

## Curriculum vitæ

### Personal Information

### Work experience

Dates

Occupation or position held

Name and address of employer

Main activities and responsibilities

Dates

Occupation or position held

Name and address of employer

Dates

Occupation or position held

Name and address of employer

Main activities and responsibilities

Dates

Occupation or position held

Name and address of employer

Dates

Occupation or position held

Name and address of employer

Dates

Occupation or position held

Name and address of employer

Main activities and responsibilities

Dates

Occupation or position held

Name and address of employer




Main activities and responsibilities

Dates

Occupation or position held

Name and address of employer

### 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 	<a href="https://nonsns.github.io">https://nonsns.github.io</a>	 <a href="#">Extended academic CV </a>	

#### July 2019 - present


##### Data Communication AI CTO and DataCom Lab

**Huawei Technologies, co. Ltd 92100 Boulogne-Billancourt, France**

##### Main responsibilities:

- 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 !\[\]\(f9b64f4644e83001affd22947f1ddbca\_img.jpg\)](#))
- 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 !\[\]\(83ba752acd1c830d54b75e662643371e\_img.jpg\)](#))

##### Awards:

- ★ *Career awards* ([full list !\[\]\(94fdfddc093aa8793f058f8ea8c4d2e0\_img.jpg\)](#)): IETF Applied Network Research Prize (2016), Google Faculty Research Award (2015), IEEE INFOCOM Distinguished Member (2015, 2016, 2017 and 2019)
- ★ *Paper awards* ([full list !\[\]\(8268e9a11819b9845082d102044fae58\_img.jpg\)](#)): 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.

#### November 2018 - June 2019

##### Network AI Research Team Leader, Mathematical and Algorithmic Sciences Lab

**Huawei Technologies, co. Ltd 92100 Boulogne-Billancourt, France**

#### September 2012 - January 2019

##### 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 - October 2018

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

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

#### 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**

## Main activities and responsibilities

### 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

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

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

**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.

**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 [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 arising LEDBAT and AQM
  - ☑ **Tstat:** Traffic analyzer tool with traffic classification capabilities, 30000+ download so far.

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)

**Professional activities**

## Awards

- ★ Receptient of the Best paper award at ITC32 (2020)
- ★ Proud that Danilo Cicalese won the 2nd prize of Telecom ParisTech thesis awards (2019)
- ★ Distinguished Member of the IEEE INFOCOM TPC (2019)
- ★ Winner of the Best paper award at NOSSDAV'18, the 28th ACM SIGMM Workshop on Network and Operating Systems Support for Digital Audio and Video (2018)
- ★ Winner of the Best dataset award at the Passive and Active Measurement (PAM) conference (2018)
- ★ Proud receptient of the IEEE ComSoc/ISOC Internet Technical Committee Best Paper Award (2016-2017)
- ★ Distinguished Member of the IEEE INFOCOM TPC (2017)
- ★ Proud that Enrico Bocchi, co advised with Marco Mellia from Politecnico di Torino, has received the GTTI PhD thesis award (2017)
- ★ Our work was selected as the Best paper of the ACM SIGCOMM Internet-QoE workshop (2016) and reprinted in ACM SIGCOMM Comput. Commun. Rev..
- ★ IETF Applied Network Research Prize (2016)
- ★ Best poster award at IFIP TMA (2016)
- ★ Distinguished Member of the IEEE INFOCOM TPC (2016)
- ★ Danilo's HIJACK-2 team won the CAIDA BGP hackaton (2016)
- ★ Google Faculty Research Award (2015)
- ★ ACM Senior member (2015)
- ★ Best paper award at the 6th International Workshop on TRaffic Analysis and Characterization (TRAC 2015)
- ★ Distinguished Member of the 2015 IEEE INFOCOM TPC
- ★ The research stage of Francois Espinent (X2011) at LINCIS was awarded honourable distinction with unanimous congratulations from the jury
- ★ Best paper award at the 5th International Workshop on TRaffic Analysis and Characterization (TRAC 2014)
- ★ Runner up for best paper award at the 25th International Teletraffic Congress (ITC 2013)
- ★ IEEE Senior member (2013)
- ★ Best paper award at the 5th IFIP International Conference on New Technologies, Mobility and Security (NTMS 2012)

## Teaching activities

## Responsible of the following courses:

- INF568 Network security  
*École Polytechnique, 50h, French - 2017-2018*
- RES212 Network security  
*Telecom ParisTech, 20h, French - 2017-2018*
- RES203 Internet applications  
*Telecom ParisTech, 20h, French - 2015-2019*
- INF570 Peer-to-Peer Networks  
*École Polytechnique, 50h, French - 2012-2017*
- RES224 Architecture des applications Internet  
*Telecom ParisTech, 30h, French - 2008-2015*
- RES223 Le transport et routage Internet  
*Telecom ParisTech, 30h, French - 2008-2012*
- RES240 Principe et architecture des réseaux IP  
*Telecom ParisTech, 60h, French - 2007-2011*
- MSMNT Master Management des Nouvelles Technologies  
*HEC, 15h, French - 2008-2010*

## Intervening in the following courses:

- RES101 Introduction aux réseaux de telecommunications  
*Telecom ParisTech, 6h - 2015*
- GTM2 Groupe de travail Master M2 Recherche  
*Université Pierre et Marie Curie LIP6, 3h, French - 2010, 2011*
- RES380 Expérimentation et étude de performance de technologies réseaux  
*Telecom ParisTech, 6h, English - 2007*
- Wireless Sensor Networks seminar, Master in Wireless Systems and Related Technologies  
*Politecnico di Torino, 20h, English - 2005, 2006*
- Wireless Sensor Network Professional training course  
*TEACH srl (V.S. Gregorio 34, Milan, Italy), 30h, Italian - 2005*
- O6EJRBQ Introduzione alle reti telematiche  
*Politecnico di Torino, 20h, Italian - 2002*
- 01EJVEB Laboratorio di Protocolli  
*Politecnico di Torino, 50h, Italian - 2002*
- 01FOCEB Complementi di Laboratorio  
*Politecnico di Torino, 10h, Italian - 2002*
- ECDL European Computer Driving Licence  
*Ludwigh Informatica s.a.s. (V. Cernaia 31, 10100, Torino, Italy), 60h, Italian - 2001*

PhD Advisor (ongoing)	<ul style="list-style-type: none"> <li>— F. Salutati (expected graduation 2021), co-advised with A. Bifet, Telecom ParisTech</li> <li>— A. Putina (expected graduation 2021), co-advised with A. Bifet, Telecom ParisTech</li> <li>— T. Green (expected graduation 2020), co-advised with A. Lambert, Orange</li> </ul>
PhD Advisor (graduated)	<ul style="list-style-type: none"> <li>— M. Enguehard (graduated May 2019), co-advised with R. Droms, Cisco</li> <li>— J. Samain (graduated Mar 2019), co-advised with G. Carofiglio, Cisco</li> <li>— D. Cicalese (graduated May 2018), co-advised with T. Friedman, UPMC</li> <li>— T. Zhang (visiting 2017), co-advised with Paolo Giaccone, Politecnico di Torino</li> <li>— E. Bocchi (graduated Apr 2017), co-advised with M. Mellia, Politecnico di Torino</li> <li>— C. Imbrenda (graduated Nov 2016), co-advised with L. Muscariello, Orange</li> <li>— A. Araldo (graduated Oct 2016), co-advised with F. Martignon, LRI</li> <li>— Y. Gong (graduated Mar 2016)</li> <li>— R. Mansilha (visiting 2015), co advised with M. Barcelo, Universidad federal do Rio Grande do Sul</li> <li>— M. Tortelli (visiting 2014), co-advised with G. Boggia, Politecnico di Bari</li> <li>— G. Rossini (graduated Feb 2014)</li> <li>— C. Testa (graduated Nov 2012)</li> <li>— M. Gallo (graduated Nov 2012), co-advised with L. Muscariello, Orange</li> <li>— P. M. Santiago del Rio (visiting 2012), co-advised with J. Aracil, Universidad Autonoma Madrid (UAM)</li> <li>— R. Vilardi (visiting 2012), co-advised with G. Boggia, Politecnico di Bari</li> <li>— P. Veglia (graduated Sep 2011)</li> <li>— S. Valenti (graduated Sep 2011)</li> <li>— P. Bermolen (graduated Feb 2010), co-advised with F. Baccelli, INRIA</li> </ul>
PostDocs and Visiting Research Fellows	<ul style="list-style-type: none"> <li>— M. Crovella (Visiting Professor from Boston University, 2018) <a href="https://www.cs.bu.edu/faculty/crovella/">https://www.cs.bu.edu/faculty/crovella/</a></li> <li>— R. Rejate (Visiting Professor from University of Oregon, 2018) <a href="https://ix.cs.uoregon.edu/~reza/">https://ix.cs.uoregon.edu/~reza/</a></li> <li>— T. Zhang (PostDoc, 2018-2019)</li> <li>— D. Da Hora (PostDoc, 2017-2018)</li> <li>— L. Linguaglossa (PostDoc, 2017-2019)</li> <li>— S. Pontarelli (Visiting Researcher from University of Rome Tor Vergata, 2017)</li> <li>— M. Tortelli (2015-2017)</li> <li>— J. Auge (PostDoc, 2014-2015)</li> <li>— D. Zeaiter Joumlatt (PostDoc, 2013-2015)</li> <li>— L. De Cicco (Visiting Researcher from Politecnico di Bari, 2013-2014)</li> <li>— J. Alcober (Visiting Researcher from Universitat Politecnica de Catalunya, 2008)</li> </ul>

