

CURRICULUM VITAE

RICCARDO LANCELLOTTI

INDIRIZZO (ADDRESS)

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Ultimo aggiornamento (Last Update): Jan. 2022

DATI ANAGRAFICI (BIO SKETCH)

Riccardo Lancellotti, nato a Modena l'11 febbraio 1976, è Professore Associato nel settore ING-INF/05 presso l'Università di Modena e Reggio Emilia dal 1 dicembre 2018. Riccardo Lancellotti afferisce al Dipartimento di Ingegneria “Enzo Ferrari” dalla sua istituzione.

Riccardo Lancellotti, born in Modena February, 11 1976, is an associate professor in the field of computer engineering at the University of Modena and Reggio Emilia since December, 1 2019. Riccardo Lancellotti is a member of the Department of Engineering “Enzo Ferrari”.

PRINCIPALI RISULTATI (CV OVERVIEW)

RICERCA (RESEARCH)

- 27 articoli su riviste internazionali (5 di esse su IEEE Transactions) – 27 papers on international journals (5 published on IEEE Transaction)
- 8 capitoli di monografie – 8 book chapters
- 54 articoli in conferenze internazionali – 54 papers published in international conference proceedings
- 1 Best Paper Award (ISCC 2014)
- 1 Tutorial presentato in top conference (WWW2006) – 1 tutorial in a top conference (WWW2006)
- Guest Editor in special issue di rivista internazionale – Guest editor for an issue of an international journal
- Associate editor in una rivista internazionale – Associate editor in an international journal
- Membro del comitato scientifico in 13 conferenze internazionali – Member of the program committee in 13 international conferences
- Attività di revisione in numerose riviste internazionali e in 4 bandi per progetti di ricerca nazionali – Reviewer in several international journals and in 4 national research grant
- Partecipazione a più di 10 progetti di ricerca con bando competitivo (2 con posizione di responsabile scientifico, e 1 progetto individuale) – Participant in more than 10 research projects (2 as principal investigator, 1 individual project)
- 6 mesi come visiting researcher presso centro di ricerca IBM T.J. Watson, New York – 6 months as visiting researcher at IBM T.J. Watson, New York research center
- Collaborazioni con università italiane (PoliMI, Roma “Tor Vergata”, Roma “La Sapienza”), università straniere (Madrid Carlos III) e centri di ricerca

internazionali (IBM T.J. Watson) da cui sono scaturite pubblicazioni internazionali – Collaborations with Italian, European and international universities/research centers

DIDATTICA (TEACHING)

- Attività didattica continuativa dal 2005 presso UniMoRE su tematiche inerenti reti di calcolatori, servizi Web e sistemi Cloud – Teaching activity since 2005 at UniMoRE on topics concerning computer networks, Web systems and Cloud computing
- Membro del collegio docenti di scuole di dottorato in UniMoRE dal 2005 – Member of PhD school staff in UniMoRE since 2005
- Attività di formazione presso altri atenei con 1 corso in scuola di dottorato e 8 seminari presso altri atenei – Teaching activity in other universities including 1 PhD course and 8 seminars

TERZA MISSIONE (INDUSTRIAL PROJECTS)

- 7 Progetti di ricerca industriale di cui 1 con posizione di responsabile di progetto – 7 industrial research projects, 1 as Principal Investigator
- 6 tra corsi, master e short master in enti formativi al di fuori dell'ambito universitario – 5 courses, masters and short masters outside university
- 6 tra panel e seminari – 6 panels and seminars
- Organizzazione del Linux Day presso UniMoRE dal 2004 a oggi (14 edizioni). La manifestazione vede la presenza di più di 300 partecipanti a ogni edizione – Organizer of Linux Day in Modena since 2004

POSIZIONI PRECEDENTI (PAST POSITIONS)

2005-2018 Ricercatore presso l'Università di Modena e Reggio Emilia –
Researcher at the University of Modena and Reggio Emilia

