Curriculum vitæ

Personal Information

Research Lab director & Chair Professor

Name	Dario ROSSI	Date of Birth	27/03/1977
Phone	+33.(0)7.77.20.24.33 (work)	Nationality	Italian, French
e-mail	dario.rossi@huawei.com	Address	75015 Paris, France
Web ↗	https://nonsns.github.io	📄 Extended academic CV ↗	

Work experience

Dates
July 2019 - present

Occupation or position held
Data Communication AI CTO and DataCom Lab

Name and address of employer
Huawei Technologies, co. Ltd 92100 Boulogne-Billancourt, France

Main activities and responsibilities
Main responsabilities:
- As Lab manager: leads 5 teams with experts in expert in machine learning, statistical inference, performance evaluation, operation research, traffic characterization, network architectures, very large-scale simulation and experiments, system design.
- As AI CTO: leads a multi-site team of AI researchers, defines and plans research strategy for AI in Huawei DataCom business unit

Publicly accessible achievements:
- Author of 15+ patents, 200+ papers (full list ↗)
- Publications include top tier venues (ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT, IEEE/ACM ToN, IEEE JSAC, IEEE TMM), attracted 6500+ citations for an H-index of 40+ (Google Scholar ↗)), and had impact on IETF normalization (LEDBAT WG)
- Participation to the Steering committee/Program Chair/Technical Program Committees of 70+ international conferences (incl. ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT) and to the Editorial/Review board for 15+ journals (full list ↗)

Awards:
- ★ *Career awards* (full list ↗): IETF Applied Network Research Prize (2016), Google Faculty Research Award (2015), IEEE INFOCOM Distinguished Member (2015, 2016, 2017 and 2019)
- ★ *Paper awards* (full list ↗): IEEE ComSoc/ISOC Internet TC Award (2016-2017), Best paper at IFIP NTMS'12, TRAC'14, TRAC'15, SIGCOMM InternetQoE'16, NOSSDAV'18, ITC'20, best paper runner up at ITC'13 and ITC'16. Best poster at TMA'16 and Best dataset at PAM'18.

Dates
November 2018 - June 2019

Occupation or position held
Network AI Research Team Leader, Mathematical and Algorithmic Sciences Lab

Name and address of employer
Huawei Technologies, co. Ltd 92100 Boulogne-Billancourt, France

Dates
September 2012 - January 2019

Occupation or position held
Professor, Laboratoire d'Informatique de l'X (LIX)

Name and address of employer
École Polytechnique, 91128 Palaiseau, France

Main activities and responsibilities
Course on Network Security (INF586) and Peer-to-peer networking and applications (INF570)

Dates
January 2012 - October 2018

Occupation or position held
Cisco's Chair Professor, Computer Science and Networking Department (INFRES)

Name and address of employer
Telecom ParisTech, 46 rue Barrault, F-75634 Paris, France

Dates
October 2006 - December 2011

Occupation or position held
Associate Professor (HDR), Computer Science and Networks Department (INFRES)

Name and address of employer
Telecom ParisTech, 46 rue Barrault, F-75634 Paris, France

Dates
January 2005 – September 2006

Occupation or position held
PostDoc Research Engineer

Name and address of employer
Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy

Main activities and responsibilities
Development of a technique for the identification of Skype traffic, funded by Vodafone Group

Dates
August 2003 – August 2004

Occupation or position held
Research Engineer

Name and address of employer
University of California, Berkeley, CA94720-1776, USA

Main activities and responsibilities
Definition and analysis of high-performance algorithms for Distributed Hash Tables.