	<ul style="list-style-type: none"> <li>— F. Spinelli (2019)</li> <li>— V. Bruschi (2018)</li> <li>— V. A. Krishna (2017)</li> <li>— A. Putina (2017)</li> <li>— F. Salutari (2017)</li> <li>— G. Milotta (2016)</li> <li>— J. Ficapal (2016)</li> <li>— V. Martino (2016)</li> <li>— S. Giuffrida (2015)</li> <li>— L. Bordone (2014)</li> <li>— D. Cicalese (2014)</li> <li>— V. Di Gennaro (2014)</li> <li>— F. Espinet (2014)</li> <li>— S. Colabrese (2013)</li> <li>— G. Nassopoulos (2013)</li> <li>— S. D'Ambrosio (2013)</li> <li>— P. Casoria (2013)</li> <li>— P. Gu (2013)</li> <li>— A. Araldo (2013)</li> <li>— W. Bellante (2012)</li> <li>— M. Spina (2012)</li> <li>— R. Chiocchetti (2012)</li> <li>— C. Chirichella (2012)</li> <li>— D. Tamaro (2010)</li> <li>— A. Raju Kishore (2010)</li> <li>— E. Alessandria (2010)</li> <li>— G. Rossini (2010)</li> <li>— M. Sammarco (2010)</li> <li>— G. LaMantia (2009)</li> <li>— E. Sottile (2009)</li> <li>— A. Ktari (2009)</li> <li>— A. Finamore (2008)</li> <li>— M. Arujo Cardenas (2007)</li> <li>— D. Bonfiglio (2007)</li> <li>— N. Ritacca (2007)</li> <li>— S. Ricci (2006)</li> </ul>
HDR Jury	<ul style="list-style-type: none"> <li>— Fabien Geyer, TU Munich (to be held)</li> <li>— Gwendal Simon, Telecom Bretagne (2015)</li> </ul>
PhD Jury	<ul style="list-style-type: none"> <li>— Tom Barbette (Examiner, 2018)</li> <li>— Luca Vassio (President, 2018)</li> <li>— Zied Aouini (Reviewer, 2017)</li> <li>— Nassima Bouzakaria (Examiner, 2017)</li> <li>— Jonatan Krolkowski (mi-parcours, 2017)</li> <li>— Walid Benchaïta (President, 2016)</li> <li>— Leonce Mekinda (President, 2016)</li> <li>— Leonardo Linguaglossa (Examiner, 2016)</li> <li>— Cesar Bernardini (Reviewer, 2015)</li> <li>— Muhammad Faheem (Examiner, 2014)</li> <li>— Ghida Ibrahim (President, 2014)</li> <li>— Nathalia Rozhanova (mi-parcours, 2014)</li> <li>— Tristan Groleat (2014)</li> <li>— Nan Zhao (Examiner, 2014)</li> <li>— Yasir Khan (mi-parcours, 2013)</li> <li>— Stephane Wustner (mi-parcours, 2013)</li> <li>— Nan Zhao (mi-parcours, 2013)</li> <li>— Ahlem Reggani (mi-parcours, 2013)</li> <li>— Nada Sbihi (mi-parcours, 2012)</li> <li>— Ghida Ibrahim (mi-parcours, 2012)</li> <li>— Felipe Mata Marcos (Reviewer, 2012)</li> <li>— Alexandre Lung Yut Fong (Examiner, 2011)</li> <li>— Diego Alberto (Examiner, 2010)</li> <li>— Noureddine Boujnah (Examiner, 2010)</li> <li>— Mauricio Andres Caceres Duran (Examiner, 2010)</li> <li>— Valentina Martina (Examiner, 2010)</li> <li>— Francesco Mininni (Examiner, 2009)</li> <li>— Robert Birke (Examiner, 2009)</li> <li>— Michele Petracca (Examiner, 2009)</li> <li>— Davide Cuda (Examiner, 2009)</li> </ul>

- IEEE Transactions on Networks and Service Management (Associate Editor)
- IEEE Transactions on Green Communications and Networking (Associate Editor)
- IEEE Journal on Selected Areas in Communications (Associate Editor, Green Communications and Networking Series)
- Elsevier Computer Networks Journal (Associate Editor)
- IEEE Spectrum (Reviewer)
- IEEE Networks (Reviewer)
- IEEE Transactions on Networking (Reviewer)
- IEEE Transactions on Parallel and Distributed Systems (Reviewer)
- IEEE Transactions on Mobile Computing (Reviewer)
- IEEE Transactions on Network and Service Management (Reviewer)
- IEEE Transactions on Circuits and Systems for Video Technology (Reviewer)
- Elsevier Computer Networks Journal (Reviewer)
- Elsevier Computer Communications (Reviewer)
- Springer Peer-to-Peer Networking and Applications (Reviewer)
- Springer Annals of Telecommunications (Reviewer)
- Wiley Security and Communication Networks (Reviewer)

## Scientific seminar

- I created the seminar of the INFRES department in 2008 and run it for 10 years.
- The seminar was jointly organized with H. Randriam during 2010.
  - The seminar has hosted over 300+ talks (see the full list)

Steering and Program Committees  
Chairing

- Chair of Huawei Global Connect, November 2020 (virtual)
- Workshop Co-Chair of **ACM CoNEXT'20**, December 2020, Barcelona, Spain.
- Best Paper Committee of **PAM'20** Passive and Active Measurement, March 2020, Oregon, US
- Award Committee of **ITC30 star award**, 2018–2020
- Chair of Huawei Global Connect, April 2019, Versailles, France
- Vice Chairman of the **International Teletraffic Conference** Steering committee, 2014-onward
- Steering committee of **ACM SIGCOMM AINTEC**, 2015–2019
- Co-Chair of **TMA PhD School'18** IFIP Traffic Measurement and Analysis Conference, June 2018, Vienna, Austria,
- Sponsorship Chair of **IFIP TMA'18** IFIP Traffic Measurement and Analysis Conference, June 2018, Vienna, Austria,
- Area Chair of **ITC29**, 29th ITC conference, Area #4 (Measurements and Big Data Analytics), Genoa, Italy, September 2017,
- PC Chair of **ACM SIGCOMM ICN 2016**, 3rd ACM Conference on Information-Centric Networking (ICN 2016), 26–28 September 2016
- PC Chair of **AINTEC 2014**, 10th Asian Internet Engineering Conference (AINTEC), Thailand, November, 2014 held in cooperation with ACM SIGCOMM
- General Chair of **ACM SIGCOMM PhD School on TMA 2014** 4th PhD School on Traffic Monitoring and Analysis, London, UK, 14–16 April 2014
- PC Chair of **AINTEC 2013** 9th Asian Internet Engineering Conference (AINTEC)

Technical Program Committees  
2021

- **NetSys 2021**, Conference on Networked Systems, Machine Learning in Networking workshop, March 08–11, 2021, LÄjbeck, Germany
- **IEEE INFOCOM'21**, 38th IEEE International Conference on Computer Communications, April 2021

2020

- **IEEE INFOCOM'20**, 37th IEEE International Conference on Computer Communications, April 2020, Beijing China (postponed and online only)
- **ITC'32**, International Teletraffic Congress, September 2020, Osaka, Japan
- **PAM'20** Passive and Active Measurement (PAM) conference, March 2020, Oregon, US

2019

- **IEEE INFOCOM'19**, 37th IEEE International Conference on Computer Communications, April 2019, Paris, France
- **WWW Wiki workshop'19**, 30th Web Conference (WWW), May 2019, San Francisco, CA
- **ITC31**, International Teletraffic Congress, August 2019, Budapest, Hungary

2018

- **ACM SIGCOMM'18**, 32st ACM SIGCOMM Conference, Poster and demo track, August 2018, Budapest, Hungary
- **IEEE INFOCOM'18**, 36th IEEE International Conference on Computer Communications, April 2018, Hawaii, US
- **ITC30**, ITC30 Area 2: Network Measurements and Big Data, September 3–7, 2018, Vienna, Austria
- **FMEC2018**, Third International IEEE Conference on Fog and Mobile Edge Computing (FMEC'18), April 23–26, 2018, Barcelona, Spain.

- 2017
  - **ACM CoNEXT'17**, 13th ACM International Conference on emerging Networking EXperiments and Technologies (CoNEXT'17),
  - **ACM ICN'17**, 4th ACM Conference on Information-Centric Networking (ICN'17), Sep. 26-28, Poster and demo session.
  - **ITC29**, 29th ITC conference, Area #1 (Networking, Cloud/Fog/Ubiquitous Computing, and Applications, Genoa, Italy, September 2017
  - **BigDAMA'17**, 1st ACM SIGCOMM 2017 Workshop on Big Data Analytics and Machine Learning for Data Communication Networks (Big-DAMA'17)
  - **ACM SIGCOMM'17**, 31st ACM SIGCOMM Conference, Poster and demo track, Los Angeles, CA, USA, August 2017
  - **IFIP TMA'17**, IFIP Network Traffic Measurement and Analysis Conference, Dublin, Ireland, June 2017
  - **IEEE INFOCOM'17**, 35th IEEE International Conference on Computer Communications Atlanta, USA, May 2017 **Distinguished Member Award ★**
  - **CCDWN**, 2nd workshop on Content Delivery and Caching in Wireless Networks (CCDWN'17), co-located with WiOpt 2017, Paris France, May 2017
- 2016
  - **IEEE INFOCOM'16** 34th IEEE International Conference on Computer Communications, Hong Kong, China, 26 April - 1 May, 2015. **Distinguished Member Award ★**
  - **ITC28** The 28th International Teletraffic Congress (ITC28), Wuezburg, Germany September 12-16, 2013, held in cooperation with ACM SIGCOMM
- 2015
  - **IEEE INFOCOM'15** 34th IEEE International Conference on Computer Communications, Hong Kong, China, 26 April - 1 May, 2015. **Distinguished Member Award ★**
  - **ACM SIGCOMM ICN'15** 2nd ACM conference on Information-centric Networking, San Francisco, USA, September 30 - October 2, 2015.
  - **ICNC'15**, International Conference on Computing, Networking and Communications, Anaheim, CA, USA, February 16-19, 2015
  - **PAM'15** Passive and Active Measurement Conference, New York City, NY, March 19-20, 2015
- 2014
  - **IEEE INFOCOM'14** 33rd IEEE International Conference on Computer Communications, Toronto, Canada, April 27-May 2, 2014
  - **TMA 2014** 6th International Workshop on Traffic Monitoring and Analysis (TMA), London, UK,
  - **TRAC 2014** 5th International Workshop on TRaffic Analysis and Characterization, Nicosia, Cyprus, August 4-8, 2014
  - **EuCNC 2014** 23rd European Conference on Networks and Communications, Bologna, Italy, June 23-26, 2014.
  - **IEEE Globecom'14** IEEE Global Communication Conference, Austin, Texas, US, 9-12 December, 2014
  - **IEEE CCNC'14** 11th Annual IEEE Consumer Communication and Networking Conference (CCNC 2014), Las Vegas, January, 2014
  - **IEEE ICNC'14** International Conference on Computing, Networking and Communications (ICNC 2014), Honolulu, Hawaii, USA, February 3-6, 2014
- 2013
  - **ACM CoNEXT 2013** 9th International Conference on emerging Networking EXperiments and Technologies (CoNEXT), Santa Barbara, CA, USA, 9-12 December 2013
  - **ITC25** The 25th International Teletraffic Congress (ITC25), Shanghai, China, September 10-12, 2013.
  - **IEEE TRICANS'13** 1st IEEE ICC Workshop on Traffic Identification and Classification for Advanced Network Services and Scenarios (TRICANS), Budapest, June 2013
  - **IEEE ISWCS'13 Workshop on Energy Efficient Wireless Networks** co-located with the 10th International Symposium on Wireless Communication Systems, Ilmenau, Germany, 27-30 August
  - **IEEE ISCC 2013** 18th IEEE Symposium on Computers and Communications, Split, Croatia, July 7-10, 2013
  - **IEEE ICC'13** IEEE International Conference on Communications, Budapest, 9-13 June 2013
  - **IEEE INFOCOM'13** The 31th IEEE International Conference on Computer Communications, Turin, Italy, 13-19 April 2012
  - **IEEE INFOCOM Workshop on Emerging Design Choices in Name-Oriented Networking (NOMEN'13)** co-located with the 31th IEEE International Conference on Computer Communications, Turin, Italy, 13-19 April 2012
  - **IEEE INFOCOM Workshop on Traffic Measurement and Analysis (TMA'13)** co-located with the 31th IEEE International Conference on Computer Communications, Turin, Italy, 13-19 April 2012
  - **ACM SAC'13** 28th ACM Symposium on Applied Computing, Coimbra, Portugal, March 18-22, 2013
  - **IEEE CCNC'13** 10th Annual IEEE Consumer Communications and Networking Conference, Las Vegas, January, 2013