- 2004 Assegnista di ricerca presso l'Università di Modena e Reggio Emilia – Research grant at University of Modena and Reggio Emilia
- 2003 Visiting researcher per sei mesi presso l'IBM T.J. Watson Research Center, Yorktown Heights, NY, USA, ospite del Dr. Philip Yu – Visiting researcher for six months at the IBM T.J. Watson Research Center, Yorktown Heights, NY, USA working with Dr. Philip Yu
- 2001-03 Dottorato di ricerca (XVI ciclo) in Automazione e Ingegneria dell'Informazione presso l'Università di Roma “Tor Vergata” – Ph. D at University of Rome “Tor Vergata”
- 1995-2000 Laurea in Ingegneria Informatica presso l'Università di Modena e Reggio Emilia – Laurea degree in computer engineering at University of Modena and Reggio Emilia

ATTIVITÀ DIDATTICHE (TEACHING ACTIVITY)

CORSI UNIVERSITARI (CURRICULAR COURSES)

Sistemi e Applicazioni Cloud (Cloud Applications and Systems): docente del corso per l'anno accademico dal 2020/21 (since 2020/21)

Applicazioni Distribuite e Mobili (Distibuted and Mobile Applications): docente del corso dal 2018/19 al 2021/22 (from 2018/19 to 2021/22)

Applicazioni Web e Mobili (Web and Mobile Applications): docente del corso dal 2018/19 al 2019/20 (from 2018/19 to 2019/20)

Applicazioni Web Distribuite (Distributed Web Applications): dal 2013/14 al 2017/18 (from 2013/14 to 2017/18)

Sistemi e Applicazioni di Rete (Network applications) modulo del corso, dal 2008/09 al 2012/13 (part of course, from 2008/09 to 2012/13)

Reti di calcolatori e lab: (Computer Networks + Lab) dal 2010/11 (since 2010/11)

Reti di calcolatori (Computer Networks): dal 2008/09 al 2009/10 (from 2008/09 to 2009/10)

Laboratorio di reti di calcolatori (Copmuter Networks Lab): dal 2004/05 al 2009/10 (from 2004/05 to 2009/10)

Elementi di Informatica (Principles of Informatics): dal 2005/06 al 2007/08 (from 2005/06 to 2007/08)

Performance Evaluation and Modeling: corso tenuto nell'ambito della scuola di dottorato di ricerca dell'Università Carlos III di Madrid (Ph.D Course at University Carlos III, Madrid)

ATTIVITÀ SEMINARIALE (SEMINARS AND TAKS)

Panel: “Il free software ha conquistato il mondo. È vero?” Linux Day, Ottobre 2019

Seminario: “L’Open Source nel sangue” Linux Day, Ottobre 2016

Seminario: “Automatic clustering of similar VM to improve the scalability of monitoring and management in IaaS cloud infrastructures” DEIB, Politecnico di Milano, Dicembre 2013

Panel: “Mai più libri?” Festival della piccola e media editoria, BUK - Modena, Febbraio 2011

Seminario: “Un pinguino tra i banchi per la diffusione dell’Open Source nelle Scuole” Conferenza Italiana sul Software Libero, Bologna, Giugno 2009

Seminario: “Il software e il movimento Open Source” Università di Modena e Reggio Emilia, Febbraio 2009

Tutorial: “Un sistema di posta Open Source” Linux Day, Ottobre 2007;

Seminario: “A ns2-based simulation framework for performance evaluation of overlay networks” Università di Genova, Ottobre 2006;

Tutorial: “Scalable architectures and services for ubiquitous Web access” in WWW 2006 Conference, Edimburgh, Scotland Maggio 2006;

Seminario: “Architetture a supporto di Ubiquitous Web Access” Università di Roma “Tor Vergata”, Aprile 2006;

Tutorial: “Sicurezza in rete: vulnerabilità, tecniche di attacco e contromisure” Linux Day, Ottobre 2005;

Seminario: “Analisi del Workload e impatto sulla cacheability nei sistemi P2P” Università di Genova, Luglio 2004;

Seminario: “Intermediary-based service delivery” Università di Salerno, Aprile 2004;

Seminario: “Peer to Peer Systems: Workload characterization and Search Algorithms” Università di Parma, Febbraio 2004;

Seminario: “Algoritmi di ricerca per sistemi P2P” Università di Modena e Reggio Emilia, Dicembre 2003;

