




Curriculum vitæ



Personal Information

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

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|---|---|---|--|
| 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

Employer

Main responsibilities

DataCom AI4NET CTO and DataCom Department Director, Paris Research Center

Huawei Technologies SASU, 92100 Boulogne-Billancourt, France

DataCom Department Director: leading and managing 6-teams, 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 !\[\]\(c045a398c48fcb47adf237d338b1b391_img.jpg\)](#)) that received several awards and attracted 8500+ citations, for an H-index of 45+ ([Google Scholar !\[\]\(6ea471090ba6b2c70129dc83eb6e6a11_img.jpg\)](#))
- Publications include top-tier machine learning (ICDM, KDD, WWW) and networking (SIGCOMM, CoNEXT, INFOCOM, IMC) conferences and journals (ToN, JSAC, TMM).

Awards:

- ★ *Career awards* ([full list !\[\]\(f9e62ae797645c5367e33d9390832789_img.jpg\)](#)): IETF Applied Network Research Prize (2016), Google Faculty Research Award (2015), 5 × IEEE INFOCOM Distinguished Member (2015-17, 2019, 2023)
- ★ *Paper awards* ([full list !\[\]\(3ae06528cbf191565604ae076c36537e_img.jpg\)](#)): IEEE ComSoc Internet TC Award'16, Best paper at NTMS'12, TRAC'14, TRAC'15), SIGCOMM InternetQoE'16, NOSSDAV'18, ITC'20. Runner up at ITC'12, ITC'16, CoNEXT'21 and PAM'24. Best poster TMA'16 and dataset PAM'18.

Nov 2018 – Jun 2019

Employer

Sep 2012 – Jan 2019

Employer

Main responsibilities

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

Huawei Technologies SASU, 92100 Boulogne-Billancourt, France

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

École Polytechnique, 91128 Palaiseau, France

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

Chair Professor, Computer Science and Networking Department (INFRES)

Full Professor, Computer Science and Networking Department (INFRES)

Associate Professor, Computer Science and Networks Department (INFRES)

Telecom ParisTech, 46 rue Barrault, F-75634 Paris, France

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 × FP7, 3 × Celtic, 2 × ICT Digital and 1 × 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 LINCBS Bureau
- Steering/Program Committees of 70+ international conferences (incl. ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT) and Editorial/Review board for 15+ journals ([full list !\[\]\(b7492e63f13d80b3a46b0c4d159e17d8_img.jpg\)](#))
- Responsible for several courses (RES203, RES212, RES224, RES240) at graduate and undergraduate levels, in French and English

Jan 2005 – Sep 2006

Employer

Main responsibilities

PostDoc Researcher, Electronics Engineering Department (DELEN)

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

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

Aug 2003 – Aug 2004

Employer

Main responsibilities

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

University of California, Berkeley, CA94720-1776, USA

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

Jan 2001 – Dec 2004

Employer

Main responsibilities

Research Engineer, Electronics Engineering Department (DELEN)

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

PhD studies, revolving around traffic measurement tool <http://tstat.tlc.polito.it>

Education and qualifications

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|------------------|--|
| 2023 | ACM Distinguished Member |
| 2022 | IET Member |
| 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 | <i>P2P Networking: The Dawn of the Homo Interconnexus Era</i> |
| 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 | <i>Traffic at the Network Edge: Sniff, Analyze, Act</i> |
| Mar 2002 | Culture 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'Università 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 | <i>A Simulation Study of Web Traffic over DiffServ Networks</i> |
| Notes | <ul style="list-style-type: none"> • Thesis developed with NEC Europe Ltd. – 36, Kurfürsten-Anlage, Heidelberg, Germany. • Project Socrates-Erasmus (1999 – 2000), at Institut Supérieur d'Électronique du Nord (ISEN) |

Personal skills

Mother tongue(s)
Other languages

Self-assessment
European level^()*

French
English

Social skills

Scientific and Computer skills

Sports and Interests

Driving licences

Italian

French Living in France since 2006. French Citizenship since 2014

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.

| Understanding | | Speaking | | | | Writing | |
|---------------|-----------------|----------|-----------------|--------------------|-----------------|-------------------|-----------------|
| Listening | | Reading | | Spoken interaction | | Spoken production | |
| C2 | Proficient user | C2 | Proficient user | C2 | Proficient user | C2 | Proficient user |
| C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user |

^(*) Common European Framework of Reference (CEF) level

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 responsibilities as Department and Lab Director.

- **Machine learning.** Natural language processing, Supervised classification, unsupervised clustering, stream-learning, forecast and regression, rule-based and reinforcement learning.
- **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
 - ☑ **Tstat:** Traffic analyzer tool with traffic classification capabilities, 30000+ downloads.

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)

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