2012	<ul style="list-style-type: none"> <li>— <b>AINTEC 2012</b> 8th Asian Internet Engineering Conference (AINTEC) 2012, November 14-16, in Bangkok, Thailand.</li> <li>— <b>IEEE CAMAD 2012</b> IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD), Barcelona, Spain, 17-19 September 2012</li> <li>— <b>IEEE ISCC 2012</b> 17th IEEE International Symposium on Computer and Communications, Cappadocia, Turkey, July 1-4, 2012</li> <li>— <b>IEEE GCN 2012</b> IEEE ICC'12 Workshop on Green Communications and Networking, Ottawa, Canada, June 10-15 2012</li> <li>— <b>IEEE ICC 2012</b> IEEE International Conference on Communications, Ottawa, Canada, June 10-15 2012</li> <li>— <b>IEEE WCNC 2012 Workshop on Future Green Communications</b> IEEE Wireless Communications and Networking Conference (WCNC 2012), Workshop on Future Green Communications, Paris, France 1 April 2012</li> <li>— <b>ACM SAC 2012</b> The 27th Annual ACM Symposium on Applied Computing, Networking Track, March 25-29, 2012, Riva del Garda (Trento), Italy.</li> <li>— <b>IEEE INFOCOM 2012</b> The 30th IEEE International Conference on Computer Communications, Orlando, FL, 20-25 March 2012</li> <li>— <b>IEEE INFOCOM Workshop on Emerging Design Choices in Name-Oriented Networking (NOMEN'2012)</b> Co-located with the 30th IEEE International Conference on Computer Communications, Orlando, FL, 20-25 March 2012</li> <li>— <b>IEEE INFOCOM Workshop on Communications and Control for Sustainable Energy Systems (CCSES): Green Networking and Smart Grids</b> Co-located with the 30th IEEE International Conference on Computer Communications, Orlando, FL, 20-25 March 2012</li>   <li>— <b>TMA 2012</b> 4th COST TMA International Workshop on Traffic Monitoring and Analysis, colocated with Passive and Active Measurement (PAM 2012), Vienna, Austria, March 12-14, 2012</li> <li>— <b>IEEE CCNC 2012</b> The 9th Annual IEEE Consumer Communications and Networking Conference, Las Vegas, NV, 7-14 January 2012</li> </ul>
2011	<ul style="list-style-type: none"> <li>— <b>IEEE GLOBECOM 2011</b>, IEEE Global Communication Conference, Orlando, Texas, US, 5- 9 December, 2011,</li> <li>— <b>IEEE CSE 2011</b>, The 14th IEEE International Conference on Computational Science and Engineering, Dalian, China, 24-26 August 2011</li> <li>— <b>IEEE ISCC 2011</b>, IEEE International Symposium on Computer Communications, Corfu, Greece, June 28 - August 1, 2011,</li> <li>— <b>TMA 2011</b>, Third COST TMA International Workshop on Traffic Monitoring and Analysis, colocated with European Wireless 2011, Vienna, Austria, April 27, 2011</li> <li>— <b>IEEE ICC 2011</b>, IEEE International Conference on Communications, Kyoto, Japan, 5-9 June 2011</li> <li>— <b>IEEE International Workshop on Cross-Layer Operation Aided Multimedia Streaming</b>, colocated with the 73rd IEEE Vehicular Technology Conference (VTC2011-Spring), Budapest, Hungary, 15-18 May 2011,</li> <li>— <b>IEEE INFOCOM Workshop on Green Communications and Networking</b>, Co-located with IEEE INFOCOM 2011, Shanghai, China, 10-15 April 2011</li> </ul>
2010	<ul style="list-style-type: none"> <li>— <b>IEEE GLOBECOM'10</b>, IEEE Global Communications Conference, Miami, FL, USA, 6-10 December 2010</li> <li>— <b>IEEE ISCC'10</b>, IEEE International Symposium on Computer Communications, Riccione, Italy, June 22 - 25, 2010</li> <li>— <b>IEEE ICC'10</b>, IEEE International Conference on Communications, Capetown, South Africa, 23-26 May, 2010</li> <li>— <b>TMA'10</b>, 2nd Traffic Monitoring and Analysis Workshop, colocated with Passive and Active Measurement Conference, Zurich, Switzerland, April 7, 2010,</li> </ul>
2009	<ul style="list-style-type: none"> <li>— <b>IEEE ISCC'09</b>, International Symposium on Computers and Communications, Sousse, Tunisia, July 5 - 8, 2009,</li> <li>— <b>ITCSS-20</b>, 20th ITC Specialist Seminar (ITCSS-20), Hoi An, Viet Nam, 18-20 May 2009,</li> <li>— <b>TMA'09</b>, 1st Traffic Monitoring and Analysis Workshop, co-located with IFIP Networking 2009, Aachen, Germany, May 11-15, 2009,</li> <li>— <b>IEEE ICC'09</b>, IEEE International Conference on Communications, June 14-18, Dresden, Germany, 2009,</li> </ul>



2008	<ul style="list-style-type: none"> <li>— <b>IEEE MP2P'08</b>, 5th IEEE Workshop on Mobile P2P Computing, held in conjunction with the 6th IEEE International Conference on Pervasive Computing and Communications (PerCom'08), Hong Kong, China, March 17 - 21, 2008</li> <li>— <b>IEEE ICC'08</b>, IEEE International Conference on Communications, Wireless Networking Symposium, Beijing, China, 19-23 May 2008</li> <li>— <b>IEEE IT-NEWS'08</b>, 4th International Telecommunication NETworking WorkShop on QoS in Multiservice IP Networks, February 2008 in Venice, Italy</li> </ul>
2007	<ul style="list-style-type: none"> <li>— <b>MoVeNet'07</b>, International Workshop on Mobile Vehicular Networks, October 12, 2007, Pisa, Italy (Co-Located with IEEE MASS 2007)</li> <li>— <b>IEEE IPCCC'07</b>, 26th IEEE International Performance Computing and Communications Conference, April 2007, New Orleans, Louisiana, USA</li> </ul>
Research Projects	<p>Project management at Telecom ParisTech:</p> <ul style="list-style-type: none"> <li>— <b>NewNet@Paris</b> (2016-2018): Cisco's Chair "NETWORKS FOR THE FUTURE" at Telecom ParisTech (Lead D.Rossi)</li> <li>— <b>KIC EIT ICT Labs</b> (2015): Virtual Data Plane for Software defined network Content (Lead D. Perino, Nokia)</li> <li>— <b>FP7 IP mPlane</b> (2013-2015): A monitoring Plane for the Internet (Lead M. Mellia, Polito)</li> <li>— <b>KIC EIT ICT Labs</b> (2012-2013): Smart Ubiquitous Content (Lead R. Lo Cigno, Trento)</li> <li>— <b>Orange Labs CRE Grant</b> (2010-2012): Locarn++ (Lead D.Rossi)</li> <li>— <b>ANR VERSO CONNET</b> (2011-2013): Content Oriented Networking (Lead G. Carofiglio, Alcatel Lucent Bell Labs)</li> <li>— <b>Orange Labs CIFRE Grant</b> (2010-2012): M. Gallo PhD thesis.</li> <li>— <b>Cost IC0703 Tma</b> (2008-2011): Traffic Monitoring and Analysis (Lead F. Ricciato, Ftw)</li> <li>— <b>Eureka Celtic Trans</b> (2008-2010): Traffic Aware Network and Services (Lead D. Kofman, RAD)</li> <li>— <b>Eureka Celtic Tiger2</b> (2008-2010): Together IP, GMPLS and Ethernet Reconsidered, Phase 2 (Lead L. Ciavaglia, Alcatel-Lucent)</li> <li>— <b>Fp7 Strep Napa-Wine</b> (2007-2010): Network Aware P2P Application over Wise Networks (Lead E. Leonardi, Politecnico di Torino)</li> <li>— <b>Eureka Celtic Tiger</b> (2006-2008): Together IP, GMPLS and Ethernet Reconsidered (Lead N. Le Sauze, Alcatel-Lucent). <i>Tiger received the Celtic Excellence Award in Gold.</i></li> </ul> <p>Previous project involvement:</p> <ul style="list-style-type: none"> <li>— <b>Miur Prin Mimosa</b> (2005-2007): Misure sperimentali e MODelli di traffico dati multiServizio a pAcchetto (Lead Prof. A. Pattavina, Politecnico di Milano)</li> <li>— <b>Miur Prin Famous</b> (2005-2007): Fluid Analytical Models Of aUtonomic Systems (Lead Prof. A. Lombardo, Università degli Studi di Catania)</li> <li>— <b>EuroNGI JRA.S.13 Ipam</b> (2005-2006): Integration of Passive and Active Measurement Platforms (Lead Prof. R. Valadas, IT Aveiro)</li> <li>— <b>Fp7 NoE EuroNGI</b> (2004-2006): Network of Excellence on the Next Generation Internet (Lead Prof D. Kofman, Telecom ParisTech)</li> <li>— <b>Miur Prin Pattern</b> (2003-2005): Protocols And cross-layer Techniques To achieve Energy-efficiency in Reconfigurable ad-hoc and sensor Networks (Lead Prof. G. Mazzini, Università di Ferrara)</li> <li>— <b>Miur Firb Tango</b> (2001-2003): Traffic models and Algorithms for Next Generation IP networks Optimization (Lead Prof. G. Prati, CNIT)</li> </ul>
<b>Publication list</b>	
Note	Complete list of publications <b>by date</b> , <b>by type</b> and <b>by project</b> as well as the list of <b>award winning</b> publications and a selection of the <b>most recent</b> ones, are available online from my webpage. Below, publications are arranged by date.
Bibliometry	Up-to-date information available from my <b>Google scholar</b> profile.
<b>2021</b> : [11]	Massimo Gallo,Alessandro Finamore,Gwendal Simon,Dario Rossi, "FENXI: Fast In-Network Analytics", <i>IEEE/ACM Symposium on Edge Computing (SEC)</i> , Dec., 2021 [PDF]
[10]	Jonatan Krolkowski,Ovidiu Iacobaiea,Zied Ben Houidi,Dario Rossi, "WiFi Dynoscope: Interpretable Real-Time WLAN Optimization", <i>IEEE INFOCOM, Demo session</i> , may, 2021 [PDF]
[9]	Lixuan Yang,Alessandro Finamore,Jun Feng,Dario Rossi, "Deep Learning and Traffic Classification: Lessons learned from a commercial-grade dataset with hundreds of encrypted and zero-day applications: ", , 2021, [PDF]
[8]	Lixuan Yang,and Dario Rossi, "Quality monitoring and assessment of deployed Deep Learning models for Network AIOps: ", , 2021, [PDF]
[7]	Ovidiu Iacobaiea,Jonatan Krolkowski,Zied Ben Houidi,Dario Rossi, "The long and winding road to Deep Autonomous Networks: Lessons from real WLAN deployment: ", , 2021, [PDF]

