

Curriculum vitæ



Personal Information

Work experience

Jul 2019 – now

Employer

Main responsibilities

Nov 2018 – Jun 2019

Employer

Sep 2012 – Jan 2019

Employer

Main responsibilities

Oct 2016 – Oct 2018

Jan 2012 – Oct 2016

Oct 2006 – Dec 2011

Employer

Main responsibilities

Jan 2005 – Sep 2006

Employer

Main responsibilities

Aug 2003 – Aug 2004

Employer

Main responsibilities

Jan 2001 – Dec 2004

Employer

Main responsibilities

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

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

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](#)) that received several awards and attracted 8500+ citations, for an H-index of 45+ (Google Scholar)
- 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](#)): IETF Applied Network Research Prize (2016), Google Faculty Research Award (2015), 5 × IEEE INFOCOM Distinguished Member (2015-17, 2019, 2023)
- ★ *Paper awards* ([full list](#)): 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.

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](#))
- Responsible for several courses (RES203, RES212, RES224, RES240) at graduate and undergraduate levels, in French and English

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

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.

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

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

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.

Self-assessment
European level^(*)

French
English

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

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

Social skills

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

Scientific and Computer skills

- **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.** L^AT_EX, 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.

Sports and Interests

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

Driving licences

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

Academic CV

Awards

Academic awards

Extensive academic-style details concerning professional activities

Note: I am not listing internal Huawei awards. While I am proud of the distinctions I have received, company awards are not publicly accessible and so hard to verify with respect to academic awards.

- ★ Runner-up for Best paper award at Passive and Active Measurement (PAM) (2024)
- ★ Inducted ACM Distinguished Member for multi-disciplinary approaches and pioneering adoption of machine learning in networking research (2023)
- ★ Distinguished Member of the IEEE INFOCOM TPC (2023)
- ★ Runner up for Best paper award at ACM CoNEXT (2021)
- ★ Recipient 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 recipient 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 IEEE INFOCOM TPC (2015)
- ★ The research stage of Francois Espinent (X2011) at LINCOS 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

- 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

Participant	<ul style="list-style-type: none"> — RES101 Introduction aux réseaux de telecommunications <i>Telecom ParisTech, 6h - 2015</i> — GTM2 Groupe de travail Master M2 Recherche <i>Université Pierre et Marie Curie LIP6, 3h, French - 2010, 2011</i> — RES380 Expérimentation et étude de performance de technologies réseaux <i>Telecom ParisTech, 6h, English - 2007</i> — Wireless Sensor Networks seminar, Master in Wireless Systems and Related Technologies <i>Politecnico di Torino, 20h, English - 2005, 2006</i> — Wireless Sensor Network Professional training course <i>TEACH srl (V.S. Gregorio 34, Milan, Italy), 30h, Italian - 2005</i> — O6EJRBQ Introduzione alle reti telematiche <i>Politecnico di Torino, 20h, Italian - 2002</i> — 01EJVEB Laboratorio di Protocolli <i>Politecnico di Torino, 50h, Italian - 2002</i> — 01FOCEB Complementi di Laboratorio <i>Politecnico di Torino, 10h, Italian) - 2002</i> — ECDL European Computer Driving Licence <i>Ludwigh Informatica s.a.s. (V. Cernaia 31, 10100, Torino, Italy), 60h, Italian - 2001</i>
Supervision	
Subordinates	<i>Note: detailed information about subordinates in Huawei cannot be shared due to obvious business concerns, for which the terse description on the main part of this CV is considered sufficient</i>
PhD collaborations (ongoing)	<p><i>Note: I am no longer directly supervising PhDs, that I prefer to let closely follow by collaborators in Huawei and Academia, but I am still happily following their work at a technical level</i></p> <ul style="list-style-type: none"> — A. Nascita (visiting, 2024), co-advised by A. Pescape, Università di Napoli Federico II and J. Krolkowski, Huawei — A. Monterubbiano (visiting, 2023), co-advised by S. Pontarelli, Università di Roma la Sapienza and M. Gallo, Huawei — I. Guarini (visiting, 2022), co-advised by A. Pescape, Università di Napoli Federico II and A. Finamore, Huawei — W. Chao (CIFRE, started 2022), co-advised by P. Michiardi, EURECOM and A. Finamore, Huawei — M. Boffa (started 2021), co-advised by M. Mellia, Politecnico di Torino and Z. B. Houidi, Huawei — R. Vieira (started 2020), co-advised by M. Mellia, Politecnico di Torino and Z. B. Houidi, Huawei — R. Azorin (CIFRE, started 2020), co-advised by P. Michiardi, EURECOM and M. Gallo, Huawei — G. Sviridov (visiting, 2019), co-advised by P. Giaccone and A. Bianco, Politecnico di Torino
PhD Advisor (graduated)	<p><i>Note: Following the list of PhD I have been advising over the years at Telecom ParisTech, including visiting PhDs</i></p> <ul style="list-style-type: none"> — A. Putina (graduated Feb 2022), co-advised with M. Sozio, Telecom ParisTech — F. Salutari (graduated Nov 2021), co-advised with M. Sozio, Telecom ParisTech — T. Green (graduated 2021), co-advised with L. Iannone and A. Lambert, Orange — M. Enguehard (graduated May 2019), co-advised with R. Droms, Cisco — J. Samain (graduated Mar 2019), co-advised with G. Carofiglio, Cisco — D. Cicalese (graduated May 2018), co-advised with T. Friedman, UPMC — T. Zhang (visiting 2017), co-advised with Paolo Giaccone, Politecnico di Torino — E. Bocchi (graduated Apr 2017), co-advised with M. Mellia, Politecnico di Torino — C. Imbrenda (graduated Nov 2016), co-advised with L. Muscariello, Orange — A. Araldo (graduated Oct 2016), co-advised with F. Martignon, LRI — Y. Gong (graduated Mar 2016) — R. Mansilha (visiting 2015), co advised with M. Barcelo, Universidad federal do Rio Grande do Sul — M. Tortelli (visiting 2014), co-advised with G. Boggia, Politecnico di Bari — G. Rossini (graduated Feb 2014) — C. Testa (graduated Nov 2012) — M. Gallo (graduated Nov 2012), co-advised with L. Muscariello, Orange — P. M. Santiago del Rio (visiting 2012), co-advised with J. Aracil, Universidad Autonoma Madrid (UAM) — R. Vilardi (visiting 2012), co-advised with G. Boggia, Politecnico di Bari — P. Veglia (graduated Sep 2011) — S. Valenti (graduated Sep 2011) — P. Bermolen (graduated Feb 2010), co-advised with F. Baccelli, INRIA

