

## PERSONAL INFORMATION



## Riccardo Lancellotti

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Gender M | Date of birth 11 Feb. 1976 | 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

- 2024 “CDMH” with Doxee – [Research unit coordinator](#)
- 2024 “iX studio” with Doxee – [Research unit coordinator](#)
- 2023 “DISSEM: DISSEM - Data-driven IT Services for Sustainable and Efficient Manufacturing” PR-FESR Regione Emilia Romagna – [Research unit coordinator](#)
- 2023 “ESCALATION: sEecure and SCALable cLoud bAsed opTImizatiON” PR-FESR Regione Emilia Romagna – [Principal investigator](#)
- 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

- 2024/25 – Master course: Operating System Design (9 CFU)
- 2022/23 – Master course: Cloud Systems and Applications (9 CFU)
- 2018/19 – 2021/22 Master course: Mobile and Distributed Applications (9 CFU)
- 2018/19 – 2019/20 Master course: Web and Mobile Applications (9 CFU)
- 2013/14 – 2017/18 Master course: Distributed Web Applications (9 CFU)
- 2008/09 – 2012/13 Master course module: Network systems and Applications (3 CFU)
- 2023/24 – 2023/24 Bachelor course: Computer networks (9 CFU)
- 2023/24 – 2023/24 Bachelor course: Operating Systems (9 CFU)
- 2010/11 – 2023/24 Bachelor course: Computer networks and lab (9 CFU)

- 2008/09 – 2009/10 Bachelor course: Computer networks (6 CFU)  
 2004/05 – 2009/10 Bachelor course: Computer networks laboratory (3 CFU)  
 2005/06 – 2007/08 Bachelor course: Fundamentals of computer science (6 CFU)  
 2005 Ph.D. course: Performance Evaluation and Modeling (Università Carlos III di Madrid)

## SCIENTIFIC PUBLICATIONS: JOURNALS

- Journal papers: 31 papers in international journals
- 2025 – Sedghani, H.; Passacantando, M.; Lancellotti, R.; Zolfy Lighvan, M.; Ardagna, D., “A Robust Game Approach for On Spot Price Cloud Markets in Microservice-Based Applications” IEEE ACCESS
- 2024 – Cavecchia, Mirko; Alves De Queiroz, Thiago; Iori, Manuel; Lancellotti, Riccardo; Zucchi, Giorgio, “An Optimization-Based Decision Support System for Multi-trip Vehicle Routing Problems” SN COMPUTER SCIENCE
- 2023 – Canali, C.; Gazzotti, C.; Lancellotti, R.; Schena, F., “Placement of IoT Microservices in Fog Computing Systems: A Comparison of Heuristics” ALGORITHMS  
 – Canali, C.; Di Modica, G.; Lancellotti, R.; Rossi, S.; Scotece, D., “A Validated Performance Model for Micro-services Placement in Fog Systems” SN COMPUTER SCIENCE
- 2022 – Beraldi, R.; Canali, C.; Lancellotti, R.; Mattia, G. P., “On the impact of stale information on distributed online load balancing protocols for edge computing” COMPUTER NETWORKS
- 2021 – Ardagna, Danilo; Ciavotta, Michele; Lancellotti, Riccardo; Guerriero, Michele, “A Hierarchical Receding Horizon Algorithm for QoS-driven control of Multi-IaaS Applications” IEEE TRANSACTIONS ON CLOUD COMPUTING
- 2020 – Beraldi, R.; Canali, C.; Lancellotti, R.; Mattia, G. P., “Distributed load balancing for heterogeneous fog computing infrastructures in smart cities” PERVASIVE AND MOBILE COMPUTING  
 – Shojafar, Mohammad; Canali, Claudia; Lancellotti, Riccardo; Abawajy, Jemal, “Adaptive Computing-plus-Communication Optimization Framework for Multimedia Processing in Cloud Systems” IEEE TRANSACTIONS ON CLOUD COMPUTING
- 2019 – Canali, C.; Lancellotti, R., “GASP: Genetic algorithms for service placement in fog computing systems” ALGORITHMS  
 – Canali, Claudia; Lancellotti, Riccardo, “AGATE: Adaptive Gray Area-based TEchnique to Cluster Virtual Machines with Similar Behavior” IEEE TRANSACTIONS ON CLOUD COMPUTING
- 2018 – Canali, Claudia; Corbelli, Andrea; Lancellotti, Riccardo, “On private CDNs with off-sourced network infrastructures: A model and a case study” JOURNAL OF COMMUNICATION SOFTWARE AND SYSTEMS  
 – Ardagna, Danilo; Canali, Claudia; Lancellotti, Riccardo, “Special issue on algorithms for the resource management of large scale infrastructures” ALGORITHMS  
 – Chiaraviglio, Luca; D’Andreagiovanni, Fabio; Lancellotti, Riccardo; Shojafar, Mohammad; Blefari Melazzi, Nicola; Canali, Claudia, “An Approach to Balance Maintenance Costs and Electricity Consumption in Cloud Data Centers” IEEE TRANSACTIONS ON SUSTAINABLE COMPUTING  
 – Canali, Claudia; Chiaraviglio, Luca; Lancellotti, Riccardo; Shojafar, Mohammad, “Joint Minimization of the Energy Costs from Computing, Data Transmission, and Migrations in Cloud Data Centers” IEEE TRANSACTIONS ON GREEN COMMUNICATIONS AND NETWORKING
- 2017 – Canali, Claudia; Lancellotti, Riccardo, “Scalable and automatic virtual machines placement based on behavioral similarities” COMPUTING
- 2016 – Canali, Claudia; Lancellotti, Riccardo, “A comparison of techniques to detect similarities in cloud virtual machines” INTERNATIONAL JOURNAL OF GRID AND UTILITY COMPUTING
- 2015 – Canali, Claudia; Lancellotti, Riccardo, “Parameter tuning for scalable multi-resource server consolidation in cloud systems” JOURNAL OF COMMUNICATION SOFTWARE AND SYSTEMS