- [6] Huet, Alexis, Saverimoutou, Antoine, Houidi, Zied Ben, Shi, Hao, Cai, Shengming, Xu, Jinchun, Mathieu, Bertrand, Rossi, Dario, "Deployable models for approximating web QoE metrics from encrypted traffic", *IEEE Transactions on Network and Service Management*, pp. 839-854, march, 2021 [PDF]
- [5] Jose Manuel Navarro, Alexis Huet, Dario Rossi, "Human readable network troubleshooting based on anomaly detection and feature scoring: ", , 2021, [PDF]
- [4] Alessandro Finamore, Massimo Gallo, Gwendal Simon, Dario Rossi, "Controller For A Cache And Method For Controlling A Cache",
- [3] Ovidiu Iacobaiea, Jonatan Krolikowski, Zied Ben Houidi, Dario Rossi, "Real-Time Channel Management in WLANs: Deep Reinforcement Learning Versus Heuristics", *IFIP Networking, Helsinki, Finland*, , 2021 [PDF]
- [2] Jose Manuel Navarro, Alexis Huet, Dario Rossi, Andrian Putina, Mauro Sozio, "System and method for combining anomaly detection algorithms",
- [1] Lixuan Yang, Feng Jun, Dario Rossi, "Device and method for identifying unknown classes for artificial neural networks",
- 2020:** [21] Andrian Putina, Mauro Sozio, Jose M. Navarro, Dario Rossi, "Random Histogram Forest for Unsupervised Anomaly Detection", *20th IEEE International Conference on Data Mining (ICDM)*, Nov., 2020 [PDF]
- [20] Sarah Wassermann, Pedro Casas, Zied Ben Houidi, Alexis Huet, Michael Seufert, Nikolas Wehner, Joshua Schuler, Sheng-Ming Cai, Hao Shi, Jinchun Xu, Tobias Hossfeld, Dario Rossi, "Are you on Mobile or Desktop? On the Impact of End-User Device on Web QoE Inference from Encrypted Traffic", *IEEE International Conference on Network and Service Management (CNSM)*, Nov., 2020 [PDF]
- [19] Alexis Huet, Zied Ben Houidi, Bertrand Mathieu, Dario Rossi, "Detecting Degradation of Web Browsing Quality of Experience (QoE)", *IEEE International Conference on Network and Service Management (CNSM)*, Nov., 2020 [PDF]
- [18] Andrian Putina, Dario Rossi, "Online anomaly detection leveraging stream-based clustering and real-time telemetry", *IEEE Transactions on Network and Service Management*, Vol. 18, No. 1, pp. –, November, 2020 [PDF]
- [17] James Roberts, Dario Rossi, "Method Of Managing Data Transmission For Ensuring Per-Flow Fair Bandwidth Sharing", *Patent PCT/EP2020/080037*
- [16] Alexis Huet, Dario Rossi, "Detecting A Network-Induced Contribution To A Quality Of Experience Degradation", *Patent PCT/EP2020/077766*
- [15] Jose M. Navarro and Dario Rossi, "HURRA! Human readable router anomaly detection", , , keyword=anomaly, bestpaperaward, project=huawei, ★[PDF]
- [14] Massimo Gallo, Alessandro Finamore, Gwendal Simon, Dario Rossi, "Real-time Deep Learning based Traffic Analytics", *ACM SIGCOMM, Demo session*, Aug., 2020 [PDF]
- [13] Jose Manuel Navarro, Dario Rossi, "HURRA: Human-Readable Router Anomaly Detection", *IEEE INFOCOM, Demo session*, july, 2020 [PDF]
- [12] Cedric Beliard, Alessandro Finamore, Dario Rossi, "Opening the Deep Pandora Box: Explainable Traffic Classification", *IEEE INFOCOM, Demo session*, july, 2020 [PDF]
- [11] German Sviridov, Cedric Beliard, Gwendal Simon, Andrea Bianco, Paolo Giaccone, Dario Rossi, "Leveraging AI players for QoE estimation in cloud gaming", *IEEE INFOCOM, Demo session*, july, 2020 [PDF]
- [10] German Sviridov, Cedric Beliard, Andrea Bianco, Paolo Giaccone, Dario Rossi, "Removing human players from the loop: AI-assisted assessment of Gaming QoE", *IEEE INFOCOM, Workshop on Network Intelligence*, july, 2020 [PDF]
- [9] F. Salutari, D. Da Hora, G. Dubuc, D. Rossi, "Analyzing Wikipedia Users' Perceived Quality Of Experience: A Large-Scale Study", *IEEE Transactions on Network and Service Management*, Vol. 17, No. 2, pp. 1082–1095, June, 2020 [PDF]
- [8] Alexis Huet, Antoine Saverimoutou, Zied Ben Houidi, Hao Shi, Shengming Cai, Jinchun Xu, Bertrand Mathieu, Dario Rossi, "Revealing QoE of Web Users from Encrypted Network Traffic", *IFIP Networking*, June, 2020 [PDF]
- [7] Flavia Salutari, Matteo Varvello, Renata Teixeira, Vassilis Christophides, Dario Rossi, Diego Da Hora, "Implications of User Perceived Page Load Time Multi-Modality on Web QoE Measurement", *MedComNet*, June, 2020 [PDF]
- [6] Lixuan Yang, Cedric Beliard, Dario Rossi, "Devices, Methods, And System For Heterogeneous Data-Adaptive Federated Learning",

- 2019: [8]**

- [11] Tobias Hossfeld, Florian Metzger, Dario Rossi, "Speed Index: Relating the Industrial Standard for User Perceived Web Performance to Web QoE", *10th International Conference on Quality of Multimedia Experience (QoMEX 2018)*, June, 2018 [PDF]
- [10] Tianzhu Zhang, Leonardo Linguaglossa, Massimo Gallo, Paolo Giaccone, Dario Rossi, "FlowMon-DPDK: Parsimonious per-flow software monitoring at line rate", *Network Traffic Measurement and Analysis Conference (TMA'18)*, June, 2018 [PDF]
- [9] Diego Neves da Hora, Vassilis Christophides, Renata Teixeira, Dario Rossi, "Perceptual evaluation of web-browsing", *Talk at the RIPE76, Measurement and Tools (MAT) Working Group, Marseille, France*, May, 2018
- [8] Vamsi Addanki, Leonardo Linguaglossa, James Roberts, Dario Rossi, "Controlling software router resource sharing by fair packet dropping", , May, 2018 [PDF]
- [7] Andrian Putina, Dario Rossi, Albert Bifet, Steven Barth, Drew Pletcher, Cristina Precup, Patrice Nivaggioli, "Unsupervised real-time detection of BGP anomalies leveraging high-rate and fine-grained telemetry data", *IEEE INFOCOM, Demo Session*, April, 2018 [PDF]
- [6] David Barach, Leonardo Linguaglossa, Damjan Marion, Pierre Pfister, Salvatore Pontarelli, Dario Rossi, Jerome Tollet, "Batched packet processing for high-speed software data plane functions", *IEEE INFOCOM, Demo Session*, April, 2018 [PDF]
- [5] Salutati, Flavia, Cicalese, Danilo, Rossi, Dario, "A closer look at IP-ID behavior in the Wild", *International Conference on Passive and Active Network Measurement (PAM)*, Berlin, Germany, Mar, 2018 [PDF]
- [4] Diego Neves da Hora, Alemnew Sheferaw Asrese, Vassilis Christophides, Renata Teixeira, Dario Rossi, "Narrowing the gap between QoS metrics and Web QoE using Above-the-fold metrics", *International Conference on Passive and Active Network Measurement (PAM)*, Receptient of the Best dataset award, Berlin, Germany, Mar, 2018 ★[PDF]
- [3] Green, Thomas, Lambert, Anthony, Pelsser, Cristel, Rossi, Dario, "Leveraging Inter-domain Stability for BGP Dynamics Analysis", *International Conference on Passive and Active Network Measurement (PAM)*, Berlin, Germany, Mar, 2018 [PDF]
- [2] Cicalese, Danilo, Rossi, Dario, "A longitudinal study of IP Anycast", *ACM Computer Communication Review*, Vol. 1, , 2018 [PDF]
- [1] Araldo, Andrea, Dan, Gyorgy, Rossi, Dario, "Caching Encrypted Content via Stochastic Cache Partitioning", *IEEE/ACM Transactions on Networking*, Vol. 26, , 2018 [PDF]
- 2017:** [10] Green, Thomas, Lambert, Anthony, Cristel, Pessler, Rossi, Dario, "Leveraging interdomain stability for squeezed and juicy BGP dynamics", *ACM Internet Measurement Conference (IMC)*, Poster session, Nov, 2017
- [9] Tortelli, Michele, Rossi, Dario, Leonardi, Emilio, "Parallel Simulation of Very Large-Scale General Cache Networks: ", , 2017, [PDF]
- [8] Salutati, Flavia, Cicalese, Danilo, Rossi, Dario, "A closer look at IP-ID behavior in the Wild: ", , 2017, [PDF]
- [7] da Hora, Diego Neves, Asrese, Alemnew Sheferaw, Christophides, Vassilis, Teixeira, Renata, Rossi, Dario, "Narrowing the gap between QoS metrics and Web QoE using Above-the-fold metrics: ", , 2017, [PDF]
- [6] Samain, Jacques, Carofiglio, Giovanna, Muscariello, Luca, Papalini, Michele, Sardara, Mauro, Tortelli, Michele, Rossi, Dario, "Dynamic Adaptive Video Streaming: Towards a systematic comparison of ICN and TCP/IP", *IEEE Transactions on Multimedia*, Vol. 19, pp. 2166-2181, October, 2017 [PDF]
- [5] Tortelli, Michele, Rossi, Dario, Leonardi, Emilio, "A Hybrid Methodology for the Performance Evaluation of Internet-scale Cache Networks", *Elsevier Computer Networks*, Vol. 125, pp. 146-159, September, 2017 [PDF]
- [4] Mansilha, R., Barcellos, M., Leonardi, E., Rossi, D., "Exploiting Parallelism in Hierarchical Content Stores for High-speed ICN Routers", *Elsevier Computer Networks*, Vol. 125, pp. 132-145, September, 2017 [PDF]
- [3] Cicalese, Danilo, Rossi, Dario, "A longitudinal study of IP Anycast: ", , 2017, [PDF]
- [2] Bocchi, Enrico, De Cicco, Luca, Mellia, Marco, Rossi, Dario, "The Web, the Users, and the MOS: Influence of HTTP/2 on User Experience", *Passive and Active Measurements*, Apr, 2017 [PDF]
- [1] Trevisan, Martino, Finamore, Alessandro, Mellia, Marco, Munafo, Maurizio, Rossi, Dario, "Traffic Analysis with Off-the-Shelf Hardware: Challenges and Lessons Learned", *IEEE Communication Magazine*, Vol. 55, pp. 163 - 169, March, 2017 [PDF]
- 2016:** [18] Araldo, Andrea, Dan, Gyorgy, Rossi, Dario, "Stochastic Dynamic Cache Partitioning for Encrypted Content Delivery", *ITC28, Runner-up for best paper award and receptient of the IEEE ComSoc/ISOC Internet Technical Committee Best paper award 2016-2017*, Sep, 2016 ★[PDF]

