

## Curriculum vitæ

### Personal Information

### Research team leader & Chair Professor

Name	Dario ROSSI	Date of Birth	27/03/1977
Phone	+33.(0)1.45.81.75.63 (work)	Nationality	Italian, French
e-mail	dario.rossi@enst.fr	Address	15 villa Poirier, 75015 Paris, France
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### Work experience

Dates  
Occupation or position held  
Name and address of employer  
Main activities and responsibilities

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#### September 2012 - present

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

École Polytechnique, 91128 Palaiseau, France

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

#### January 2012 - present

##### Cisco's Chair Professor, Computer Science and Networking Department (INFRES)

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

##### Project management and leadership:

- Leader of a team of researchers
  - Lead of Cisco's Chair NewNet@Paris (2016-). Direct reporting to CTO and VP level.
  - Advisor of 21 PhDs, 9 PostDoc and several undergraduate students
- Manager of Telecom ParisTech activities
  - Responsible of several projects (2× FP7, 3× Celtic, 2× ICT Digital and 1× ANR)
  - Member of the Conseil de Labo (LTCI), member of the LINCS Bureau
- Coordinator of Networking research activities at Institut Mines Telecom
  - 70+ researchers from 5 institutions (see RT2)

##### Technical experience and responsibilities:

- Expert in machine learning, statistical inference, performance evaluation, traffic characterization, network architectures, very large-scale simulation and experiments, system design, etc.
- Author of one open-source software with 4000+ downloads (ccnSim)
- Author of 9 patents, 5 bookchapters, 140+ conference and 40+ journal papers full list
- Publications include top tier venues (ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT, IEEE/ACM ToN, IEEE JSAC, IEEE TMM), attracted 4600+ citations for an H-index of 34+ (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)
- Chair of the INFRES department scientific seminar, with 300+ talks
- Responsible for several courses (RES203, RES212, RES224, RES240)

##### Awards:

- ★ *Career awards:* IEEE ComSoc/ISOC Internet Technical Committee Award (2016-2017), IETF Applied Network Research Prize (2016), Google Faculty Research Award (2015) and Distinguished Member of the IEEE INFOCOM TPC (2015, 2016 and 2017).
- ★ *Paper awards:* Best paper at IFIP NTMS'12, TRAC'14, TRAC'15, NOSSDAV'18, runner up at ITC'13 and ITC'16. Awarded best poster at TMA'16 and Best dataset at PAM'18.

#### October 2006 - December 2011

##### Associate Professor (HDR), Computer Science and Networks Department (INFRES)

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

#### January 2005 – September 2006

##### PostDoc Research Engineer

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

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

#### August 2003 – August 2004

##### Research Engineer

University of California, Berkeley, CA94720-1776, USA

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

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

##### Research Engineer

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

Development of a traffic measurement tool <http://tstat.tlc.polito.it>

## Education and training

Title of qualification awarded  
Title of qualification awarded  
Dates  
Title of qualification awarded  
Name and type of organization  
Dates  
Title of qualification awarded  
Name and type of organization  
HDR Thesis Title  
Dates  
Title of qualification awarded  
Name and type of organization  
PhD Thesis Title  
Dates  
Title of qualification awarded  
Name and type of organization  
MSc Thesis Title  
Notes

## Personal skills

Mother tongue(s)  
Other languages

*Self-assessment*  
*European level<sup>(\*)</sup>*

**French**  
**English**

Social skills

Scientific and Computer skills

Sports and Interests

Driving licences

**ACM Senior Member (2015)**

**IEEE Senior Member (2012)**

**February 2012**

**Professorship Habilitation (Qualification au Corps des Professeurs des Universités)**

Conseil Nationale des Universités (CNU), Section 27 Informatique (n.12127228639; Feb 2nd, 2012)

**December 2010**

**HDR Abilitation (Habilitation à Diriger des Recherches)**

Université Pierre et Marie Curie (UPMC), 4 place Jussieu 75252, Paris, France

*P2P Networking: The Dawn of the Homo Interconnexus Era*

**April 2005**

**PhD in Electronic and Telecommunication Engineering**

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

*Traffic at the Network Edge: Sniff, Analyze, Act*

**January 2002**

**Qualifying examination to Engineers Register (Esame di Stato)**

**November 2001**

**MSc in Telecommunication Engineering (Laurea degree)**

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

*A Simulation Study of Web Traffic over DiffServ Networks*

- Thesis developed with NEC Europe Ltd. – 36, Kurfürsten-Anlage, Heidelberg, Germany.
- Project Socrates–Erasmus (1999 – 2000), at Institut Supérieur d'Électronique du Nord (ISEN)

## Italian

**French** Living in France since 2006. French citizenship. Eight years of public school studies.

**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			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C2	Proficient user

<sup>(\*)</sup>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.

Visit my personal webpage, or the Cisco's Chair NewNet@Paris 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.** L<sup>A</sup>T<sub>E</sub>X, 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 when LEDBAT is used together with AQM
  - *Tstat*: Traffic analyzer tool with traffic classification capabilities, 30000+ download so far.

Ski, basket, hiking, reading, watching OV movies, (HDR) photography and playing guitar

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