- 2014 – Canali, Claudia; Lancellotti, Riccardo, “Exploiting ensemble techniques for automatic virtual machine clustering in cloud systems” AUTOMATED SOFTWARE ENGINEERING  
 – Lancellotti, Riccardo; Canali, Claudia, “Detecting Similarities in Virtual Machine Behavior for Cloud Monitoring using Smoothed Histograms” JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING  
 – Canali, Claudia; Lancellotti, Riccardo, “Improving scalability of cloud monitoring through PCA-based Clustering of Virtual Machines” JOURNAL OF COMPUTER SCIENCE AND TECHNOLOGY
- 2013 – Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Algorithms for Web Service Selection with Static and Dynamic Requirements” SERVICE ORIENTED COMPUTING AND APPLICATIONS
- 2012 – Canali, Claudia; Lancellotti, Riccardo, “Automated Clustering of Virtual Machines based on Correlation of Resource Usage” JOURNAL OF COMMUNICATION SOFTWARE AND SYSTEMS  
 – Canali, Claudia; Lancellotti, Riccardo, “A quantitative methodology based on component analysis to identify key users in social networks” INTERNATIONAL JOURNAL OF SOCIAL NETWORK MINING
- 2010 – Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Resource Management Strategies for the Mobile Web” MOBILE NETWORKS AND APPLICATIONS  
 – Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “A two-level distributed architecture for the support of content adaptation and delivery services” CLUSTER COMPUTING
- 2009 – Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Performance Evolution of Mobile Web-Based Services” IEEE INTERNET COMPUTING
- 2007 – Poggi, M. E.; Casalicchio, E.; Lancellotti, Riccardo, “A Simulation Framework for Cluster-based Web services” INTERNATIONAL JOURNAL OF SIMULATION: SYSTEMS, SCIENCE & TECHNOLOGY
- 2006 – Canali, Claudia; Cardellini, V.; Lancellotti, Riccardo, “Content Adaptation Architectures Based on Squid Proxy Server” WORLD WIDE WEB JOURNAL
- 2005 – Lancellotti, Riccardo; Mazzoni, Francesca; Colajanni, Michele, “Hybrid cooperative schemes for scalable and stable performance of Web content delivery” COMPUTER NETWORKS
- 2004 – Andreolini, Mauro; Colajanni, Michele; Lancellotti, Riccardo; Mazzoni, F., “Fine grain performance evaluation of e-commerce sites” PERFORMANCE EVALUATION REVIEW  
 – Colajanni, Michele; Lancellotti, Riccardo, “System architectures for Web content adaptation services” IEEE DISTRIBUTED SYSTEMS ONLINE

