



PERSONAL INFORMATION **Riccardo Lancellotti** (+39) <https://secloud.ing.unimore.it/people/lancellotti/> [ORCID 0000-0002-9470-8784](https://orcid.org/0000-0002-9470-8784)

Gender M | Date of birth

| Nationality Italian

POSITIONS

- 2019 - Associate professor at University of Modena e Reggio Emilia
- 2005 - 2018 Researcher at University of Modena e Reggio Emilia
- 2004 Post-doc grant at University of Modena e Reggio Emilia
- 2003 Visiting researcher for 6 months at IBM T.J. Watson Research Center, Yorktown Heights, NY, USA, under the supervision of Dr. Philip Yu

STUDIES

- 2001-03 Ph.D (XVI ciclo) Automation and Information Engineering, University of Rome "Tor Vergata"
- 1995-2000 Laurea degree in Computer Engineering at University of Modena e Reggio Emilia

TECHNICAL AND MANAGEMENT EXPERIENCE

- Unix/Linux systems
 - Use of Unix/Linux as the main development and research platform since 1996
 - Development of kernel modules
 - Proposal of patches included in Open source projects such as *Evolution* and *Gedit*
- Networking protocols
 - Teacher in computer networks courses since 2004
 - Research in the fields of computer networking and distributed systems since 2002
- Cyber security
 - Participant to 5 international projects in the field of cyber security
- Project management
 - Principal investigator/Research unit coordinator in 10 projects

RESEARCH ACTIVITY

- Current research topics
 - Fog/Edge Computing
 - Cloud e Multi-Cloud systems
 - Software-Defined Data Center
 - Cyber security
- Past research topics
 - Performance evaluation of multi-tier Web systems
 - Social Network analysis
 - Ubiquitous Web/Ubiquitous computing
 - Peer-to-Peer systems
 - Cooperative Web Caching
 - Content Delivery Networks

RESEARCH PROJECTS

- 2023 "Headlight" with Doxee - [Research unit coordinator](#)
- 2020 "Miglioramento di processo produttivo ceramico mediante controllo di qualità e ottimizzazione delle lavorazioni" with Polis ceramics - [Principal investigator](#)
- 2020 "Digital Experience Platform" with Doxee - [Research unit coordinator](#)
- 2018 SECREDAS: "Product Security for Cross Domain Reliable Dependable Automated Systems". EU grant H2020-EU.2.1.1.7. - ECSEL no. 783119

- 2018 "Dimensionamento di una CDN per il delivery di contenuti multimediali" with 47Deck (Reggio Emilia) – [Principal investigator](#)
- 2016 - 2019 EQUAL-IST: "Gender Equality Plans for Information Sciences and Technology Research Institutions". EU grant agreement H2020-GERI-2015-1 no. 710549
- 2010 - 2012 SterilMed: "New production process for medical bags based on RF-sterilization and ICT-based plant". EU grant EUROSTARS-EUREKA programme – [Research unit coordinator](#)
- 2010 - 2012 VIRTUOSO: "Versatile Information Toolkit for end-users oriented open-sources Exploitation". EU, Grant agreement FP7-SEC-2009 no. 242352
- 2010 - 2011 ScalaServ: "Scalable and robust architectures for supporting advanced network-based services". Grant "Italy-Spain Integrated Actions"
- 2010 - 2011 THIS: "Transport Hub Intelligent video System". EU grant agreement no. JLS/2009/CIPS/AG/C1-028 in the framework of the program "Prevention, Preparedness and Consequence Management of Terrorism and other Security related Risks"
- 2010 - 2011 DOTS-LCCI: "Dependable Off-The-Shelf based middleware systems for Large-scale Complex Critical Infrastructures". Grant MIUR (PRIN programme)
- 2009 - 2011 Tixoform. Grant Industria 2015
- 2009 - 2011 ITaste. Grant Industria 2015
- 2009 - 2011 COMIFIN: "Communication Middleware for Monitoring Financial Critical Infrastructures". EU grant agreement FP7-ICT-SEC-2008 no. 225407
- 2007 "Training of crisis and security managers" EU grant FP7 ICT-SEC-2007-1.0-02
- 2007 - 2008 "Sviluppo di un software di raccolta ed elaborazione dati per centraline di controllo atmosferico", with MTX (Modena)
- 2006 - 2007 "Sviluppo di un backend open source per il software gestionale MetoPack basato su BerkeleyDB e RPC", with Metodo (Modena)
- 2006 "Sviluppo e ottimizzazione di un sistemi GNU/Linux per controllare macchine da imballaggio", with Awax (Vignola)
- 2005 - 2006 "Sviluppo dell'infrastruttura middleware per la gestione di processi documentali", with eBilling di Modena, Bando Ricerca Industriale 2005/06;
- 2002 - 2005 "Valutazione delle prestazioni dei sistemi complessi: Tecniche, Metodologie e Strumenti" (PERF), FIRB programme
- 2002 - 2005 "Middleware per servizi evoluti su sistemi distribuiti wired-wireless di grandi dimensioni" (WEB-MINDS), FIRB programme
- 2003 "Advanced architectures for high performance Web systems and services", IBM Research, T.J. Watson Research Center, NY, USA, 2003
- 2001-2003 "Sistemi ad alte prestazioni ed infrastrutture di rete per l'accessibilità al Web", MIUR COFIN

TEACHING ACTIVITY

- 2022/23 - Master course: Sistemi e Applicazioni Cloud
- 2018/19 - 2021/22 Master course: Mobile and Distributed Applications
- 2018/19 - 2019/20 Master course: Web and Mobile Applications
- 2013/14 - 2017/18 Master course: Distributed Web Applications
- 2008/09 - 2012/13 Master course module: Network systems and Applications
- 2010/11 - Bachelor course: Computer networks and lab
- 2008/09 - 2009/10 Bachelor course: Computer networks
- 2004/05 - 2009/10 Bachelor course: Computer networks laboratory
- 2005/06 - 2007/08 Bachelor course: Fundamentals of computer science
- 2005 Ph.D. course: Performance Evaluation and Modeling (Università Carlos III di Madrid)

SCIENTIFIC PUBLICATIONS

Journals 27 papers in international journals

- Danilo Ardagna, Michele Ciavotta, Riccardo Lancellotti, Michele Guerriero, “A Hierarchical Receding Horizon Algorithm for QoS-driven control of Multi-IaaS Applications”, *IEEE Transactions on Cloud Computing*, Early access, 2018
- Claudia Canali, Riccardo Lancellotti, "AGATE: Adaptive Gray Area-based TEchnique to Cluster Virtual Machines with Similar Behavior", *IEEE Transactions on Cloud Computing*, Vol. 7, Issue 3, 2019
- Luca Chiaraviglio, Fabio D’Andreagiovanni, Riccardo Lancellotti, Mohammad Shojafar, 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, Issue 4, 2018
- Claudia Canali, Luca Chiaraviglio, Riccardo Lancellotti, Mohammad Shojafar, "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, Issue 2, 2018
- 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*, Early access, 2016

Book chapters 6 book chapters

Conference papers 48 papers in international conferences, 1 paper award winner

- Claudia Canali, Riccardo Lancellotti, “An Adaptive Technique to Model Virtual Machine Behavior for Scalable Cloud Monitoring”, *Proc. of 19th IEEE Symposium on Computers and communications (ISCC 2014)*, Madeira, Portugal, June 2014, [Best Paper Award](#)

LANGAUGES

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)