Seminario: “Architetture two-tier per il Web caching” Università di Napoli, Febbraio 2003;

DIDATTICA PRESSO ENTI DI FORMAZIONE ESTERNI (COURSES OUTSIDE UNIVERSITY)

Corso: “Servizi di rete per sistemi embedded” erogato al personale della ditta MTX organizzato da CS-PMI (2007);

Master: “Gestione di sistemi informativi aziendali tramite strumenti Open”] (2006);

Short Master: “Protezione dei sistemi Informativi” organizzato da Nuova Didattica (2006);

Short Master: “Product manager per sistemi industriali” organizzato da IAL (2005);

Corso: “Sistemi Linux Embedded” erogato al personale della ditta Awax di Vignola (2005).

ATTIVITÀ DI REVISORE (REVIEWING ACTIVITY)

Ruoli come editore delle seguenti riviste (Editor roles):

- Frontiers in Networks

Componente del Comitato Scientifico delle seguenti conferenze internazionali (Member of program committee):

- Conference on Cloud Computing and Services Science (CLOSER) 2018 – 2021
- IEEE International Symposium on Network Computing and Applications (NCA) 2017 – 2020
- International conference on advances in computing, communication and informatics (ICACCI) 2016 – 2018
- New Frontiers in Quantitative Methods in Informatics (InfQ) 2016 – 2017
- Third International Workshop on Sustainable Data Centres and Cloud Computing (SD3C) 2017
- IEEE International Conference on Ubiquitous Computing and Communications (IUCC) 2012 – 2017
- IEEE International Conference on Ubiquitous Computing and Communications (IUCC) 2016: Publication Co-Chair
- International conference on Green IT solutions (ICGREEN) 2015
- International workshop on multi-cloud applications and federated clouds (MULTICLOUD) 2013
- IEEE International Conference on Computer and Information Technology (CIT) 2010 – 2012
- Euromicro International Conference on Parallel, Distributed, and Network-Based Processing (PDP) 2009 – 2013

- Workshop on Modeling, Simulation and Optimization of Peer-to-peer environments (MSOP2P) 2008 – 2011
- IEEE International Symposium on Network Computing and Applications (NCA) 2010
- High Performance Computing and Communications (HPCC) 2009

Revisore di riviste internazionali: ACM Transactions on Internet Technology (TOIT), ACM Transaction on WEB (TWEB), IEEE Transactions on Parallel and Distributed systems (TPDS), Computer Journal, Computer Networks, Journal of Systems and Software, Journal of Network computing and Applications, Int'l Journal of Web Engineering and Technology, IEEE Pervasive computing

Reviewing activity for international journals such as: ACM Transactions on Internet Technology (TOIT), ACM Transactions on WEB (TWEB), IEEE Transactions on Parallel and Distributed systems (TPDS), Computer Journal, Computer Networks, Journal of Systems and Software, Journal of Network computing and Applications, Int'l Journal of Web Engineering and Technology, IEEE Pervasive computing

ATTIVITÀ DI RICERCA (RESEARCH INTERESTS)

ARGOMENTI DI RICERCA ATTUALI (CURRENT RESEARCH TOPICS)

- Edge and Fog computing
- Software-defined data centers
- Cloud Computing

ARGOMENTI DI RICERCA PRECEDENTI (PAST RESEARCH TOPICS)

- Sistemi Web 2.0 ad alte prestazioni
- Architetture distribuite di supporto per ubiquitous computing,

- Web caching cooperativo,
 - Content Delivery Networks,
 - Sistemi P2P.
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PROGETTI (PROJECTS)

PROGETTI SCIENTIFICI NAZIONALI E INTERNAZIONALI (ACADEMIC PROJECTS)