#### SCIENTIFIC PUBLICATIONS: BOOKS

Book chapters: 9 book chapters

- 2022 – de Queiroz, Thiago Alves; Canali, Claudia; Iori, Manuel; Lancellotti, Riccardo, “An Optimization View to the Design of Edge Computing Infrastructures for IoT Applications”
- 2020 – Bicocchi, N.; Canali, C.; Lancellotti, R., “Smart cities in the fog: Clearing the vision of innovative sensing applications”  
 – Canali, C.; Lancellotti, R., “Data Flows Mapping in Fog Computing Infrastructures Using Evolutionary Inspired Heuristic”
- 2019 – Bicocchi, N.; Canali, C.; Lancellotti, R., “A Technique to Identify Data Exchange Between Cloud Virtual Machines”
- 2011 – Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Technological solutions to support Mobile Web 2.0 services”
- 2008 – Canali, Claudia; Cardellini, V.; Colajanni, Michele; Lancellotti, Riccardo, “Content Delivery and Management”
- 2006 – Andreolini, Mauro; Colajanni, Michele; Lancellotti, Riccardo, “Web System Reliability and Performance”
- 2005 – Andreolini, Mauro; Colajanni, Michele; Lancellotti, Riccardo, “Web system reliability and performance: design and testing methodologies”  
 – Colajanni, Michele; Lancellotti, Riccardo; Yu, P. S., “Distributed architectures for Web content adaptation and delivery”

#### SCIENTIFIC PUBLICATIONS: CONFERENCES

Conference papers: 73 papers in international conferences, 1 paper award winner

- 2025 – Agostini, D.; De Queiroz, T. A.; Iori, M.; Lancellotti, R., “A Comparison of Static and Dynamic Micro-Service Placement Strategies for Edge Computing” 2025 International Conference on Software, Telecommunications and Computer Networks (SoftCOM), (Split, Croatia, 18-20 September 2025)
- Cavecchia, M.; de Queiroz, T. A.; Lancellotti, R.; Zucchi, G.; Iori, M., “A Real-World Multi-Depot, Multi-Period, and Multi-Trip Vehicle Routing Problem with Time Windows” 14th International Conference on Operations Research and Enterprise Systems (ICORES 2025), (Porto, 23-25/02/2025) **Best Paper Award**
- 2024 – Canali, C.; Lancellotti, R.; Mescoli, R., “An analysis of Genetic Algorithms to support the management of edge computing infrastructures” 22nd International Symposium on Network Computing and Applications, NCA 2024, (Bertinoro (FC) - Italy, October 24-26, 2024)
- Panini, G.; Faenza, F.; Lancellotti, R.; Canali, C., “ConSUMO: Simulation-based tool to evaluate mobile traffic impact on cell towers load” International Conference on Software, Telecommunications and Computer Networks (SOFTCOM 2024), (Split, Croatia, 26-28 September, 2024)
- Cavecchia, Mirko; Alves De Queiroz, Thiago; Iori, Manuel; Lancellotti, Riccardo; Zucchi, Giorgio, “A Multi-Trip Vehicle Routing Problem with Time Windows for Pharmaceutical Distribution” International Symposium on Combinatorial Optimization (ISCO 2024), (La Laguna, Tenerife, Canary Islands, Spain, 22-24 May 2024)
- 2023 – Filippini, F.; Cavadini, R.; Ardagna, D.; Lancellotti, R.; Russo Russo, G.; Cardellini, V.; Lo Presti, F., “FIGARO: reinFORCEment learnInG mANagement acROSS the computing cONTinuum” 16th IEEE/ACM International Conference on Utility and Cloud Computing, UCC 2023, (Taormina (Messina) Italy, December 4 - 7, 2023)
- Cavecchia, Mirko; Alves De Queiroz, Thiago; Iori, Manuel; Lancellotti, Riccardo; Zucchi, Giorgio, “A Decision Support System for Multi-Trip Vehicle Routing Problems” 25th International Conference on Enterprise Information Systems, ICEIS 2023, (Prague, Czech Republic, 24 - 26 April, 2023)
- 2022 – Canali, C.; Lancellotti, R.; Pedroni, P., “Microservice Performance in Container- and Function-as-a-Service Architectures” 30th International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2022, (Split, Croatia, 2022)
- Lancellotti, R.; Rossi, S.; Miano, G. C.; Miselli, F., “Performance Comparison of Technological Solutions for Spark Applications in AWS” 30th International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2022, (Split, Croatia, 2022)
- Canali, C.; Di Modica, G.; Lancellotti, R.; Scotece, D., “Optimal Placement of Micro-services Chains in a Fog Infrastructure” 12th International Conference on Cloud Computing and Services Science, CLOSER 2022, (online streaming, APR 27-29, 2022)
- 2021 – Canali, C.; Lancellotti, R.; Rossi, S., “Impact of theoretical performance models on the design of fog computing infrastructures” 20th IEEE International Symposium on Network Computing and Applications, NCA 2021, (usa, 2021)
- Alves De Queiroz, T.; Canali, C.; Iori, M.; Lancellotti, R., “A Variable Neighborhood Heuristic for Facility Locations in Fog Computing” 8th International Conference on Variable Neighborhood Search, ICVNS 2021, (are, 2021)
- 2020 – Canali, C.; Lancellotti, R.; Mione, S., “Collaboration Strategies for Fog Computing under Heterogeneous Network-bound Scenarios” 19th IEEE International Symposium on Network Computing and Applications, NCA 2020, (usa, 2020)
- Beraldi, R.; Canali, C.; Lancellotti, R.; Mattia, G. P., “Randomized Load Balancing under Loosely Correlated State Information in Fog Computing” 23rd ACM International Conference on Modelling, Analysis, and Simulation of Wireless and Mobile Systems, MSWiM 2020, (Alicante, SPAIN, NOV 16-20, 2020)
- Beraldi, R.; Canali, C.; Lancellotti, R.; Mattia, G. P., “A Random Walk based Load Balancing Algorithm for Fog Computing” 5th International Conference on Fog and Mobile Edge Computing, FMEC 2020, (Paris, France, 2020)
- De Queiroz, T. A.; Canali, C.; Iori, M.; Lancellotti, R., “A Location-allocation model for fog computing infrastructures” 10th International Conference on Cloud Computing and Services Science, CLOSER 2020, (Online event due to COVID pandemic, 7-9 may 2020)