- M. Crovella (Visiting Professor from Boston University, 2018) <https://www.cs.bu.edu/faculty/crovella/>
- R. Rejajé (Visiting Professor from University of Oregon, 2018) <https://ix.cs.uoregon.edu/~reza/>
- S. Pontarelli (Visiting Researcher from University of Rome Tor Vergata, 2017)
- L. De Cicco (Visiting Researcher from Politecnico di Bari, 2013-2014)
- J. Alcober (Visiting Researcher from Universitat Politècnica de Catalunya, 2008)

PostDocs

- T. Zhang (PostDoc, 2018-2019)
- D. Da Hora (PostDoc, 2017-2018)
- L. Linguaglossa (PostDoc, 2017-2019)
- M. Tortelli (PostDoc, 2015-2017)
- J. Auge (PostDoc, 2014-2015)
- D. Zeaiter Joumblatt (PostDoc, 2013-2015)

Engineers, MSc and BSc Interns

Note: Starting from 2020, I am no longer directly supervising MSc and BSc interns, but I am still happily following their work at a technical level

- 2021: M. Boffa, S. Nesic, W. Chao, D. M. Fernandez
- 2019: F. Spinelli
- 2018: V. Bruschi
- 2017: V. A. Krishna, A. Putina, F. Salutari
- 2016: G. Milotta, J. Ficapal, V. Martino,
- 2014: S. Giuffrida
- 2014: L. Bordone, D. Cicalese, V. Di Gennaro (★ Best paper award), F. Espinet (★ Awarded "Prix de stage" at Ecole Polytechnique)
- 2013: S. Colabrese G. Nassopoulos, S. D'Ambrosio, P. Casoria, P. Gu, A. Araldo (★ Best paper award)
- 2012: W. Bellante, M. Spina, R. Chiochetti, C. Chirichella
- 2010: D. Tammara, A. Raju Kishore, E. Alessandria, G. Rossini
- 2009: M. Sammarco, G. LaMantia, E. Sottile, A. Ktari
- 2008: A. Finamore
- 2007: M. Arujo Cardenas, D. Bonfiglio, N. Ritacca
- 2006: S. Ricci

Juries

HDR Jury

- Fabien Geyer, TU Munich (2021)
- Yassine Hadjadj-Aoul, University of Rennes 1 (2020)
- Gwendal Simon, Telecom Bretagne (2015)

