in ICT Studies", *Proc. of 2nd International Conference on Gender Research (ICGR 2019)*, Rome, Italy,

2019

Claudia Canali, Maria Sangiuliano, Elena Gorbacheva, "Lessons learned from tailored Gender Equality Plans: classification and analysis of actions implemented within the EQUAL-IST project", *Proc. of 2nd International Conference on Gender Research (ICGR 2019)*, Rome, Italy

2019

Claudia Canali, Riccardo Lancellotti, "A Fog Computing Service Placement for Smart Cities based on Genetic Algorithms", *Proc. of 9th International Conference on Cloud Computing and Services Science, CLOSER 2019*, Heraklion, Greece

2018

Luca Chiaraviglio, Fabio D'Andreagiovanni, Riccardo Lancellotti, Mohammad Shojar, Nicola Blefari Melazzi, Claudia Canali, "An Approach to Balance Maintenance Costs and Electricity Consumption in Cloud Data Centers", *IEEE Transactions on Sustainable Computing*, Vol. 3 No. 4

2018

Claudia Canali, Luca Chiaraviglio, Riccardo Lancellotti, Mohammad Shojar, "Joint Minimization of the Energy Costs from Computing, Data Transmission, and Migrations in Cloud Data Centers", *IEEE Transactions on Green Communications and Networking*, Vol. 2, No. 2, pp. 580-595

2018

Danilo Ardagna, Claudia Canali, Riccardo Lancellotti, "Special Issue on Algorithms for the Resource Management of Large Scale Infrastructures", *Algorithms*, Vol. 11 No. 12

2018

Roberta De Michele, Tommaso Fabbri, Claudia Canali, "Social technologies for the workplace: Metrics proposal for adoption assessment", *Proc. of 4th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS 2018)*, Bologna, Italy

2018

Claudia Canali, Tindara Addabbo, Maria Sangiuliano, "A Methodology for Participatory Gender Audit in ICT/IST Research Institutions", *Proc. of 1st International Conference on Gender Research (ICGR 2018)*, Porto, Portugal

2018

Maria Sangiuliano, Claudia Canali, Vasia Madesi "Negotiating Gender Equality Policies in IST-ICT Research Institutions: Reflections from the Participatory Audit to Design of Gender Equality Plans in the EQUAL-IST Project", Proc. of 1st International Conference on Gender Research (ICGR 2018), Porto, Portugal

2018

Tindara Addabbo, Claudia Canali, Gisella Facchinetti, Alessandro Grandi, Tommaso Pirotti, "Gender Equality in Tertiary Education and Research Institutions: An Evaluation Proposal", Proc. of 1st International Conference on Gender Research (ICGR 2018), Porto, Portugal

2017

Claudia Canali, Riccardo Lancellotti, "Scalable and automatic virtual machines placement based on behavioral similarities", Computing Journal, Springer, Vol. 99, N. 6, pp 575-595

2017

Claudia Canali, Riccardo Lancellotti, "Identifying Communication Patterns between Virtual Machines in Software-Defined Data Centers", Performance Evaluation Review, ACM SIGMETRICS, Vol. 44, N. 4, pp 49-56

2017

Luca Chiaraviglio, Nicola Blefari-Melazzi, Claudia Canali, Francesca Cuomo, Riccardo Lancellotti, Mohammad Shojafar, "A measurement-based analysis of temperature variations introduced by power management on Commodity HardWare", Proc. of 19th International Conference on Transparent Optical Networks (ICTON 2017), Girona, Catalonia Spain

2017

Mohammad Shojafar, Claudia Canali, Riccardo Lancellotti, "A Computation- and Network-Aware Energy Optimization Model for Virtual Machines Allocation", Proc. of 7th International Conference on Cloud Computing and Services Science (CLOSER 2017), Porto, Portugal

2016

Mohammad Shojafar, Claudia Canali, Riccardo Lancellotti, Jemal Abawajy, "Adaptive Computing-plus-Communication Optimization Framework for Multimedia Processing in Cloud Systems", IEEE Transactions on Cloud Computing

2016

Claudia Canali, Riccardo Lancellotti, "A Comparison of Techniques to Detect Similarities in Cloud Virtual Machines", Journal of Grid and Utility Computing, Vol. 7, No. 2

2016

Paola G. Vinueza Naranjo, Mohammad Shojafar, Leticia Vaca-Cardenas, Claudia Canali, Riccardo Lancellotti, Enzo Baccarelli, "Big Data Over SmartGrid - A Fog Computing Perspective", Proc. of 24rd International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2016), Split, Croatia

2016

● Claudia Canali, Riccardo Lancellotti, "A Correlation-based Methodology to Infer Communication Patterns between Cloud Virtual Machines", Proc. of 10th EAI International Conference on Performance Evaluation Methodologies and Tools (Valuetools) - InfQ Workshop, Taormina, Italy,

2015

● Claudia Canali, Riccardo Lancellotti, "Automatic Parameter Tuning for Class-Based Virtual Machine Placement in Cloud Infrastructures", Proc. of 23rd International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2015), Split, Croatia

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".