- [17] Tortelli, Michele, Rossi, Dario, Leonardi, Emilio, "ModelGraft: Accurate, Scalable, and Flexible Performance Evaluation of General Cache Networks", *ITC28*, Sep, 2016 [PDF]
- [16] De Cicco, Luca, Gong, Yixi, Rossi, Dario, Leonardi, Emilio, "A control theoretic analysis of low-priority congestion control reprioritization under AQM", *ACM Transactions on Modeling and Performance Evaluation of Computer Systems*, Vol. 1, pp. 17:1–17:33, Sep, 2016 [PDF]
- [15] M. Tortelli, D. Rossi, E. Leonardi, "Running ModelGraft to Evaluate Internet-scale ICN", *ACM ICN, Demo session, Kyoto, Japan*, Sep, 2016 [PDF]
- [14] M. Enguehard, R. Droms, D. Rossi, "On the Cost of Secure Association of Information Centric Things", *ACM ICN, Poster session, Kyoto, Japan*, Sep, 2016 [PDF]
- [13] M. Enguehard, R. Droms, D. Rossi, "SLICT: Secure Localized Information Centric Things", *ACM ICN, IC5G workshop, Kyoto, Japan*, Sep, 2016 [PDF]
- [12] Bocchi, Enrico, De Cicco, Luca, Rossi, Dario, "Measuring the Quality of Experience of Web users", *ACM SIGCOMM Workshop on QoE-based Analysis and Management of Data Communication Networks (Internet-QoE 2016)*, selected as best paper in the workshop for reprint in *ACM SIGCOMM Comput. Commun. Rev.*, Aug, 2016 ★[PDF]
- [11] Cicalese, Danilo, Jounblatt, Diana, Rossi, Dario, Buob, Marc-Olivier, Auge, Jordan, Friedman, Timur, "Latency-Based Anycast Geolocalization: Algorithms, Software and Datasets", *IEEE Journal on Selected Areas of Communications, Special issue on Measuring and Troubleshooting the Internet*, Vol. 6, pp. 1889–1903, Jun, 2016 [PDF]
- [10] Espinet, Francois, Jounblatt, Diana, Rossi, Dario, "Framework, Models and Controlled Experiments of Network Troubleshooting", *Elsevier Computer Networks*, Vol. 107, pp. 36-54, Jun, 2016 [PDF]
- [9] Bocchi, Enrico, Safari Khatouni, Ali, Traverso, Stefano, Finamore, Alessandro, Munafo, Maurizio, Mellia, Marco, Rossi, Dario, "Statistical Network Monitoring: Methodology and Application to Carrier-Grade NAT", *Elsevier Computer Networks*, Vol. 107, Jun, 2016 [PDF]
- [8] Araldo, Andrea, Martignon, Fabio, Rossi, Dario, "Representation Selection Problem: Optimizing Video Delivery through Caching", *IFIP Networking*, May, 2016 [PDF]
- [7] Tortelli, Michele, Rossi, Dario, Boggia, Gennaro, Grieco, Luigi Alfredo, "ICN software tools: survey and cross-comparison", *Elsevier Simulation Modelling Practice and Theory*, Vol. 63, pp. 23–46, Apr, 2016 [PDF]
- [6] Giordano, Danilo, Cicalese, Danilo, Finamore, Alessandro, Mellia, Marco, Munafo, Maurizio, Jounblatt, Diana, Rossi, Dario, "A First Characterization of Anycast Traffic from Passive Traces", *IFIP workshop on Traffic Monitoring and Analysis (TMA)*, Apr, 2016 [PDF]
- [5] Bocchi, Enrico, De Cicco, Luca, Rossi, Dario, "Web QoE: Moving beyond Google's SpeedIndex", *Finalist at the IEEE INFOCOM Innovation Challenge*, Apr, 2016 ★[PDF]
- [4] Bocchi, Enrico, De Cicco, Luca, Mellia, Marco, Rossi, Dario, "HTTP/2 vs the Users: The Good, The Bad and The Ugly (Director's Cut)", *Technical Report*, Apr, 2016 [PDF]
- [3] Michele Tortelli, Dario Rossi, Emilio Leonardi, "Model-Graft: Accurate, Scalable and Flexible Analysis of General Cache Networks", *Tech. Rep.*, , 2016 [PDF]
- [2] Trevisan, Martino, Finamore, Alessandro, Mellia, Marco, Munafo, Maurizio, Rossi, Dario, "DPDKStat: 40Gbps Statistical Traffic Analysis with Off-the-Shelf Hardware", *Tech. Rep.*, , 2016 [PDF]
- [1] Cicalese, Danilo, Jounblatt, Diana, Rossi, Dario, Buob, Marc-Olivier, Auge, Jordan, Friedman, Timur, "Latency-Based Anycast Geolocalization: Algorithms, Software and Datasets (Extended Technical Report)", *Tech. Rep.*, , 2016 [PDF]
- 2015:** [12] Cicalese, Danilo, Auge, Jordan, Jounblatt, Diana, Friedman, Timur, Rossi, Dario, "Characterizing IPv4 Anycast Adoption and Deployment", *ACM CoNEXT, awarded the IRTF Applied Network Research Prize at IETF96, Heidelberg*, Dec, 2015 ★[PDF]
- [11] Schaub, Alexander, Rossi, Dario, "Design and Analysis of an Improved BitMessage Anti-spam Mechanism", *IEEE P2P'XIV*, Sep, 2015 [PDF]
- [10] R. Mansilha, L. Saino, M. Barcellos, M. Gallo, E. Leonardi, D. Perino, D. Rossi, "Hierarchical Content Stores in High-speed ICN Routers: Emulation and Prototype Implementation", *ACM SIGCOMM Conference on Information-Centric Networking (ICN'15)*, San Francisco, CA, Sep, 2015 [PDF]
- [9] Bocchi, Enrico, Safari, Ali, Traverso, Stefano, Finamore, Alessandro, Di Gennaro, Valeria, Mellia, Marco, Munafo, Maurizio, Rossi, Dario, "Impact of Carrier-Grade NAT on Web Browsing", *6th International Workshop on TRaffic Analysis and Characterization (TRAC)*, Best paper award, Aug, 2015 ★[PDF]
- [8] Spina, Michele, Rossi, Dario, Sozio, Mauro, Maniu, Silviu, Cautis, Bogdan, "Snooping Wikipedia Vandals with MapReduce", *IEEE ICC, London, UK*, Jun, 2015 [PDF]
- [7] Rossi, D. et al., "The mPlane distributed measurement infrastructure and its reference implementation", *Exhibition at EuCNC'15*, Jun, 2015 [PDF]
- [6] Espinet, Francois, Jounblatt, Diana, Rossi, Dario, "Zen and the art of network troubleshooting: a hands on experimental study", *Traffic Monitoring and Analysis (TMA'15)*, Barcellona, Spain, Apr, 2015 [PDF]

- [5] Cicalese, Danilo, Joulblatt, Diana, Rossi, Dario, Buob, Marc-Olivier, Auge, Jordan, Freeman, Timur, "A Fistful of Pings: Accurate and Lightweight Anycast Enumeration and Geolocation", *IEEE INFOCOM, Hong Kong, China*, Apr, 2015 [PDF]
- [4] Cicalese, Danilo, Joulblatt, Diana, Rossi, Dario, Buob, Marc-Olivier, Auge, Jordan, Friedman, Timur, "A Lightweight Anycast Enumeration and Geolocation", *IEEE INFOCOM, Demo Session, Hong Kong, China*, Apr, 2015 [PDF]
- [3] Mazloun, Riad, Auge, Jordan, Rossi, Dario, Friedman, Timur, "Errors Announcing 32-bit ASNs in BGP Routes", *11th International Conference on Design of Reliable Communication Networks (DRCN'15), Extended Abstract, Kansas City, USA*, Mar, 2015 [PDF]
- [2] Cicalese, Danilo, Auge, Jordan, Joulblatt, Diana, Rossi, Dario, Friedman, Timur, "Anycast census and geolocation", *7th Workshop on Active Internet Measurements (AIMS 2015), San Diego, CA*, Mar, 2015 [PDF]
- [1] Araldo, A., Rossi, D., Martignon, F., "Cost-aware caching: Caching more (costly items) for less (ISPs operational expenditures)", *IEEE Transactions on Parallel and Distributed Systems*, Vol. to appear, 2015 [PDF]
- 2014:** [23] A. Araldo, M. Mangili, F. Martignon, D. Rossi, "Cost-aware caching: optimizing cache provisioning and object placement in ICN", *IEEE Globecom, Austin, Texas*, Dec, 2014 [PDF]
- [22] Araldo, Andrea, Rossi, Dario, Martignon, Fabio, "Design and Evaluation of Cost-aware Information Centric Routers", *1st ACM SIGCOMM Conference on Information-Centric Networking (ICN-2014), Paris, France*, Sep, 2014 [PDF]
- [21] Rossini, Giuseppe, Rossi, Dario, "Coupling caching and forwarding: Benefits, analysis, and implementation", *1st ACM SIGCOMM Conference on Information-Centric Networking (ICN-2014), Paris, France*, Sep, 2014 [PDF]
- [20] Imbrenda, Claudio, Muscariello, Luca, Rossi, Dario, "Analyzing Cacheable Traffic in ISP Access Networks for Micro CDN applications via Content-Centric Networking", *1st ACM SIGCOMM Conference on Information-Centric Networking (ICN-2014), Paris, France*, Sep, 2014 [PDF]
- [19] Imbrenda, Claudio, Muscariello, Luca, Rossi, Dario, "Analyzing Cacheability in the Access Network with HACKSAW", *1st ACM SIGCOMM Conference on Information-Centric Networking (ICN-2014), Demo Session, Paris, France*, Sep, 2014 [PDF]
- [18] Tortelli, Michele, Rossi, Dario, Boggia, Gennaro, Grieco, Luigi Alfredo, "CCN Simulators: Analysis and Cross-Comparison", *1st ACM SIGCOMM Conference on Information-Centric Networking (ICN-2014), Demo Session, Paris, France*, Sep, 2014 [PDF]
- [17] Andrea Araldo, Dario Rossi, "A per-Application Account of Bufferbloat: Causes and Impact on Users", *5th International Workshop on TRaffic Analysis and Characterization (TRAC), Best paper award, Nicosia, Cyprus*, Aug, 2014 ★[PDF]
- [16] Tortelli, Michele, Rossi, Dario, Boggia, Gennaro, Grieco, Luigi Alfredo, "Pedestrian Crossing: The Long and Winding Road toward Fair Cross-comparison of ICN Quality", *International Workshop on Quality, Reliability, and Security in Information-Centric Networking (Q-ICN), Rhodes, Greece*, August, 2014 [PDF]
- [15] G. Rossini, D. Rossi, G. Garetto, E. Leonardi, "Multi-Terabyte and Multi-Gbps Information Centric Routers", *IEEE INFOCOM, Toronto, Canada*, Apr, 2014 [PDF]
- [14] S. Colabrese, D. Rossi, M. Mellia, "Aggregation of statistical data from passive probes: Techniques and best practices", *Traffic Measurement and Analysis (TMA), London, UK*, Apr, 2014 [PDF]
- [13] Georges Nassopoulos, Dario Rossi, Francesco Gringoli, Lorenzo Nava, Maurizio Dusi, Pedro Maria Santiago del Rio, "Flow management at multi-Gbps: tradeoffs and lessons learned", *Traffic Measurement and Analysis (TMA)*, Apr, 2014 [PDF]
- [12] Dario Rossi, Guilhem Pujol, Xiao Wang, Fabien Mathieu, "Peeking Through the BitTorrent Seedbox Hosting Ecosystem", *Traffic Measurement and Analysis (TMA)*, Apr, 2014 [PDF]
- [11] S. Colabrese, D. Rossi, M. Mellia, "Scalable accurate consolidation of passively measured statistical data", *Passive and Active Measurement (PAM), Extended Abstract, Los Angeles, USA*, March, 2014 [PDF]
- [10] P. Casoria, D. Rossi, J. Auge, Marc-Olivier Buob, T. Friedman, A. Pescapé, "Distributed active measurement of Internet queuing delays", *Passive and Active Measurement (PAM), Extended Abstract, Los Angeles, USA*, March, 2014 [PDF]
- [9] R. Mazloun, M.-O. Buob, J. Auge, B. Baynat, T. Friedman, D. Rossi, "Violation of Interdomain Routing Assumptions", *Passive and Active Measurement (PAM), Los Angeles, USA*, March, 2014 [PDF]
- [8] Claudio Testa, Dario Rossi, "Delay-based congestion control: Flow vs. BitTorrent swarm perspectives", *Computer Networks*, Vol. 60, pp. 115 – 128, Feb, 2014 [PDF]