- Componente dell'Unità di Ricerca di Modena per il progetto SECREDAS (2017): "Product SEcurity for Cross-domain RELiable Dependable Automated Systems" - Funded by EU in grant agreement H2020-ECSEL-2017-2-RIA-two-stage no. 783119
- Componente dell'Unità di Ricerca di Modena per il progetto EQUAL-IST (2016): "Gender Equality Plans for Information Sciences and Technology Research Institutions" - Funded by EU in grant agreement H2020-GERI-2015-1 no. 710549
- Componente dell'Unità di Ricerca di Modena per il progetto VIRTUOSO (2010-2012): "Versatile Information Toolkit for end-users oriented open-sources Exploitation". Finanziato da EU, grant agreement FP7-SEC-2009 no. 242352
- Componente dell'Unità di Ricerca di Modena per il progetto ScalaServ (2010-2011): "Scalable and robust architectures for supporting advanced network-based services". Finanziato da programma "Italy-Spain Integrated Actions".
- Componente dell'Unità di Ricerca di Modena per il progetto THIS (2010-2011): "Transport Hub Intelligent video System". Finanziato da 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"
- Componente dell'Unità di Ricerca di Modena per il progetto DOTS-LCCI (2010-2011): "Dependable Off-The-Shelf based middleware systems for

Large-scale Complex Critical Infrastructures”. Finaiziato da MIUR (progetto PRIN)

- Componente dell’Unità di Ricerca di Modena per il progetto COMIFIN (2009-2011): ”Communication Middleware for Monitoring Financial Critical Infrastructures”. Finanziato da EU, grant agreement FP7-ICT-SEC-2008 no. 225407
- Componente dell’Unità di Ricerca di Modena per il Progetto intelligent “training of crisis and security managers, nell’ambito del settimo programma quadro ICT-SEC-2007-1.0-02;
- Componente dell’Unità di Ricerca di Modena per il Progetto Strategico FIRB Obiettivo 3 *Metodi Analitici e Numerici Avanzati*, “Valutazione delle prestazioni dei sistemi complessi: Tecniche, Metodologie e Strumenti” (PERF), Anni 2002-2005, Coordinatore: prof.ssa Calzarossa, Università di Pavia;
- Componente dell’Unità di Ricerca di Modena per il Progetto Strategico FIRB Obiettivo 2 *Reti e Netputing*, “Middleware per servizi evoluti su sistemi distribuiti wired-wireless di grandi dimensioni” (WEB-MINDS), Anni 2002-05, Coordinatore: prof. Chiola, Università di Genova;
- Partecipante al progetto “Advanced architectures for high performance Web systems and services”, IBM Research, T.J. Watson Research Center, NY, USA, 2003.
- Componente dell’Unità di Ricerca di Modena per il Progetto MIUR COFIN 2001-2003, “Sistemi ad alte prestazioni ed infrastrutture di rete per l’accessibilità al Web”, Resp. Prof. Giuseppe Serazzi;

PROGETTI DI RICERCA INDUSTRIALE (APPLIED RESEARCH)

- Responsabile scientifico del progetto ”Digital Experience Platform - Security area” in collaborazione con la ditta Doxee di Modena (2020/21)
- Responsabile scientifico del progetto ”Sistema adattivo, flessibile ed intelligente per il ciclo ceramico” in collaborazione con l’azienda Polis di Bondeno (2020/21)

- Responsabile scientifico del progetto "Dimensionamento di una CDN per il delivery di contenuti multimediali" in collaborazione con la ditta 47Deck di Reggio Emilia (2018)
- Responsabile dell'Unità di Ricerca di Modena per il progetto SterilMed (2010-2012): "New production process for medical bags based on RF-sterilization and ICT-based plant". Finanziato da EU in EUROSTARS-EUREKA programme
- Componente dell'Unità di Ricerca di Modena per il progetto Tixoform (2009-2011). Finanziato dal programma Industria 2015
- Componente dell'Unità di Ricerca di Modena per il progetto ITaste (2009-2011). Finanziato dal programma Industria 2015
- Progetto "Sviluppo dell'infrastruttura middleware per la gestione di processi documentali", in collaborazione con la ditta eBilling di Modena, Bando Ricerca industriale 2005/06;
- Progetto "Sviluppo e ottimizzazione di un sistemi GNU/Linux per controllare macchine da imballaggio", in collaborazione con la ditta Awax di Vignola (2006);
- Sviluppo di un backend open source per il software gestionale MetoPack basato su BerkeleyDB e RPC, in collaborazione con la ditta Metodo di Modena (2006/07);
- Sviluppo di un software di raccolta ed elaborazione dati per centraline di controllo atmosferico, in collaborazione con la ditta MTX (2007/08).