- 2019 – Stefanini, M.; Lancellotti, R.; Baraldi, L.; Calderara, S., “A Deep-learning-based approach to VM behavior Identification in Cloud Systems” 9th International Conference on Cloud Computing and Services Science (CLOSER 2019), (Heraklion, Greece, May, 2019)
- Canali, C.; Lancellotti, R., “A fog computing service placement for smart cities based on genetic algorithms” 9th International Conference on Cloud Computing and Services Science, CLOSER 2019, (grc, 2019)
- Canali, C.; Lancellotti, R., “PAFFI: Performance Analysis Framework for Fog Infrastructures in realistic scenarios” 4th International Conference on Computing, Communications and Security, ICCCS 2019, (ita, 2019)
- 2018 – Canali, Claudia; Corbelli, Andrea; Lancellotti, Riccardo, “Designing a private CDN with an off-sourced network infrastructure: model and case study” 26th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2018), (Split - Supetar, Croatia, Sept, 13-15)
- Canali, Claudia; Lancellotti, Riccardo; Shojafar, Mohammad, “An Optimization Model to Reduce Energy Consumption in Software-Defined Data Centers” , ( , )
- 2017 – Chiaraviglio, Luca; Blefari-Melazzi, Nicola; Canali, Claudia; Cuomo, Francesca; Lancellotti, Riccardo; Shojafar, Mohammad, “A measurement-based analysis of temperature variations introduced by power management on Commodity HardWare” 19th International Conference on Transparent Optical Networks, ICTON 2017, (esp, 2017)
- Canali, Claudia; Lancellotti, Riccardo; Shojafar, Mohammad, “A Computation- and Network-Aware Energy Optimization Model for Virtual Machines Allocation” CLOSER 2017 : 7th International Conference on Cloud Computing and Services Science, (Porto (Portugal), Apr 24, 2017 - Apr 26, 2017)
- Canali, Claudia; Lancellotti, Riccardo, “Identifying Communication Patterns between Virtual Machines in Software-Defined Data Centers” , ( , )
- Canali, Claudia; Lancellotti, Riccardo, “A Correlation-based Methodology to Infer Communication Patterns between Cloud Virtual Machines” 10th EAI International Conference on Performance Evaluation Methodologies and Tools, ValueTools 2016, (ita, OCTOBER 25–28, 2016)
- 2016 – Shojafar, Mohammad; Canali, Claudia; Lancellotti, Riccardo; Baccarelli, Enzo, “Minimizing computing-plus-communication energy consumptions in virtualized networked data centers” 2016 IEEE Symposium on Computers and Communication, ISCC 2016, (Messina, 27 June 2016 through 1 July 2016)
- Shojafar, Mohammad; Canali, Claudia; Lancellotti, Riccardo; Abolfazli, Saeid, “An energy-aware scheduling algorithm in DVFS-Enabled Networked Data Centers” 6th International Conference on Cloud Computing and Services Science, CLOSER 2016, (Rome Italy, April 23-25, 2016)
- 2015 – Andreolini, M.; Pietri, M.; Tosi, S.; Lancellotti, R., “A scalable monitor for large systems” International Conference in Cloud Computing and Services Sciences, CLOSER 2014, (esp, 2014)
- Canali, Claudia; Lancellotti, Riccardo, “Automatic parameter tuning for Class-Based Virtual Machine Placement in cloud infrastructures” 23rd International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2015, (Split - Bol (Island of Brae), Croatia, September 16 - 18, 2015)
- Canali, Claudia; Lancellotti, Riccardo, “Exploiting Classes of Virtual Machines for Scalable IaaS Cloud Management” IEEE 4th Symposium on Network Cloud Computing and Applications, (Garching, Munich, 11-12 June 2015)
- Canali, Claudia; Lancellotti, Riccardo, “A Class-based Virtual Machine Placement Technique for a Greener Cloud” 4th International Conference on Green It Solutions (ICGREEN 2015), (Milano, 6 July 2015)
- 2014 – Ardagna, Danilo; Ciavotta, Michele; Lancellotti, Riccardo, “A Receding Horizon Approach for the Runtime Management of IaaS Cloud Systems” 16th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, SYNASC 2014, (Timisoara (Romania), 22-25 September 2014)
- Canali, Claudia; Lancellotti, Riccardo, “Balancing Accuracy and Execution Time for Similar Virtual Machines Identification in IaaS Cloud” 23rd IEEE International WETICE Conference, WETICE 2014, (Parma, Italy, June 2014)
- Canali, Claudia; Lancellotti, Riccardo, “An Adaptive Technique to Model Virtual Machine Behavior for Scalable Cloud Monitoring” 19th IEEE Symposium on Computers and Communications, ISCC 2014, (Madeira, Portugal, June 2014) [Best Paper Award](#)