- [7] YiXi Gong,Dario Rossi,Claudio Testa,Silvio Valenti,Dave Taht, "Fighting the bufferbloat: on the coexistence of AQM and low priority congestion control (extended version)", *Computer Networks*, Vol. 65, pp. 255 – 267, , 2014 [PDF]
- [6] Brian Trammell,Pedro Casas,Dario Rossi,Arian Bar,Zied Ben-Houidi,Ilias Leontiadis,Tivadar Szemethy,Marco Mellia, "mPlane: an Intelligent Measurement Plane for the Internet", *IEEE Communications Magazine, Special Issue on Monitoring and Troubleshooting Multi-domain Networks using Measurement Federations*pp. 148-156, 05, 2014 [PDF]
- [5] D. Rossi, "Anycast enumeration and geolocation: ", , 2014, [PDF]
- [4] D. Rossi and G. Rossini, "Method for managing packets in a network of Information Centric Networking (ICN) nodes", , , [PDF]
- [3] Giuseppe Rossini and Dario Rossi and Michele Garetto and Emilio Leonardi, "Information Centric Networking (ICN) router", , , [PDF]
- [2] D. Rossi,G. Rossini, "Method for managing packets in a network of Information Centric Networking (ICN) nodes", *Patent EPO14305866.7, US10530893B2*
- [1] Giuseppe Rossini,Dario Rossi,Michele Garetto,Emilio Leonardi, "Information Centric Networking (ICN) router", *Patent EPO14305639.8, WO EP US JP EP2940950B1*
- 2013: [20] C. Chirichella,D. Rossi,C. Testa,T. Friedman,A. Pescape, "Passive bufferbloat measurement exploiting transport layer information", *IEEE GLOBECOM*, Dec, 2013 [PDF]
- [19] A. Araldo, D. Rossi, "Dissecting Bufferbloat: Measurement and Per-Application Breakdown of Queueing Delay", *ACM CoNEXT'13, Student Workshop*, Dec, 2013 [PDF]
- [18] Gong, YiXi,Rossi, Dario,Leonardi, Emilio, "Modeling the interdependency of low-priority congestion control and active queue management", *The 25th International Teletraffic Congress (ITC25), Runner-up for Best Paper Award*, Sep, 2013 ★[PDF]
- [17] Walter Bellante,Rosa Vilardi,Dario Rossi, "On Netflix catalog dynamics and caching performance", *IEEE CAMAD, Berlin, Germany*, Sep, 2013 [PDF]
- [16] C. Testa,D. Rossi,A. Rao,A. Legout, "Data Plane Throughput vs Control Plane Delay: Experimental Study of BitTorrent Performance", *IEEE P2P'XIII, Trento, Italy*, Sep, 2013 [PDF]
- [15] D. Rossi,Y. Nicolas,D. Wolff,A. Finamore, "I tube, YouTube, P2PTube: assessing ISP benefits of peer-assisted caching of YouTube content", *IEEE P2P'XIII, Trento, Italy*, Sep, 2013 [PDF]
- [14] G. Carofiglio, L. Muscariello, D. Rossi, C. Testa, S. Valenti, "Rethinking low extra delay backround transport protocols", *Elsevier Computer Networks*, Vol. 57, pp. 1838–1852, june, 2013 [PDF]
- [13] Chiocchetti, Raffaele,Rossi, Dario,Rossini, Giuseppe, "ccnSim: an Highly Scalable CCN Simulator", *IEEE International Conference on Communications (ICC)*, Jun, 2013 [PDF]
- [12] C. Chirichella,D. Rossi, "To the Moon and back: are Internet bufferbloat delays really that large", *IEEE INFOCOM Workshop on Traffic Measurement and Analysis (TMA'13), Turin, Italy*, April 14-19, 2013 [PDF]
- [11] Y. Gong,D. Rossi,C. Testa,S. Valenti,D. Taht, "Fighting the bufferbloat: on the coexistence of AQM and low priority congestion control", *IEEE INFOCOM Workshop on Traffic Measurement and Analysis (TMA'13), Turin, Italy*, April 14-19, 2013 [PDF]
- [10] C. Chirichella,D. Rossi,C. Testa,T. Friedman,A. Pescape, "Remotely Gauging Upstream Bufferbloat Delays", *Passive and Active Measurement (PAM), Extended Abstract, Hong Kong, China*, March 18-19, 2013 [PDF]
- [9] Dario Rossi,Paolo Veglia,Matteo Sammarco,Federico Larroca, "ModelNet-TE: An emulation tool for the study of P2P and Traffic Engineering interaction dynamics", *Springer Peer-to-peer Networking and Applications (PPNA)*, Vol. 6, pp. 194-212, , 2013 [PDF]
- [8] Silvio Valenti,Dario Rossi,Alberto Dainotti,Antonio Pescape,Alessandro Finamore,Marco Mellia, "Reviewing Traffic Classification", in "Data Traffic Monitoring and Analysis: From measurement, classification and anomaly detection to Quality of Experience," Ernst Biersack, Christian Callegari, Maja Matijasevic, *Springer (LNCS 7754), Heidelberg, Germany*, 2013, [PDF]
- [7] R. Chiocchetti, D. Perino, G. Carofiglio, D. Rossi, G. Rossini, "INFORM: a Dynamic Interest Forwarding Mechanism for Information Centric Networking", *ACM SIGCOMM Worskhop on Information-Centric Networking (ICN), Hong Kong, China*, , 2013 [PDF]
- [6] Giuseppe Rossini,Dario Rossi,Christophe Betoule,Remi Clavier,Gilles Thouenon, "FIB Aplasia through Probabilistic Routing and Autoforwarding", *Elsevier Computer Networks*, Vol. 57, pp. 2802–2816, , 2013 [PDF]
- [5] D. Perino and G. Carofiglio and D. Rossi and G. Rossini, "Dynamic Interest Forwarding Mechanism for Information Centric Networking", , , [PDF]

- [4] D. Perino and G. Carofiglio and R. Chiocchetti and D. Rossi and G. Rossini, "Device and method for organizing forwarding information in nodes of a content centric networking", , , [PDF]
- [3] D. Perino,G. Carofiglio,D. Rossi,G. Rossini, "Dynamic Interest Forwarding Mechanism for Information Centric Networking", *Patent EPO13306124.2, EP2835942B1*
- [2] D. Perino,G. Carofiglio,R. Chiocchetti,D. Rossi,G. Rossini, "Device and method for organizing forwarding information in nodes of a content centric networking", *Patent EPO13161714.4, EP2785014A1*
- [1] Giuseppe Rossini,Dario Rossi, "Evaluating CCN multi-path interest forwarding strategies", *Elsevier Computer Communication, SI on Information Centric Networking, Vol. 36, pp. 771-778, Avril, 2013* [PDF]
- 2012: [16] Y. Gong, D. Rossi, C. Testa, S. Valenti,D. Taht, "Interaction or Interference: can AQM and Low Priority Congestion Control Successfully Collaborate", *ACM CoNEXT'12 Student Workshop*, Dec, 2012 [PDF]
- [15] Davide Tammaro, Silvio Valenti, Dario Rossi, Antonio Pescape, "Exploiting packet sampling measurements for traffic characterization and classification", *International Journal of Network Management*pp. 451-476, Nov, 2012 [PDF]
- [14] P.M. Santiago del Rio,D. Rossi,F. Gringoli,L. Nava,L. Salgarelli,J. Aracil, "Wire-Speed Statistical Classification of Network Traffic on Commodity Hardware", *ACM SIGCOMM Internet Measurement Conference (IMC)*, Nov, 2012 [PDF]
- [13] G. Rossini, D. Rossi, "A dive into the caching performance of Content Centric Networking", *IEEE 17th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD'12)*, Sep, 2012 [PDF]
- [12] Chiara Chirichella, Dario Rossi, Claudio Testa, Timur Friedman, Antonio Pescape, "Inferring the buffering delay of remote BitTorrent peers under LEDBAT vs TCP", *IEEE P2P'XII*, Sep, 2012 [PDF]
- [11] Bianzino, Aruna Prem,Raju, Anand,Rossi, Dario, "Power profiling the internet core: A sensitivity analysis", in " ", Naima Kaabouch and Wen-Chen Hu, , 2012, [PDF]
- [10] G. Rossini,D. Rossi, "Large scale simulation of CCN networks", *Algotel 2012, La Grande Motte, France*, May, 2012 [PDF]
- [9] C. Testa,D. Rossi,A. Rao,A. Legout, "Experimental Assessment of BitTorrent Completion Time in Heterogeneous TCP/uTP swarms", *Traffic Measurement and Analysis (TMA) Workshop at Passive and Active Measurement (PAM)*, Wien, AU, March 12-14, 2012 [PDF]
- [8] D. Rossi,G. Rossini, "On sizing CCN content stores by exploiting topological information", *IEEE INFOCOM, NOMEN Workshop, Orlando, FL*, March 25-30, 2012 [PDF]
- [7] Dario Rossi, "A dive into CCN\* caching performance", *Talk at IETF83, ICNRG meeting*, Mar. 31, 2012 [PDF]
- [6] Dario Rossi, "Traffic classification under sampling", *Talk at IETF83, NMRG Workshop*, Mar. 28, 2012 [PDF]
- [5] A. P. Bianzino, A. K. Raju, D. Rossi, "Energy Consumption in the Internet Core: a Sensitivity Analysis", in "Sustainable Green Computing: Practices, Methodologies and Technologies," K. Naima and W. Chen, *IGI Global, Hershey, Pennsylvania (USA)*, 2012, [PDF]
- [4] Paolo Veglia, Dario Rossi, "Performance evaluation of P2P-TV diffusion algorithms under realistic settings", *Springer Peer-to-peer Networking and Applications (PPNA)*, Vol. 6, pp. 26-45, , 2012 [PDF]
- [3] C. Betoule, T. Bonald, R. Clavier, D. Rossi, G. Rossini,G. Thouenon, "Adaptive Probabilistic Flooding for Multi-path Routing", *IFIP NTMS, Best paper award*, , 2012 ★[PDF]
- [2] Aruna Prem Bianzino, Jean-Louis Rougier, Claude Chaudet, Dario Rossi, "The Green-Game: Accounting for Device Criticality in Resource Consolidation for Backbone IP Networks", *Strategic Behavior and the Environment, SI on ICT-based strategies for environmental conflicts*, , 2012 [PDF]
- [1] Raffaele Chiocchetti,Dario Rossi,Giuseppe Rossini,Giovanna Carofiglio,Diego Perino, "Exploit the known or explore the unknown: Hamlet-like doubts in ICN", *ACM SIGCOMM, ICN Workshop*, , 2012 [PDF]
- 2011: [13] Aruna Prem Bianzino,Claude Chaudet,Dario Rossi,Jean-Louis Rougier,Stefano Moretti, "The Green-Game: Striking a Balance between QoS and Energy Saving", *23rd International Teletraffic Congress (ITC23)*, September 6-8, 2011 [PDF]
- [12] C. Testa,D. Rossi, "The impact of uTP on BitTorrent completion time", *IEEE Peer to Peer (P2P'11)*, Kyoto, Japan, September, 2011 [PDF]
- [11] S. Valenti,D. Rossi, "Fine-grained behavioral classification in the core: the issue of flow sampling", *IEEE International Workshop on TRaffic Analysis and Classification (TRAC'11)*, Istanbul, Turkey, 5-9 July, 2011 [PDF]