PhD Jury

- Thomas Alfroy (Examiner, 2024)
- Thomas Alfroy (mi-parcours, 2023)
- Tom Barbette (Examiner, 2018)
- Luca Vassio (President, 2018)
- Zied Aouini (Reviewer, 2017)
- Nassima Bouzakaria (Examiner, 2017)
- Jonatan Krolkowski (mi-parcours, 2017)
- Walid Benchaita (President, 2016)
- Leonce Mekinda (President, 2016)
- Leonardo Linguaglossa (Examiner, 2016)
- Cesar Bernardini (Reviewer, 2015)
- Muhammad Faheem (Examiner, 2014)
- Ghida Ibrahim (President, 2014)
- Nathalia Rozhanova (mi-parcours, 2014)
- Tristan Groleat (2014)
- Nan Zhao (Examiner, 2014)
- Yasir Khan (mi-parcours, 2013)
- Stephane Wustner (mi-parcours, 2013)
- Nan Zhao (mi-parcours, 2013)
- Ahlem Reggani (mi-parcours, 2013)
- Nada Sbihi (mi-parcours, 2012)
- Ghida Ibrahim (mi-parcours, 2012)
- Felipe Mata Marcos (Reviewer, 2012)
- Alexandre Lung Yut Fong (Examiner, 2011)
- Diego Alberto (Examiner, 2010)
- Nouredine Boujnah (Examiner, 2010)
- Mauricio Andres Caceres Duran (Examiner, 2010)
- Valentina Martina (Examiner, 2010)
- Francesco Mininni (Examiner, 2009)
- Robert Birke (Examiner, 2009)
- Michele Petracca (Examiner, 2009)
- Davide Cuda (Examiner, 2009)

Editorial responsibilities

Journal Editorial Boards

- IEEE Transactions on Networks and Service Management (Associate Editor, ongoing)
- IEEE Transactions on Green Communications and Networking (Associate Editor, until 2019)
- IEEE Journal on Selected Areas in Communications (Associate Editor, Green Communications and Networking Series, until 2019)
- Elsevier Computer Networks Journal (Associate Editor, until 2019)

Journal Reviewer

Note: this is mostly an historical record of journal reviewing activities.

- IEEE Spectrum
- IEEE Networks
- IEEE Communication Magazine
- IEEE Transactions on Networking
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Network and Service Management
- IEEE Transactions on Circuits and Systems for Video Technology
- Elsevier Computer Networks Journal
- Elsevier Computer Communications
- Springer Peer-to-Peer Networking and Applications
- Springer Annals of Telecommunications
- Wiley Security and Communication Networks

Community service

Scientific seminar

I like regular seminars, they are food for the brain.

- When I joined Telecom Paris, I created the seminar of the INFRES department in 2008 and run it for 10 years, hosting over 300+ talks (see the full list)
- When I moved to Huawei, I again created a weekly seminar but immediately delegated the organization to Antoine Fressencourt, who's been handling all logistic aspects: the seminar is not openly accessible but we welcome external speakers.

Steering, Chairing and Advisory Boards

- General Co-Chair of **ACM CoNEXT'23**, December 2023, Paris, France
- General Chair of Huawei Global Connect, December 2023, Paris, France
- Member of the Advisory Board **DET department** of Politecnico di Torino, 2022-ongoing
- Chair of **ITC34 Panel on AI Native networking**, September 2022, Shenzhen, China
- General Chair of Huawei Global Connect, November 2022, Paris, France
- General Chair of Huawei Global Connect, November 2021 (virtual)
- General Chair of Huawei Global Connect, November 2020 (virtual)
- Workshop Co-Chair of **ACM CoNEXT'20**, December 2020, Barcellona, Spain.
- Best Paper Committee of **PAM'20** Passive and Active Measurement, March 2020, Oregon, US
- Award Committee of **ITC30 star award**, 2018–2020
- Program Chair of Huawei Global Connect, April 2019, Versailles, France
- Vice Chairman of the **International Teletraffic Conference** Steering committee, 2014–2022
- 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