- 2013 – Canali, Claudia; Lancellotti, Riccardo, “Automatic virtual machine clustering based on bhattacharyya distance for multi-cloud systems” 2013 International Workshop on Multi-Cloud Applications and Federated Clouds, MultiCloud 2013, (Prague, cze, April 2013)
- 2012 – Canali, Claudia; Lancellotti, Riccardo, “Automated clustering of VMs for scalable cloud monitoring and management” 2012 20th International Conference on Software, Telecommunications and Computer Networks, SoftCOM 2012, (Spalato, Croazia, 11-13 Settembre 2012)
- 2011 – Andreolini, Mauro; Colajanni, Michele; Lancellotti, Riccardo, “Assessing the overhead and scalability of system monitors for large data centers” 1st International Workshop on Cloud Computing Platforms, CloudCP 2011, (Salzburg, aut, 10/04/2011)
- Lancellotti, Riccardo; Andreolini, Mauro; Canali, Claudia; Colajanni, Michele, “Dynamic request management algorithms for Web-based services in cloud computing” 35th Annual IEEE International Computer Software and Applications Conference, COMPSAC 2011, (Munich, deu, July 2011)
- Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Data Acquisition in Social Networks: Issues and Proposals” Services and Open Source - SOS'2011 - co-located with EGC 2011, (Brest, FR, 25/1/2011)
- 2010 – Canali, Claudia; Casolari, Sara; Lancellotti, Riccardo, “A quantitative methodology to identify relevant users in social networks” 2010 IEEE International Workshop on Business Applications of Social Network Analysis, BASNA 2010, (Bangalore, ind, 15-17/12/2010)
- Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Adaptive algorithms for efficient content management in social network services” 10th IEEE International Conference on Computer and Information Technology, CIT-2010, 7th IEEE International Conference on Embedded Software and Systems, ICESS-2010, 10th IEEE Int. Conf. Scalable Computing and Communications, ScalCom-2010, (Bradford, gbr, 29 June - 1 July 2010)
- Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Characteristics and evolution of content popularity and user relations in social networks” 15th IEEE Symposium on Computers and Communications, ISCC 2010, (Riccione, ita, June 2010)
- 2009 – Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Hot set identification for social network applications” 2009 33rd Annual IEEE International Computer Software and Applications Conference, COMPSAC 2009, (Seattle, WA, usa, July 20-July 24 2009)
- Andreolini, Mauro; Lancellotti, Riccardo, “A flexible and robust lookup algorithm for P2P systems” 23rd IEEE International Parallel and Distributed Processing Symposium, IPDPS 2009, (Rome, ita, May 2009)
- 2008 – Canali, C.; Garcia, J. D.; Lancellotti, R., “Impact of social networking services on the performance and scalability of web server infrastructures” 7th IEEE International Symposium on Networking Computing and Applications, NCA 2008, (Cambridge, MA, usa, 2008)
- Andreolini, Mauro; Colajanni, Michele; Lancellotti, Riccardo, “Impact of technology trends on the performance of current and future Web-based systems” Next Generation Web Services Practices, 2005. NWeSP 2005. International Conference on, (seul, 2008)
- Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Resource management strategies for Mobile Web-based services” 4th IEEE International Conference on Wireless and Mobile Computing, Networking and Communication, WiMob 2008, (Avignon, fra, October 2008)
- Canali, Claudia; Lancellotti, Riccardo; Sanchez, J., “Impact of Social Networking Services on Performance and Scalability of Web Server Infrastructures” 7th IEEE International Symposium on Network Computing and Applications (NCA'08), (Cambridge, MA, July 2008)
- 2007 – Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo; Yu, P. S., “A distributed infrastructure supporting personalized services for the Mobile Web” 3rd IEEE International Conference on Wireless and Mobile Computing, Networking and Comm. (WIMOB 2007), (White Plains, NY, USA, October 8-10, 2007)
- Andreolini, Mauro; Canali, Claudia; Lancellotti, Riccardo, “Impact of request dispatching granularity in geographically distributed Web systems” 6th IEEE International Symposium on Network Computing and Applications, NCA 2007, (Cambridge, MA, usa, July 2007)