- [10] S. Valenti, D. Rossi, "Identifying key features for P2P traffic classification", *IEEE International Conference on Communications (ICC'11), Kyoto, Japan*, 5-9 June, 2011 [PDF]
- [9] A. Finamore, M. Mellia, M. Meo, M. Munafo, D. Rossi, "Experiences of Internet Traffic Monitoring with Tstat", *IEEE Network Magazine, Special Issue on Network Traffic Monitoring and Analysis*, May, 2011 [PDF]
- [8] P. Bermolen, M. Mellia, M. Meo, D. Rossi, S. Valenti, "Abacus: Accurate, Fine-Grained Classification of P2P-TV Traffic", *Elsevier Computer Networks*, 1394-1411, April, 2011 [PDF]
- [7] P. Veglia, D. Rossi, "Assessing the impact of signaling on the QoE of push-based P2P-TV diffusion algorithms", *4th IFIP International Conference on New Technologies, Mobility and Security (NTMS'11), Paris, France*, 7-10 February, 2011 [PDF]
- [6] A. Raju, A. P. Bianzino, D. Rossi, "Greening the Internet: Measuring Web Power Consumption", *IEEE ITProfessional*, Jan, 2011 [PDF]
- [5] Bianzino, Aruna Prem, Raju, Anand Kishore, Rossi, Dario, "Apples-to-apples: a framework analysis for energy-efficiency in networks", *SIGMETRICS Perform. Eval. Rev.*, Vol. 38, pp. 81-85, January, 2011 [PDF]
- [4] A. P. Bianzino, C. Chaudet, J. L. Rougier, D. Rossi, "A Survey of Green Networking Research", *IEEE Communications Surveys & Tutorials (to appear)*, 2011 [PDF]
- [3] D. Rossi, G. Rossini, "Caching performance of content centric networks under multi-path routing (and more): ", 2011, [PDF]
- [2] D. Rossi, "A crash course on LEDBAT, the new BitTorrent congestion control algorithm: ", 2011, [PDF]
- [1] E. Alessandria, L. Muscariello, D. Rossi, "ModelNet-TE: An emulation tool for the study of P2P and Traffic Engineering interaction dynamics: ", 2011, [PDF]
- 2010: [23] G. Carofiglio, L. Muscariello, D. Rossi, S. Valenti, "The quest for LEDBAT fairness", *IEEE Globecom'10, Miami, FL, USA*, December 6-10, 2010 [PDF]
- [22] Alessandro Finamore, Marco Mellia, Michela Meo, Dario Rossi, Silvio Valenti, "Peer-to-peer traffic classification: exploiting human communication dynamics", *IEEE Globecom'10, Demo Session, Miami, FL, USA*, December 6-10, 2010 [PDF]
- [21] Aruna Prem Bianzino, Claude Chaudet, Federico Larroca, Dario Rossi, Jean-Louis Rougier, "Energy-Aware Routing: a Reality Check", *IEEE Globecom Workshop on Green Communications (Green-Com'10), Miami, FL, USA*, December 6-10, 2010 [PDF]
- [20] Dario Rossi, "Peer-2-peer networking: the Dawn of the Homo Interconnexus Era", *Universite Pierre et Marie Curie (UPMC)*, December, 2010 [PDF]
- [19] A. Finamore, M. Mellia, M. Meo, D. Rossi, "KISS: Stochastic Packet Inspection Classifier for UDP Traffic", *IEEE Transactions on Networking*, Vol. 18, No. 5, pp. 1505 - 1515, October, 2010 [PDF]
- [18] G. Carofiglio, L. Muscariello, D. Rossi, C. Testa, "A hands-on Assessment of Transport Protocols with Lower than Best Effort Priority", *35th IEEE Conference on Local Computer Networks (LCN'10), Denver, CO, USA*, October 10-14, 2010 [PDF]
- [17] A. Pescapé, D. Rossi, D. Tammara, S. Valenti, "On the impact of sampling on traffic monitoring and analysis", *Proceedings of the 22nd International Teletraffic Congress (ITC22), Amsterdam, The Netherlands*, September 7 - 9, 2010 [PDF]
- [16] Dario Rossi, "Energy-Aware Networks: a Tutorial on Green Networking", *IEEE Networks 2010, Warsaw, Poland*, September 27-30, 2010 [PDF]
- [15] D. Rossi, C. Testa, S. Valenti, L. Muscariello, "LEDBAT: the new BitTorrent congestion control protocol", *International Conference on Computer Communication Networks (ICCCN'10), Zurich, Switzerland*, August 2-5, 2010 [PDF]
- [14] D. Rossi, S. Valenti, "Fine-grained traffic classification with Netflow data", *ACM IWCMC 2010, 1st International Workshop on TRaffic Analysis and Classification (TRAC), Caen France*, June 28 - July 2, 2010 [PDF]
- [13] A. Finamore, M. Mellia, M. Meo, M. Munafo, D. Rossi, "Live traffic monitoring with Tstat: capabilities and experiences", *8th International Conference on Wired/Wireless Communication (WWIC'10), Springer LNCS 6074, Invited Paper, Lulea, Sweden*, June 1 - 3, 2010 [PDF]
- [12] Aruna Prem Bianzino, Anand Raju, Dario Rossi, "Apple-to-Apple: A Common Framework for Energy-Efficiency in Networks", *ACM SIGMETRICS, GreenMetrics workshop, New York*, June 14-18, 2010 [PDF]
- [11] G. La Mantia, D. Rossi, A. Finamore, M. Mellia, M. Meo, "Stochastic Packet Inspection for TCP Traffic", *IEEE International Conference on Communications (ICC'10), Cape Town, South Africa*, May, 2010 [PDF]
- [10] D. Rossi, C. Testa, S. Valenti, "Yes, we LEDBAT: Playing with the new BitTorrent congestion control algorithm", *Passive and Active Measurement (PAM'10), Zurich, Switzerland*, April, 2010 [PDF]

- [9] A. Finamore, M. Mellia, M. Meo, D. Rossi, S. Valenti, "Kiss to Abacus: a comparison of P2P-TV traffic classifiers", *Traffic Measurement and Analysis (TMA'10)*, LNCS, Zurich, Switzerland, April, 2010 [PDF]
- [8] A.P.Bianzino, C. Chaudet, D. Rossi, J.-L. Rougier, "Energy-Awareness in Network Dimensioning: a Fixed Charge Network Flow Formulation", *ACM SIGCOMM eEnergy'10, Extended Abstract*, Passau, Germany, April 13 - 15, 2010 [PDF]
- [7] A. Horvath, M. Telek, D. Rossi, P. Veglia, D. Ciullo, A. G. da Rocha Neta, E. Leonardi, M. Mellia, "Network Awareness of P2P Live Streaming Applications: a Measurement Study", *IEEE Transactions on Multimedia*, Vol. 12, No. 1, pp. 54-63, Jan, 2010 [PDF]
- [6] D. Rossi, P. Veglia, "An Hybrid Approach to Assess the Network Awareness of P2P-TV Applications", *International Journal of Digital Multimedia Broadcasting, special issue on Network-Aware Peer-to-Peer (P2P) and Internet Video*, Vol. doi:10.1155/2010/826351, , 2010 [PDF]
- [5] D. Rossi, R. Fracchia, M. Meo, "On the quality of broadcast services in vehicular ad hoc networks", *Wiley Security and Communication Networks Journal, Special Issue on QoS Assured Wireless and Mobile Networks*, , 2010 [PDF]
- [4] R. Birke, M. Mellia, M. Petracca, D. Rossi, "Inspecting VoIP by Measurements from a Large ISP", *Wiley International Journal on Network Management, Special Issue on "Traffic Monitoring and Network Measurements: from Theory to Practice"*, , 2010 [PDF]
- [3] D. Rossi, E. Sottile, P. Veglia, "Black-box analysis of Internet P2P applications", *Peer-to-Peer Networking and Applications* pp. 1-19, , 2010 [PDF]
- [2] Dario Rossi, C. Testa, S. Valenti, P. Veglia, L. Muscariello, "News from the Internet congestion control world: ", , 2010, [PDF]
- [1] G. Carofiglio, L. Muscariello, D. Rossi, C. Testa, S. Valenti, "Rethinking low extra delay background transport protocols: ", , 2010, [PDF]
- 2009:** [12] D. Rossi, E. Sottile, "Sherlock: A framework for P2P traffic analysis", *IEEE P2P'09, Seattle, WA, USA*, September, 2009 [PDF]
- [11] D. Rossi, E. Sottile, S. Valenti, P. Veglia, "Gauging the network friendliness of P2P applications", *ACM SIGCOMM, Demo Session, Barcelona, Spain*, August, 2009 [PDF]
- [10] D. Rossi, M. Mellia, M. Meo, "Evidences Behind Skype Outage", *IEEE International Conference on Communications (ICC'09), Dresde, Germany*, June, 2009 [PDF]
- [9] L. Muscariello, D. Perino, D. Rossi, "Do Next Generation Networks need Path Diversity", *IEEE International Conference on Communications (ICC'09), Dresde, Germany*, June, 2009 [PDF]
- [8] A. Horvath, M. Telek, D. Rossi, P. Veglia, D. Ciullo, M. A. Garcia, E. Leonardi, M. Mellia, "Network Awareness of P2P Live Streaming Applications", *HOTP2P Workshop at IEEE IPDPS'09, Rome, Italy*, May, 2009 [PDF]
- [7] S. Valenti, D. Rossi, M. Meo, M. Mellia, P. Bermolen, "Accurate and Fine-Grained Classification of P2P-TV Applications by Simply Counting Packets", *Traffic Measurement and Analysis (TMA)*, Springer-Verlag LNCS 5537, May, 2009 [PDF]
- [6] A. Finamore, M. Mellia, M. Meo, D. Rossi, "KISS: Stochastic Packet Inspection", *Traffic Measurement and Analysis (TMA)*, Springer-Verlag LNCS 5537, May, 2009 [PDF]
- [5] S. Valenti, D. Rossi, M. Meo, M. Mellia, P. Bermolen, "An Abacus for P2P-TV traffic classification", *IEEE INFOCOM, Demo Session, Rio de Janeiro, Brazil*, April, 2009 [PDF]
- [4] P. Bermolen, D. Rossi, "Support Vector Regression for Link Load Prediction", *Elsevier Computer Networks*, Vol. 53, No. 2, pp. 191-202, February, 2009 [PDF]
- [3] D. Rossi, M. Mellia, M. Meo, "Understanding Skype Signaling", *Elsevier Computer Networks*, Vol. 53, No. 2, pp. 130-140, February, 2009 [PDF]
- [2] D. Bonfiglio, M. Mellia, M. Meo, D. Rossi, "Detailed Analysis of Skype Traffic", *IEEE Transaction on Multimedia*, Vol. 11, No. 1, pp. 117-127, January, 2009 [PDF]
- [1] A. Finamore, M. Mellia, M. Meo, D. Rossi, "KISS: Stochastic Packet Inspection for UDP Traffic Classification", in "RECIPE: Robust and Efficient Traffic Classification in IP Networks," A. Pescapè and C. Sansone Eds., *Fridericiana Editrice Universitaria, Napoli, Italy*, 2009, ISBN: 9788883380815 [PDF]
- 2008:** [15] P. Bermolen, D. Rossi, "Network Forecast with Support Vector Machines", *International Workshop on Traffic Management and Traffic Engineering for the Future Internet (FITraMen 08)*, Porto, Portugal, December, 2008 [PDF]
- [14] M. Mellia, M. Meo, L. Muscariello, D. Rossi, "Passive analysis of TCP anomalies", *Elsevier Computer Networks*, Vol. 52, No. 14, October, 2008 [PDF]
- [13] D. Rossi, S. Valenti, P. Veglia, D. Bonfiglio, M. Mellia, M. Meo, "Pictures from the Skype", *ACM Performance Evaluation Review (PER)*, Vol. 36, No. 2, pp. 83-86, September, 2008 [PDF]
- [12] D. Rossi, S. Valenti, P. Veglia, D. Bonfiglio, M. Mellia, M. Meo, "Pictures from the Skype", *ACM SIGMETRICS, Demo Competition, Annapolis, MD, USA*, June, 2008 [PDF]