2024	<ul style="list-style-type: none"> — ICNP'24, 32nd IEEE International Conference on Network Protocols (ICNP 2024), October 2024, Charleroi, Belgium — ICDCS'24, 44th IEEE International Conference on Distributed Computing Systems, July 2024, Jersey City, New Jersey, USA. — AAAI'24, 38th AAAI Conference on Artificial Intelligence (AAAI-24), February 2024, Vancouver, British Columbia
2023	<ul style="list-style-type: none"> — AAAI'23, 37th AAAI Conference on Artificial Intelligence, Feb 2023 — IEEE INFOCOM'23, 38th IEEE International Conference on Computer Communications, May 2022, Virtual Distinguished member of the Infocom TPC
2022	<ul style="list-style-type: none"> — ACM GNNET'22, Graph Neural Networking Workshop, Co-located with ACM CoNEXT 2022, Dec 2022, Rome, Italy — IEEE INFOCOM'22, 38th IEEE International Conference on Computer Communications, May 2022, Virtual — ITC34, International Teletraffic Congress, September 2022, Shenzhen, China
2021	<ul style="list-style-type: none"> — NetSys 2021, Conference on Networked Systems, Machine Learning in Networking workshop, March 2021, L��jbeck, Germany — IEEE INFOCOM'21, 38th IEEE International Conference on Computer Communications, April 2021, Virtual
2020	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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
 - **AINTEC 2012**
8th Asian Internet Engineering Conference (AINTEC) 2012, November 14-16, in Bangkok, Thailand.
 - **IEEE CAMAD 2012**
IEEE International Workshop on Computer-Aided Modeling Analysis and Design of Communication Links and Networks (CAMAD), Barcelona, Spain, 17-19 September 2012
 - **IEEE ISCC 2012** 17th IEEE International Symposium on Computer and Communications, Cappadocia, Turkey, July 1-4, 2012
 - **IEEE GCN 2012** IEEE ICC'12 Workshop on Green Communications and Networking, Ottawa, Canada, June 10-15 2012
 - **IEEE ICC 2012** IEEE International Conference on Communications, Ottawa, Canada, June 10-15 2012
 - **IEEE WCNC 2012 Workshop on Future Green Communications** IEEE Wireless Communications and Networking Conference (WCNC 2012), Workshop on Future Green Communications, Paris, France 1 April 2012
 - **ACM SAC 2012** The 27th Annual ACM Symposium on Applied Computing, Networking Track, March 25-29, 2012, Riva del Garda (Trento), Italy.
 - **IEEE INFOCOM 2012** The 30th IEEE International Conference on Computer Communications, Orlando, FL, 20-25 March 2012
 - **IEEE INFOCOM Workshop on Emerging Design Choices in Name-Oriented Networking (NOMEN'2012)** Co-located with the 30th IEEE International Conference on Computer Communications, Orlando, FL, 20-25 March 2012
 - **IEEE INFOCOM Workshop on Communications and Control for Sustainable Energy Systems (CCSES): Green Networking and Smart Grids** Co-located with the 30th IEEE International Conference on Computer Communications, Orlando, FL, 20-25 March 2012

- **TMA 2012** 4th COST TMA International Workshop on Traffic Monitoring and Analysis, colocated with Passive and Active Measurement (PAM 2012), Vienna, Austria, March 12-14, 2012
- **IEEE CCNC 2012** The 9th Annual IEEE Consumer Communications and Networking Conference, Las Vegas, NV, 7-14 January 2012
- 2011
 - **IEEE GLOBECOM 2011**, IEEE Global Communication Conference, Orlando, Texas, US, 5- 9 December, 2011,
 - **IEEE CSE 2011**, The 14th IEEE International Conference on Computational Science and Engineering, Dalian, China, 24-26 August 2011
 - **IEEE ISCC 2011**, IEEE International Symposium on Computer Communications, Corfu, Greece, June 28 - August 1, 2011,
 - **TMA 2011**, Third COST TMA International Workshop on Traffic Monitoring and Analysis, colocated with European Wireless 2011, Vienna, Austria, April 27, 2011
 - **IEEE ICC 2011**, IEEE International Conference on Communications, Kyoto, Japan, 5-9 June 2011
 - **IEEE International Workshop on Cross-Layer Operation Aided Multimedia Streaming**, colocated with the 73rd IEEE Vehicular Technology Conference (VTC2011-Spring), Budapest, Hungary, 15-18 May 2011,
 - **IEEE INFOCOM Workshop on Green Communications and Networking**, Co-located with IEEE INFOCOM 2011, Shanghai, China, 10-15 April 2011
- 2010
 - **IEEE GLOBECOM'10**, IEEE Global Communications Conference, Miami, FL, USA, 6-10 December 2010
 - **IEEE ISCC'10**, IEEE International Symposium on Computer Communications, Riccione, Italy, June 22 - 25, 2010
 - **IEEE ICC'10**, IEEE International Conference on Communications, Capetown, South Africa, 23-26 May, 2010
 - **TMA'10**, 2nd Traffic Monitoring and Analysis Workshop, colocated with Passive and Active Measurement Conference, Zurich, Switzerland, April 7, 2010,
- 2009
 - **IEEE ISCC'09**, International Symposium on Computers and Communications, Sousse, Tunisia, July 5 - 8, 2009,
 - **ITCSS-20**, 20th ITC Specialist Seminar (ITCSS-20), Hoi An, Viet Nam, 18-20 May 2009,
 - **TMA'09**, 1st Traffic Monitoring and Analysis Workshop, co-located with IFIP Networking 2009, Aachen, Germany, May 11-15, 2009,
 - **IEEE ICC'09**, IEEE International Conference on Communications, June 14-18, Dresden, Germany, 2009,
- 2008
 - **IEEE MP2P'08**, 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
 - **IEEE ICC'08**, IEEE International Conference on Communications, Wireless Networking Symposium, Beijing, China, 19-23 May 2008
 - **IEEE IT-NEWS'08**, 4th International Telecommunication NETworking WorkShop on QoS in Multiservice IP Networks, February 2008 in Venice, Italy
- 2007
 - **MoVeNet'07**, International Workshop on Mobile Vehicular Networks, October 12, 2007, Pisa, Italy (Co-Located with IEEE MASS 2007)
 - **IEEE IPCCC'07**, 26th IEEE International Performance Computing and Communications Conference, April 2007, New Orleans, Louisiana, USA