ELENCO PUBBLICAZIONI

RIVISTE (JOURNALS)

1. 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*, Vol. 9, No. 2, Apr. 2021

2. 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*, Vol. 8 No. 4, 2020
3. Roberto Beraldi, Claudia Canali, Riccardo Lancellotti, Gabriele Proietti Mattia, "Distributed load balancing for heterogeneous fog computing infrastructures in smart cities" (preprint), *Pervasive and mobile computing*, Vol. 67, No. 101221, Sep. 2020
4. Claudia Canali, Riccardo Lancellotti, "GASP: Genetic Algorithms for Service Placement in Fog Computing Systems", *Algorithms*, Vol 12, No. 10 Sep. 2019
5. Danilo Ardagna, Claudia Canali, Riccardo Lancellotti, Special Issue on Algorithms for the Resource Management of Large Scale Infrastructures, *Algorithms*, Vol. 11 No. 12, Dec. 2018
6. Claudia Canali, Andrea Corbelli, Riccardo Lancellotti "On private CDNs with off-sourced network infrastructures: A model and a case study", *Journal of Communications Software and Systems (JCOMSS)*, Vol. 14, No. 4, Dec. 2018
7. 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*, Pre-prints, 2018
8. 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*, Pre-prints, 2018
9. Claudia Canali, Riccardo Lancellotti, "Scalable and automatic virtual machines placement based on behavioral similarities", *Computing Journal*, Springer, June 2017, Volume 99, Issue 6, pp 575-595
10. Claudia Canali, Riccardo Lancellotti, "Identifying Communication Patterns between Virtual Machines in Software-Defined Data Centers", *ACM Performance Evaluation Review*, Vol. 44 No. 4, Mar. 2017

11. Claudia Canali, Riccardo Lancellotti, "AGATE: Adaptive Gray Area-based TEchnique to Cluster Virtual Machines with Similar Behavior", *IEEE Transactions on Cloud Computing*, Pre-prints, 2017
12. 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
13. Claudia Canali, Riccardo Lancellotti, "Parameter Tuning for Scalable Multi-Resource Server Consolidation in Cloud Systems", *Journal of Communications Software and Systems (JCOMSS)*, Vol. 11, No. 4, Dec. 2015
14. Claudia Canali, Riccardo Lancellotti, "Exploiting Ensemble Techniques for Automatic Clustering of Virtual Machine Clustering in Cloud Systems", *Automated Software Engineering*, Springer Vol 31, No. 3, September 2014
15. Claudia Canali, Riccardo Lancellotti, "Detecting Similarities in Virtual Machine Behavior for Cloud Monitoring using Smoothed Histograms", *Journal of Parallel and Distributed Computing*, Springer, Vol 74, No. 8, August 2014
16. Claudia Canali, Riccardo Lancellotti, "Improving scalability of cloud monitoring through PCA-based Clustering of Virtual Machines", *Journal of Computer Science and Technology*, Springer, Vol. 29, No. 1, January 2014
17. Claudia Canali, Michele Colajanni, Riccardo Lancellotti, "Algorithms for Web Service Selection with Static and Dynamic Requirements", *Service Oriented Computing and Applications Journal*, Springer, Vol. 7, No. 1, March 2013
18. Claudia Canali, Riccardo Lancellotti, "Automated Clustering of Virtual Machines based on Correlation of Resource Usage", *Journal of Communications Software and Systems (JCOMSS)*, Vol. 8, No. 4, Dec. 2012
19. Claudia Canali, Riccardo Lancellotti, "A quantitative methodology based on component analysis to identify key users in social networks", *International Journal of Social Network Mining*, Vol. 1, No. 1, Jan. 2012
20. Claudia Canali, Michele Colajanni, Riccardo Lancellotti, "Resource management strategies for the Mobile Web", *Mobile Networks and Applications Journal* Vol. 15, N. 2 April 2010, pp. 237-252