- [11] D. Rossi, R. Fracchia, M. Meo, "VANETs: Why Beaconing at All", *IEEE International Conference on Communications (ICC'08), Beijing, China*, May, 2008 [PDF]
- [10] D. Bonfiglio, M. Mellia, M. Meo, N. Ritacca, D. Rossi, "Tracking Down Skype Traffic", *IEEE INFOCOM, Phoenix, AZ, USA*, April, 2008 [PDF]
- [9] E. Leonardi, M. Mellia, A. Horvath, L. Muscariello, S. Niccolini, D. Rossi, "Building a cooperative P2P-TV application over a Wise Network: the approach of the European FP-7 STREP NAPA-WINE", *IEEE Communication Magazine*, Vol. 64, No. 6, April, 2008 [PDF]
- [8] D. Rossi, M. Mellia, M. Meo, "Following Skype Signaling Footsteps", *IEEE QoS-IP, Venezia, Italy*, February, 2008 [PDF]
- [7] P. Bermolen, D. Rossi, "Support Vector Regression for Link Load Prediction", *IEEE QoS-IP, Venezia, Italy*, February, 2008 [PDF]
- [6] D. Rossi, M. Mellia, M. Meo, "A Detailed Measurement of Skype Network Traffic", *7th International Workshop on P2P Systems (IPTPS), Tampa Bay (FL)*, February, 2008 [PDF]
- [5] D. Rossi, M. Mellia, M. Meo, "Quando il PC diventa un telefono", *Il Sole 24 ore / Media 2000*, 2008 [PDF]
- [4] M. Perino and M. Mellia and D. Rossi and M. Meo, "Method and apparatus for detecting a single data flow in an aggregate packet data flow and for identifying the application generating said single data flow", , , [PDF]
- [3] M. Perino and M. Mellia and D. Rossi and M. Meo, "Method and apparatus for detecting vocal data flow in a packet data flow", , , [PDF]
- [2] M. Perino, M. Mellia, D. Rossi, M. Meo, "Method and apparatus for detecting a single data flow in an aggregate packet data flow and for identifying the application generating said single data flow", *Patent WO2008149203, US8339979B2*
- [1] M. Perino, M. Mellia, D. Rossi, M. Meo, "Method and apparatus for detecting vocal data flow in a packet data flow", *Patent WO2008075167, US20100214933A1*
- 2007:** [5] R. Birke, M. Mellia, M. Petracca, D. Rossi, "Understanding VoIP from Backbone Measurements", *IEEE INFOCOM, Anchorage, Alaska, USA*, May, 2007 [PDF]
- [4] D. Bonfiglio, M. Mellia, M. Meo, D. Rossi, P. Tofanelli, "Revealing Skype Traffic: When Randomness Plays with You", *ACM SIGCOMM Computer Communication Review*, Vol. 37, No. 4, pp. 37-48, 2007 [PDF]
- [3] D. Rossi, C. Casetti, C.F. Chiasserini, "Some Study on Communication Performance", in "Sensor Network and Configuration," N.P. Mahalik Ed., *Springer-Verlag, Berlin, Germany*, 2007, [PDF]
- [2] M. Perino and M. Mellia and D. Rossi and M. Meo, "Metodo per rilevare un singolo flusso dati all'interno di un flusso aggregato di dati a pacchetti e per identificare l'applicazione generatrice del singolo flusso dati", , , [PDF]
- [1] M. Perino, M. Mellia, D. Rossi, M. Meo, "Metodo per rilevare un singolo flusso dati all'interno di un flusso aggregato di dati a pacchetti e per identificare l'applicazione generatrice del singolo flusso dati", *Patent MI2007A001141*
- 2006:** [8] R. Fracchia, M. Meo, D. Rossi, "VANETs: To Beacon or Not To Beacon", *Autonet'06 Workshop at IEEE Globecom'06, San Francisco, CA, USA*, November, 2006 [PDF]
- [7] L. Muscariello, M. Meo, M. Mellia, D. Rossi, "Passive Measurement of TCP Anomalies", *IEEE International Conference of Communication (ICC'06), Istanbul, Turkey*, June, 2006 [PDF]
- [6] D. Rossi, M. Mellia, "Real-Time TCP/IP Analysis with Common Hardware", *IEEE International Conference of Communication (ICC'06), Istanbul, Turkey*, June, 2006 [PDF]
- [5] R. Fracchia, M. Meo, D. Rossi, "On the Impact of Traffic Models on Inter-vehicular Broadcast Communication", *IEEE MedHocNet 2006, Lipari, Italy*, June, 2006 [PDF]
- [4] R. Fracchia, M. Meo, D. Rossi, "Avoiding broadcast storms in inter-vehicular warning delivery services", *6th International Workshop on Applications and Services in Wireless Networks (ASWN'06), Berlin, Germany*, April, 2006 [PDF]
- [3] R. Fracchia, M. Meo, D. Rossi, "Knowing Vehicle Location HELPs Avoiding Broadcast Packets Storm", *3rd IEEE International Workshop on Mobile Peer-to-Peer Computing (MP2P'06) at IEEE PerComm'06, Pisa, Italy*, March, 2006 [PDF]
- [2] M. Perino and M. Mellia and D. Rossi and M. Meo, "Metodo ed apparato per rilevare flusso dati vocale in un flusso dati a pacchetti", , , [PDF]
- [1] M. Perino, M. Mellia, D. Rossi, M. Meo, "Metodo ed apparato per rilevare flusso dati vocale in un flusso dati a pacchetti", *Patent MI2006A002417*

<b>2005:</b> [3]	D. Rossi, M. Mellia, "Persistent Gbps Link Monitoring with Tstat", <i>2nd EuroNGI Workshop on New Trends in Modelling, Quantitative Methods and Measurements (WP IA.8.1)</i> , Aveiro, Portugal, November, 2005 [PDF]
[2]	D. Rossi, I. Stoica, "Gambling Heuristics on a Chord Ring", <i>IEEE Globecom'05</i> , St Luis, MO, USA, November, 2005 [PDF]
[1]	D. Rossi, "Traffic at the Network Edge: Sniff, Analyze, Act", <i>PhD Thesis</i> , M. Ajmone Marsan Tutor, Politecnico di Torino, April, 2005 [PDF]
<b>2004:</b> [2]	D. Rossi, L. Muscariello, M. Mellia, "On the properties of TCP Flow Arrival Process", <i>IEEE International Conference of Communication (ICC'04)</i> , Paris, France, June, 2004 [PDF]
[1]	D. Rossi, P. Giaccone, L. Muscariello, M. Mellia, "The performance of Switch under Real Traffic", <i>IEEE High Performance Switching and Routing (HPSR'04)</i> , Phoenix, AZ, USA, April, 2004 [PDF]
<b>2003:</b> [1]	D. Rossi, C. Casetti, M. Mellia, "User Patience and the Web: a Hands-on Investigation", <i>IEEE Globecom'03</i> , San Francisco, CA, USA, December, 2003 [PDF]
<b>2002:</b> [1]	D. Rossi, C. Casetti, M. Mellia, "A Simulation Study of Web Traffic over DiffServ Networks", <i>IEEE Globecom'02</i> , Taipei, TW, November, 2002 [PDF]
<b>2001:</b> [1]	D. Rossi, "A Simulation Study of Web Traffic over DiffServ Networks", <i>M.Sc. Thesis published in the International Archives</i> , Politecnico di Torino, November, 2001 [PDF]
Further details	
by date	<a href="https://nonsns.github.io/drossi/publications/date/">https://nonsns.github.io/drossi/publications/date/</a>
by type	<a href="https://nonsns.github.io/publications/type/">https://nonsns.github.io/publications/type/</a>
by project	<a href="https://nonsns.github.io/publications/project/">https://nonsns.github.io/publications/project/</a>
Award Winning	<a href="https://nonsns.github.io/publications/award/">https://nonsns.github.io/publications/award/</a>
Recent stuff	<a href="https://nonsns.github.io/publications/recent/">https://nonsns.github.io/publications/recent/</a>
Google scholar	<a href="http://scholar.google.com/citations?user=PP1W6HkAAAAJ">http://scholar.google.com/citations?user=PP1W6HkAAAAJ</a>
DBLP	<a href="http://dblp.uni-trier.de/pers/hd/r/Rossi:Dario">http://dblp.uni-trier.de/pers/hd/r/Rossi:Dario</a>