Project management

Research Projects

Project management at Telecom ParisTech:

- **NewNet@Paris** (2016-2018): Cisco's Chair "NETWORKS FOR THE FUTURE" at Telecom Paris-Tech (Lead D.Rossi)
- **KIC EIT ICT Labs** (2015): Virtual Data Plane for Software defined network Content (Lead D. Perino, Nokia)
- **FP7 IP mPlane** (2013-2015): A monitoring Plane for the Internet (Lead M. Mellia, Polito)
- **KIC EIT ICT Labs** (2012-2013): Smart Ubiquitous Content (Lead R. Lo Cigno, Trento)
- **Orange Labs CRE Grant** (2010-2012): Locarn++ (Lead D.Rossi)
- **ANR VERSO CONNET** (2011–2013): Content Oriented Networking (Lead G. Carofiglio, Alcatel Lucent Bell Labs)
- **Orange Labs CIFRE Grant** (2010-2012): M. Gallo PhD thesis.
- **Cost IC0703 Tma** (2008–2011): Traffic Monitoring and Analysis (Lead F. Ricciato, Ftw)
- **Eureka Celtic Trans** (2008–2010): Traffic Aware Network and Services (Lead D. Kofman, RAD)
- **Eureka Celtic Tiger2** (2008–2010): Together IP, GMPLS and Ethernet Reconsidered, Phase 2 (Lead L. Ciavaglia, Alcatel-Lucent)
- **Fp7 Strep Napa-Wine** (2007–2010): Network Aware P2P Application over Wise Networks (Lead E. Leonardi, Politecnico di Torino)
- **Eureka Celtic Tiger** (2006–2008): Together IP, GMPLS and Ethernet Reconsidered (Lead N. Le Sauze, Alcatel-Lucent). *Tiger received the Celtic Excellence Award in Gold.*

Previous project involvement:

- **Miur Prin Mimosa** (2005–2007): Misure sperimentali e Modelli di traffico dati multiServizio a pAcchetto (Lead Prof. A. Pattavina, Politecnico di Milano)
- **Miur Prin Famous** (2005–2007): Fluid Analytical Models Of aUtonomic Systems (Lead Prof. A. Lombardo, Università degli Studi di Catania)
- **EuroNGI JRA.S.13 Ipam** (2005–2006): Integration of Passive and Active Measurement Platforms (Lead Prof. R. Valadas, IT Aveiro)
- **Fp7 NoE EuroNGI** (2004–2006): Network of Excellence on the Next Generation Internet (Lead Prof D. Kofman, Telecom ParisTech)
- **Miur Prin Pattern** (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)
- **Miur Firb Tango** (2001–2003): Traffic models and Algorithms for Next Generation IP networks Optimization (Lead Prof. G. Prati, CNIT)

Patents portfolio

Patents: [P26]

Kevin FAUVEL, Yong ZHAO, Zigang CAO, Maolin CHEN, Fuxing CHEN, Dario ROSSI, "Traffic Classification with a Modifiable Ruleset", *Patent PCT/CN2023/080516*

[P25]

Alexis HUET, Jose Manuel NAVARRO, Dario ROSSI, "Identifying and locating change points in a time series of data values", *Patent PCT/EP2023/053192*

[P24]

Jonatan KROLIKOWSKI, Zied BEN HOUIDI, Fuxing CHEN, Dario ROSSI, "A data-driven WLAN topology-related KPIs query system and estimation method", *Patent PCT/EP2023/050709*

[P23]

Lixuan YANG, Alessandro FINAMORE, Fuxing CHEN, Dario ROSSI, "A device and method for network traffic classification", *Patent PCT/EP2022/075646*

[P22]

Alessandro FINAMORE, Lixuan YANG, Dario ROSSI, "Method to address extreme class imbalance in AI based classifiers", *Patent PCT/EP2022/059292*

[P21]

Jose Manuel NAVARRO, Alexis HUET, Dario ROSSI, "Aggregation of Anomalies in a Network", *Patent PCT/EP2022/057757*

[P20]

Zied BEN HOUIDI, Jonatan KROLIKOWSKI, Dario ROSSI, "Network resource control based on neighborhood measurements", *Patent PCT/EP2022/051624*