21. Claudia Canali, Michele Colajanni, Riccardo Lancellotti, "A two-level distributed architecture for the support of content adaptation and delivery services", *Cluster Computing Journal* Vol. 13, N. 1, March 2010, pp. 1-17
22. C. Canali, M. Colajanni, R. Lancellotti, "Performance Evolution of Mobile Web-Based Services", *IEEE Internet Computing* Mar./Apr. 2009
23. Emiliano Casalicchio, Riccardo Lancellotti, Marco Emilio Poleggi "A Simulation Framework for Cluster-based Web Services" *International Journal of Simulation Systems, Science and Technology*, Vol. 8 N. 4, Oct. 2007
24. Claudia Canali, Valeria Cardellini, Riccardo Lancellotti, "Content Adaptation Architectures Based on Squid Proxy Server", *World Wide Web Journal* Springer, March 2006
25. Mauro Andreolini, Michele Colajanni, Riccardo Lancellotti, "Impact of technology trends on performance of Web-based services", *International Journal of Web Services Practices (IJWSP)*, No. 1 Dec. 2005
26. Riccardo Lancellotti, Francesca Mazzoni, Michele Colajanni: "Hybrid Cooperative Schemes for Scalable and Stable Performance of Web Content Delivery", *Computer Networks Journal* , Vol. 49, Issue 4, Nov. 2005, Elsevier Science
27. Mauro Andreolini, Michele Colajanni, Riccardo Lancellotti, Francesca Mazzoni, "Fine grain performance evaluation of e-commerce sites" *ACM Performance Evaluation Review*, Special Issue on E-Commerce", vol. 32, no. 3 December 2004

SELEZIONATI PER MONOGRAFIE SCIENTIFICHE INTERNAZIONALI (BOOK CHAPTERS)

1. Thiago Alves de Queiroz, Claudia Canali, Manuel Iori, Riccardo Lancellotti "An Optimization View to the Design of Edge Computing Infrastructures for IoT Applications", *invited book chapter in Artificial Intelligence for Cloud and Edge Computing* (Sanjay Misra, Amit Kumar Tyagi, Vincenzo Piuri, Lalit Garg Eds.), Springer, 2020

2. Claudia Canali, Riccardo Lancellotti, "A Technique to Identify Data Exchange Between Cloud Virtual Machines", *invited book chapter in Cloud Computing and Services Science*, Springer, 2020
3. Claudia Canali, Riccardo Lancellotti, Mohammad Shojafar, "An Optimization Model to Reduce Energy Consumption in Software-Defined Data Centers" invited book chapter in *Cloud Computing and Service Science*, Springer, 2018
4. Nicola Biccocchi, Claudia Canali, Riccardo Lancellotti "A Technique to Identify Data Exchange between Cloud Virtual Machines" invited book chapter in *Systems modeling: methodologies and tools*, EAI/Springer, 2018
5. Claudia Canali, Michele Colajanni, Riccardo Lancellotti, "Technological solutions to support Mobile Web 2.0 services" invited book chapter in *Mobile Web 2.0: Developing and Delivering Services to Mobile Phones*, CRC Press
6. Claudia Canali, Valeria Cardellini, Michele Colajanni, Riccardo Lancellotti, "Content Delivery and Management" invited book chapter in *Content Delivery Networks: Principles and Paradigms*, Springer, 2008
7. Michele Colajanni, Riccardo Lancellotti, Philip S. Yu, "Distributed architectures for Web content adaptation and delivery", invited book chapter in *Web Content Delivery* (S. Chanson, X. Tang, J. Xu Eds.), Springer, Oct. 2005
8. Mauro Andreolini, Michele Colajanni, Riccardo Lancellotti, "Web system reliability and performance: design and testing methodologies", invited book chapter" in *Web Engineering - Theory and practice of metrics and measurement for Web development* (E. Mendes and N. Mosley Eds.), Springer Verlag, 2005

CONGRESSI (CONFERENCES)

1. Thiago Alves de Queiroz, Claudia Canali, Manuel Iori, Riccardo Lancellotti, "A Variable Neighborhood Heuristic for Facility Locations in Fog

Computing”, *proc. of the 8th International Conference on Variable Neighborhood Search, ICVNS 2021*