Dates
January 2001 – July 2003, and September 2004 – December 2004

Occupation or position held
Research Engineer

Name and address of employer
Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy

Main activities and responsibilities	Development of a traffic measurement tool `http://tstat.tlc.polito.it`

Education and training

Title of qualification awarded	**ACM Senior Member (2015)**
Title of qualification awarded	**IEEE Senior Member (2012)**
Dates	**February 2012**
Title of qualification awarded	**Professorship Habilitation (Qualification au Corps des Professeurs des Universités)**
Name and type of organization	Conseil Nationale des Universités (CNU), Section 27 Informatique (n.12127228639; Feb 2nd, 2012)
Dates	**December 2010**
Title of qualification awarded	**HDR Abilitation (Habilitation à Diriger des Recherches)**
Name and type of organization	Université Pierre et Marie Curie (UPMC), 4 place Jussieu 75252, Paris, France
HDR Thesis Title	*P2P Networking: The Dawn of the* Homo Interconnexus *Era*
Dates	**April 2005**
Title of qualification awarded	**PhD in Electronic and Telecommunication Engineering**
Name and type of organization	Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy
PhD Thesis Title	*Traffic at the Network Edge: Sniff, Analyze, Act*
Dates	**January 2002**
Title of qualification awarded	**Qualifying examination to Engineers Register (Esame di Stato)**
Dates	**November 2001**
Title of qualification awarded	**MSc in Telecommunication Engineering (Laurea degree)**
Name and type of organization	Politecnico di Torino – 24, C.so Duca degli Abruzzi, 10129, Torino, Italy
MSc Thesis Title	*A Simulation Study of Web Traffic over DiffServ Networks*
Notes	• Thesis developed with NEC Europe Ltd. – 36, Kurfürsten-Anlage, Heidelberg, Germany. • Project Socrates–Erasmus (1999 – 2000), at Institut Superieur d'Eléctronique du Nord (ISEN)

Personal skills

Mother tongue(s)	**Italian**
Other languages	**French** Living in france since 2006.

English One-year stay in Berkeley, CA (USA) for work purposes. First Certificate in English (FCE), University of Cambridge, UK (1995). Five years of study at the British Churchill Center.

Self-assessment
European level[(*)]

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
French									
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
English									
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user

[(*)]*Common European Framework of Reference (CEF) level*

Social skills	Living in several countries worldwide contributed to both my adaptability to diverse environments and my communication skills; the teaching experience refined the latter. Good propensity to project management and group work, gained throughout leadership in several international projects.

Scientific and Computer skills	Visit my personal ⬀ webpage, or GitHub ⬀ for more!

- **Machine learning.** Supervised classification, unsupervised clustering, stream-learning, forecast and regression, rule-based and reinforcement learning. (Hate but can do) feature selection.
- **Network science.** Control theory, stochastic modeling, monte-carlo & event-driven simulation.
- **Operating Systems.** Linux, Unix and TinyOS (power user and development), Windows (user).
- **Programming Languages.** C/C++, Perl, Python, bash, nesC, Tcl/Tk, Awk, Php, CGI, Ruby
- **Scientific Tools.** Octave, Weka, R, Mathematica and CPLEX; ns2, Omnet++ and TOSSIM;
- **Publishing.** LaTeX, Jekyll, Markdown, graphical (Gimp, Inkscape, Gnuplot, D3.js) and Office.
- **Open-source software developed (a selection)**
  - ⬀ Telemetry: an unsupervised stream-learning clustering algorithm for anomaly detection
  - ⬀ *ccnSim*: ccnSim is a scalable Information centric network simulator with 4000+ downloads
  - ⬀ *WebQoE*: our award-winning project on inferring Web users Quality of Experience
  - ⬀ *iGreedy*: our award-winning project on IPv4 anycast detection and geolocation
  - ⬀ *LEDBAT*: open source implementation of the BitTorrent congestion control protocol
  - ⬀ *LEDBAT+AQM*: Solving the reprioritization issue arising LEDBAT and AQM
  - ⬀ *Tstat*: Traffic analyzer tool with traffic classification capabilities, 30000+ download so far.

Sports and Interests	Ski, basket, hiking, reading, watching OV movies, (HDR) photography (before it was a commodity) and playing guitar (a decade ago, when I had no kids and some spare time)
Driving licences	Italian (Italy, 1996), California (CA, USA, 2003) and French (2016) Driving Licenses