[P19]

Alexis Huet, Jose Manuel Navarro, Dario Rossi, "Root cause analysis of anomalous events in a computer network", *Patent PCT/EP2021/074381*

- [P18] Alessandro Finamore, Massimo Gallo, Gwendal Simon, Dario Rossi, "Controller For A Cache And Method For Controlling A Cache", *Patent PCT/EP2021/050902*
- [P17] Zied Ben Houidi, and Dario Rossi, Lorenzo del Sordo, Giulia Milan, Luca Vassio, Marco Mellia, Idilio Drago, "Honeypot entity and method of operating the same", *Patent PCT/EP2021/076753*
- [P16] Jose Manuel Navarro, Alexis Huet, Dario Rossi, Andrian Putina, Mauro Sozio, "System and method for combining anomaly detection algorithms", *Patent PCT/FR2021/000024*
- [P15] Lixuan Yang, Feng Jun, Dario Rossi, "Device and method for identifying unknown classes for artificial neural networks", *Patent PCT/EP2021/057212*
- [P14] James Roberts, Dario Rossi, "Method Of Managing Data Transmission For Ensuring Per-Flow Fair Bandwidth Sharing", *Patent PCT/EP2020/080037*
- [P13] Alexis Huet, Dario Rossi, "Detecting A Network-Induced Contribution To A Quality Of Experience Degradation", *Patent PCT/EP2020/077766*
- [P12] Lixuan Yang, Cedric Beliard, Dario Rossi, "Devices, Methods, And System For Heterogeneous Data-Adaptive Federated Learning", *Patent PCT/EP2020/061440*
- [P11] Jose Manuel Navarro, Dario Rossi, "Device For Monitoring A Computer Network System", *Patent PCT/EP2020/052332*
- [P10] Alexis Huet, Dario Rossi, "Devices And Methods For Web Quality Evaluation", *Patent PCT/EP2020/050319*
- [P9] MP Enguehard, G Carofiglio, D Rossi, "Popularity-based load-balancing for fog-cloud placement", *Patent US10721295*
- [P8] D. Rossi, G. Rossini, "Method for managing packets in a network of Information Centric Networking (ICN) nodes", *Patent US10530893B2*
- [P7] Giuseppe Rossini, Dario Rossi, Michele Garetto, Emilio Leonardi, "Information Centric Networking (ICN) router", *Patent EP2940950B1*
- [P6] D. Perino, G. Carofiglio, D. Rossi, G. Rossini, "Dynamic Interest Forwarding Mechanism for Information Centric Networking", *Patent EP2835942B1*
- [P5] 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 EP2785014A1*
- [P4] 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 US8339979B2*
- [P3] M. Perino, M. Mellia, D. Rossi, M. Meo, "Method and apparatus for detecting vocal data flow in a packet data flow", *Patent US20100214933A1*
- [P2] 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*
- [P1] M. Perino, M. Mellia, D. Rossi, M. Meo, "Metodo ed apparato per rilevare flusso dati vocale in un flusso dati a pacchetti", *Patent MI2006A002417*

Recent keynotes, panels, etc.

Note
Talks: [27]

Following a list of recent selected talks, that I only seldom track, so the list is not ment to be complete.
Dario Rossi, "Foundational and specialized models for cyberdefense", *Keynote speech at 49th IEEE Local Computer Networks (LCN), Caen, Normandy, France, 2024* [www]