2. Claudia Canali, Riccardo Lancellotti, Sefano Rossi, ”Impact of theoretical performance models on the design of fog computing infrastructures”, *Proc. of the 21th IEEE International Symposium on Network Computing and Applications (NCA 2021)*, Boston, MA (Online event), Nov. 23-26, 2021
3. Claudia Canali, Riccardo Lancellotti, Simone Mione, ”Collaboration Strategies for Fog Computing under Heterogeneous Network-bound Scenarios”, *Proc. of the 19th IEEE International Symposium on Network Computing and Applications (NCA 2020)*, Boston, MA (Online event), Nov. 24-27, 2020
4. Roberto Beraldi, Claudia Canali, Riccardo Lancellotti, Gabriele Proietti Mattia, ”Randomized load balancing under loosely correlated state information in fog computing”, *Proc. of the 23rd International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWIM 2020)*, Alicante, Spain (Online event), Nov. 16-20, 2020
5. 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. June 30th to July 3rd, 2020
6. 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 (Online event), May 7th to 9th, 2020
7. Claudia Canali, Riccardo Lancellotti, ”PAFFI: Performance Analysis Framework for Fog Infrastructures in realistic scenarios”, *Proc. of 4th International Conference on Computing, communication and Security, ICCCS 2019*, Rome, Italy, 10-12 Oct. 2019
8. Matteo Stefanini, Riccardo Lancellotti, Lorenzo Baraldi, Simone Calderara, ”A Deep-learning-based approach to VM behavior Identification in Cloud Systems”, *Proc. of 9th International Conference on Cloud Computing and Services Science, CLOSER 2019*, Heraklio, Greece, 2-4 May 2019

9. 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*, Heraklio, Greece, 2-4 May 2019
10. Claudia Canali, Andrea Corbelli, Riccardo Lancellotti, “Designing a Private CDN with an Off-Sourced Network Infrastructure: Model and Case Study”, *Proc. of 26th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2018)*, Supetar, Croatia, 12-15 September 2018
11. L. Chiaraviglio, N. Blefari-Melazzi, C. Canali, F. Cuomo, R. Lancellotti, M. Shojafar, “A measurement-based analysis of temperature variations introduced by power management on Commodity HardWare” 19th International Conference on Transparent Optical Networks, ICTON 2017, Girona, Catalonia; Spain; 2-6 July 2017
12. Claudia Canali, Riccardo Lancellotti, Mohammad Shojafar “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, 24-26, April 2017
13. 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, 25-28 October 2016
14. Mohammad Shojafar, Claudia Canali, Riccardo Lancellotti, Enzo Baccarelli, “Minimizing Computing-plus-Communication Energy Consumptions in Virtualized Networked Data Centers”, *Proc. of 21st IEEE Symposium on Computers and Communications (ISCC 2016)*, Messina, Italy, 27-30 June 2016
15. Mohammad Shojafar, Claudia Canali, Riccardo Lancellotti, Saeid Abolfazli, “An Energy-aware Scheduling Algorithm in DVFS-enabled Networked Data Centers”, *Proc. of 6th International Conference on Cloud Computing and Services Science (CLOSER 2016)*, Rome, Italy, 23-25 April 2016
16. 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, 16-18 September 2015

17. Claudia Canali, Riccardo Lancellotti, “A Class-based Virtual Machine Placement Technique for a Greener Cloud”, *Proc. of 4th Int’l Conference on Green It Solutions (ICGREEN 2015)*, Milano, 6 July 2015
18. Claudia Canali, Riccardo Lancellotti, “Exploiting Classes of Virtual Machines for Scalable IaaS Cloud Management”, *Proc. of IEEE 4th Symposium on Network Cloud Computing and Applications (NCCA 2015)*, Munich, 11-12 June 2015
19. Danilo Ardagna, Michele Ciavotta, Riccardo Lancellotti, “A Receding Horizon Approach for the Runtime Management of IaaS Cloud Systems”, *Proc. of Workshop in Management of resources and services in Cloud and Sky computing (MICAS 2014)*, Timisoara, Sept. 2014
20. Claudia Canali, Riccardo Lancellotti, “Balancing Accuracy and Execution Time for Similar Virtual Machines Identification in IaaS Cloud”, *Proc. of IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (23th WETICE Conference)*, Parma, Italy, June 2014
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