- 2006 – Canali, C.; Lancellotti, R., “A distributed architecture to support infomobility services” 2nd International Workshop on Advanced Architectures and Algorithms for Internet Delivery and Applications, (Pisa, ita, 2006)
- Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Distributed architectures for high performance and privacy-aware content generation and delivery” 2nd International Conference on Automated Production of Cross Media Content for Multi-Channel Distribution, AXMEDIS 2006, (Leeds, gbr, December 2006)
- Canali, Claudia; Lancellotti, Riccardo, “A distributed architecture to support infomobility services” Int’l Workshop on Advanced Architectures and Algorithms for Internet Delivery and Apps (AAA-IDEA), (Pisa, Italy, October 2006)
- Canali, Claudia; Colajanni, Michele; Lancellotti, Riccardo, “Distribution of adaptation services for Ubiquitous Web access driven by user profile” 11th IEEE Symposium on Computers and Communications, ISCC 2006, (Cagliari, Italy, June 2006)
- Colajanni, Michele; Lancellotti, Riccardo; Yu, P. S., “Scalable architectures and services for ubiquitous Web access” World Wide Web 2006, (Edinburgh, Scotland, May 2006)
- 2005 – Andreolini, Mauro; Colajanni, Michele; Lancellotti, Riccardo, “Impact of memory technology trends on performance of Web systems” International Conference on Next Generation Web Services Practices, NWeSP 2005, (Seoul, kor, 2005-August)
- Canali, Claudia; Cardellini, V; Colajanni, Michele; Lancellotti, Riccardo; Yu, P. S., “A Two-level Distributed Architecture for Web Content Adaptation and Delivery” 5th Symposium on Applications and the Internet, SAINT’2005, (Trento, ita, 2005)
- Canali, Claudia; Casolari, Sara; Lancellotti, Riccardo, “Architectures for scalable and flexible Web personalization services” 1st International Workshop on Advanced Architectures and Algorithms for Internet Delivery and Applications, AAA-IDEA 2005, (Orlando, FL, usa, Giugno 2005)
- Canali, Claudia; Cardellini, V; Colajanni, Michele; Lancellotti, Riccardo, “Performance comparison of distributed architectures for content adaptation and delivery of Web resources” 25th IEEE International Conference on Distributed Computing Systems Workshops, ICDCS 2005, (Columbus, OH, usa, Giugno 2005)
- Canali, Claudia; Casolari, Sara; Lancellotti, Riccardo, “Distributed Systems to Support Efficient Adaptation for Ubiquitous Web” 1st International Conference on High Performance Computing and Communications, HPCC 2005, (Sorrento, ita, 2005)
- Andreolini, Mauro; Colajanni, Michele; Lancellotti, Riccardo, “Impact of technology trends on performance of Web-based services” International Conference on Next Generation Web Services Practices, (Seoul, 23-27 agosto 2005)
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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](https://www.europecouncil.europa.eu/en/common-european-framework-reference-languages/)