- [26] Dario Rossi, "Xinghe Intelligent Fabric: Unleashing Computing Power in the AI Era", *Keynote speech at Huawei Network Summit (HNS), Marrakesh, May, 2024*
- [25] Dario Rossi, "Foundational and specialized models for network operation", *Keynote speech at Graph Neural Networking Workshop (GNNNet), co-located with ACM CoNEXT 2023, December, 2023 [www]*
- [24] Dario Rossi, "Emerging trends in Network AI", *Keynote speech at Huawei Connect Europe (HCE), DigitALL night, November, 2023*
- [23] Dario Rossi, "CloudFabric 3.0: Intelligence Innovations in Cloud Networking", *Keynote speech at Huawei Network Summit (HNS), October, 2023*
- [22] Dario Rossi, "Native network intelligence, fast and slow (with a focus on explainable AI)", *Keynote speech at Technology Innovation Institute (TII), AI Seminar Series, June, 2023 [www]*
- [21] Dario Rossi, "Beyond AI-Assisted Networking: Explainable Network Intelligence (NetXAI)", *Invited talk at LIPADE Open Days, June, 2023 [www]*
- [20] Dario Rossi, "Explainable Network AI", *Talk, April, 2023 [www]*
- [19] Dario Rossi, "The road toward more flexible and automated communication passes through AI-Native network architectures", *event-seminar at Schloss Dagstuhl, Germany, November, 2022 [www]*
- [18] Dario Rossi, "Science and innovation at Huawei France", *Invited talk at Huawei Connect Europe (HCE): Innovation day, October, 2022 [www] [video]*
- [17] Dario Rossi, "AI Native Networking", *Panel moderator at ITC34, September, 2022 [www]*
- [16] Dario Rossi, "Steps towards AI-Native networking", *Keynote speech at IEEE NetSoft, June, 2022 [www]*
- [15] Dario Rossi, "Huawei R+D in France", *Talk at Vivatech, June, 2022 [www] [video] [press release]*
- [14] Dario Rossi, "Emerging Trends in AI/ML and Implications for Networking Research", *Panelist at ACM SIGCOMM Networking Channel, May, 2021 [www] [video]*
- [13] Dario Rossi, "Autonomous Driving SLICES: what SLICES can bring to Network AI research", *Invited talk at SLICES RI workshop, March, 2021 [www]*
- [12] Dario Rossi, "Metrics and models for Web performance evaluation", *Invited talk at FOSDEM, Feb, 2020 [www] [video]*
- [11] Dario Rossi, "Huawei all scenario intelligent connectivity", *Invited talk at Huawei Connect Europe (HCE), Oct, 2020 [www]*
- [10] Dario Rossi, "Networking challenges for the next decade: just a few or too many?!", *Panelist at IFIP Networking, June, 2020 [www]*
- [9] Dario Rossi, "The Long and Winding road to Self-driving networks", *Keynote speech at IFIP Networking, June, 2020 [www]*
- [8] Dario Rossi, "Bringing Artificial Intelligence to the network edge", *Keynote speech at Journees du GDR Reseaux et Systemes Distribues (RSD'20), January, 2020 [www]*
- [7] Dario Rossi, "AI-powered Self-Driving Networks", *Invited talk at 21st MPLS+SDN+NFV World Congress, Oct, 2019 [www]*
- [6] Dario Rossi, "Put a Tiger in Your Tank – What benefits can hardware bring to intelligent network operation ?", *Keynote speech at IFIP Traffic Monitoring and Analysis (TMA'19), 2019 [www]*
- [5] Dario Rossi, "The rise of hardware-assisted artificial intelligence at the network edge", *Keynote speech at IFIP Wireless and Mobile Networking Conference (WMNC'19), September, 2019 [www]*
- [4] Dario Rossi, "Human in the QoE loop (aka the Wolf in Sheep's clothing)", *Keynote speech at 3rd International Workshop in Quality of Experience Management, in conjunction with ICIN 2019, September, 2019 [www] [slides]*
- [3] Dario Rossi, "Shedding a (deep learning) light on the operational obscurity of nowadays encrypted traffic", *Invited talk at Huawei Strategic Technical Workshop (STW'19), May, 2019*
- [2] D. Rossi, "Global Measurement Framework", *Invited talk at Dagstuhl Seminar 13472, 2013 [www]*
- [1] Dario Rossi, "Energy-Aware Networks: a Tutorial on Green Networking", *Tutorial at IEEE Networks'10, September 27-30, 2010 [PDF]*

Academic publications

Note

Complete list of publications **by date**, **by type** and **by project** as well as the list of **award winning** publications and a selection of the **most recent** ones, are available online from my webpage. Below, publications are arranged by date.

