Curriculum vitæ

Research Lab Director & Chair Professor with MSc, PhD and HDR degrees

Personal Information

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

Jul 2019 – now

DataCom AI4NET CTO and DataCom Lab Director, Paris Research Center

Employer — **Huawei Technologies SASU**, 92100 Boulogne-Billancourt, France

Main responsibilities

DataCom Lab Director: leading and managing a 6-teams lab, with experts in: machine learning, performance evaluation, operation research, operating system, network measurement and protocol design.

DataCom AI4NET CTO: lead a multi-site team of AI researchers, defining, planning and executing the AI research strategy for Huawei DataCom business unit, for successful transfer to products.

Publicly accessible achievements:
- Author of 15+ patents, 200+ papers (full list ⬀) that received several awards and attracted 7500+ citations, for an H-index of 40+ (Google Scholar ⬀))
- Publications include top-tier machine learning (ICDM, ICML, KDD, WWW, IJCAI) and networking (SIGCOMM, CoNEXT, INFOCOM, IMC) conferences and journals (ToN, JSAC, TMM).

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 Internet TC Award (2016-2017), Best paper at NTMS (2012), TRAC (2014-2015), SIGCOMM InternetQoE (2016), NOSSDAV (2018), ITC (2020), runner up at ITC (2013) and ITC (2016). Best poster TMA (2016) and dataset at PAM (2018).

Nov 2018 – Jun 2019

Distinguished Engineer and Network AI Research Team Leader, Paris Research Center

Employer — **Huawei Technologies SASU**, 92100 Boulogne-Billancourt, France

Sep 2012 – Jan 2019

Professor, Laboratoire d'Informatique de l'X (LIX)

Employer — **École Polytechnique**, 91128 Palaiseau, France

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

Oct 2016 – Oct 2018 — **Chair Professor**, Computer Science and Networking Department (INFRES)

Jan 2012 – Oct 2016 — **Full Professor**, Computer Science and Networking Department (INFRES)

Oct 2006 – Dec 2011 — **Associate Professor**, Computer Science and Networks Department (INFRES)

Employer — **Telecom ParisTech**, 46 rue Barrault, F-75634 Paris, France

Main responsibilities

Technical leader and manager of a research team:
- Lead of Cisco's Chair NewNet@Paris, direct reporting to CTO and VP level.
- Principal investigator for several projects ($2\times$ FP7, $3\times$ Celtic, $2\times$ ICT Digital and $1\times$ ANR)
- Advisor of 21 PhDs, 9 PostDoc and several undergraduate students
- Coordinator of IMT RT2 Networking research (70+ researchers from 5 institutions)
- Elected member of the Conseil de Labo (LTCI), member of the LINCS Bureau
- Steering/Program Committees of 70+ international conferences (incl. ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT) and Editorial/Review board for 15+ journals (full list ⬀)
- Responsible for several courses (RES203, RES212, RES224, RES240) at graduate and undergraduate levels, in French and English

Jan 2005 – Sep 2006

PostDoc Researcher, Electronics Engineering Department (DELEN)

Employer — **Politecnico di Torino**, C.so Duca degli Abruzzi 24, 10129, Torino, Italy

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

Aug 2003 – Aug 2004

Visiting Research Engineer, Electrical Engineering and Computer Science (EECS)

Employer — **University of California, Berkeley**, CA94720-1776, USA

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

Jan 2001 – Dec 2004

Research Engineer, Electronics Engineering Department (DELEN)

Employer — **Politecnico di Torino**, C.so Duca degli Abruzzi 24, 10129, Torino, Italy

Main responsibilities — PhD studies, revolving around traffic measurement tool http://tstat.tlc.polito.it

Education and qualifications

2015 — **ACM Senior Member**

2012	**IEEE Senior Member**
Feb 2012	**Qualification au Corps des Professeurs des Universités** (CNU Qualification for Full Professor)
Institution	Conseil Nationale des Universités (CNU), Section 27 Informatique (n.12127228639)
Dec 2010	**Habilitation à Diriger des Recherches** (HDR in Computer Science)
Institution	**Université Pierre et Marie Curie (UPMC)**, 4 place Jussieu 75252, Paris, France
HDR Thesis Title	*P2P Networking: The Dawn of the* Homo Interconnexus *Era*
Apr 2005	**Dottorato in Ing. Elettronica e delle Telecomunicazioni** (PhD in Electronics Engineering)
Institution	**Politecnico di Torino**, C.so Duca degli Abruzzi 24, 10129, Torino, Italy
PhD Thesis Title	*Traffic at the Network Edge: Sniff, Analyze, Act*
Mar 2002	**Cultore della Materia (University-level Teaching Qualification)**
Institution	**Politecnico di Torino**, C.so Duca degli Abruzzi 24, 10129, Torino, Italy
Jan 2001	**Esame di Stato, Professione di Ingegnere** (Qualifying examination to Engineers Register)
Institution	**Ministero dell'Istruzione, dell'Universitá e della Ricerca (MIUR)**, Trastevere 76/a, 00153 Roma, Italy
Nov 2001	**Laurea in Ingegneria delle Telecomunicazioni** (MSc in Telecommunication Engineering)
Institution	**Politecnico di Torino**, C.so Duca degli Abruzzi 24, 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	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	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, and through daily responsabilities as Lab Director.

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, hiking, reading, watching OV movies, photography (handheld HDR, with CHDK, and before it was a commodity) and playing guitar (well, 2+ decades ago, when I had no kids and some spare time)

Driving licences Italian (Italy, 1996), California (CA, USA, 2003) and French (2016) Driving Licenses