Bibliometry

Up-to-date information available from my **Google scholar** profile

- 2024: [3] Wang, Chao,Finamore, Alessandro,Pietro, Michiardi,Gallo, Massimo,Rossi, Dario, "Data Augmentation for Traffic Classification", *Passive and Active Measurements (PAM)*, 2024 ★[www]
- [2] Azorin, Raphael,Monterubbiano, Andrea,Castellano, Gabriele,Gallo, Massimo,Pontarelli, Salvatore,Rossi, Dario, "Taming the Elephants: Affordable Flow Length Prediction in the Data Plane", *Proc. of CoNEXT'24 (PACMNET)*., 2024
- [1] Francesco Cerasuolo,Alfredo Nascita,Giampaolo Bovenzi,Giuseppe Aceto,Domenico Ciunzo,Antonio Pescap  ,Dario Rossi, "MEMENTO: A novel approach for class incremental learning of encrypted traffic", *Computer Networksp. 110374*, 2024 [www]
- 2023: [19] Andrea Monterubbiano,Raphael Azorin,Gabriele Castellano,Massimo Gallo,Salvatore Pontarelli,Dario Rossi, "SPADA: A Sparse Approximate Data Structure representation for data plane per-flow monitoring", *ACM CoNEXT*, Dec., 2023 [www]
- [18] Alexis Huet,Jonatan Krolkowski,Jose Manuel Navarro,Fuxing Chen,Dario Rossi, "Change Point Detection in WLANs with Random AP Forests", *ACM CoNEXT*, Dec., 2023 [www]
- [17] Chao Wang,Alessandro Finamore,Massimo Gallo,Pietro Michiardi,Dario Rossi, "Toward Generative Data Augmentation for Traffic Classification", *ACM CoNEXT, Student Workshop*, Dec., 2023 [www]
- [16] Andrea Monterubbiano,Raphael Azorin,Gabriele Castellano,Massimo Gallo,Salvatore Pontarelli,Dario Rossi, "Memory-efficient Random Forests in FPGA SmartNICs", *ACM CoNEXT, Poster session*, Dec., 2023 [www]
- [15] Kong, Lanfang,Huet, Alexis,Rossim, Dario,Sozio, Mauro, "Tree-based Kendall tau Maximization for Explainable Unsupervised Anomaly Detection", *IEEE International Conference on Data Mining (ICDM)*, December, 2023
- [14] Soro, Francesca,Favale, Thomas,Giordano, Danilo,Drago, Idilio,Rescio, Tommaso,Mellia, Marco,Houidi, Zied Ben,Rossi, Dario, "Enlightening the Darknets: Augmenting Darknet Visibility with Active Probes", *IEEE Transactions on Network and Service Management*, Vol. 20, No. 4, pp. 5012-5025, December, 2023 [www]
- [13] Gioacchini, Luca,Vassio, Luca,Mellia, Marco,Drago, Idilio,Houidi, Zied Ben,Rossi, Dario, "i-DarkVec: Incremental Embeddings for Darknet Traffic Analysis", *ACM Trans. Internet Technol.*, Vol. 23, No. 3, aug, 2023
- [12] Kevin Fauvel,Fuxing Chen,Dario Rossi, "A Lightweight, Efficient and Explainable-by-Design Convolutional Neural Network for Internet Traffic Classification", *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD'23)*, aug, 2023 [www]
- [11] Kevin FAUVEL,Yong ZHAO,Zigang CAO,Maolin CHEN,Fuxing CHEN,Dario ROSSI, "Traffic Classification with a Modifiable Ruleset", *Patent PCT/CN2023/080516*
- [10] Azorin, Raphael,Gallo, Massimo,Finamore, Alessandro,Rossi, Dario,Michiardi, Pietro, ""It's a Match!" – A Benchmark of Task Affinity Scores for Joint Learning", *AAAI'23, International Workshop on Practical Deep Learning in the Wild*, Feb, 2023
- [9] Iacobaiea, Ovidiu,Krolkowski, Jonatan,Houidi, Zied Ben,Rossi, Dario, "From Design to Deployment of Zero-touch Deep Reinforcement Learning WLANs", *IEEE Communication Magazine*, Vol. 61, February, 2023 [www]
- [8] Alexis HUET,Jose Manuel NAVARRO,Dario ROSSI, "Identifying and locating change points in a time series of data values", *Patent PCT/EP2023/053192*
- [7] Jonatan KROLIKOWSKI,Zied BEN HOUIDI,Fuxing CHEN,Dario ROSSI, "A data-driven WLAN topology-related KPIs query system and estimation method", *Patent PCT/EP2023/050709*
- [6] Alessandro Finamore,Chao Wang,Jonatan Krolkowski,Jose M. Navarro,Fuxing Chen,Dario Rossi, "Replicating: Contrastive Learning and Data Augmentation in Traffic Classification Using a Flowpic Input Representation", *ACM Internet Measurement Conference (IMC)*, 2023
- [5] Jonatan Krolkowski and Zied Ben Houidi and Dario Rossi, "User-aware WLAN Transmit Power Control in the Wild", , 2023 [www]
- [4] Bovenzi, Giampaolo,Nascita, Alfredo,Yang, Lixuan,Finamore, Alessandro,Aceto, Giuseppe,Ciunzo, Domenico,Pescap  , Antonio,Rossi, Dario, "Benchmarking Class Incremental Learning in Deep Learning Traffic Classification", *IEEE Transactions on Network and Service Managementpp. 1-1*, 2023 [www]

- [3] Franzese, Giulio, Rossi, Simone, Yang, Lixuan, Finamore, Alessandro, Rossi, Dario, Filippone, Maurizio, Michiardi, Pietro, "How Much Is Enough? A Study on Diffusion Times in Score-Based Generative Models", *Entropy*, Vol. 25, No. 4, 2023 [www]
- [2] Jose Manuel Navarro, Alexis Huet, Dario Rossi, "Meta-Learning for Fast Model Recommendation in Unsupervised Multivariate Time Series Anomaly Detection", *AutoML Conference*, 2023 [www]
- [1] Idio Guarino, Chao Wang, Alessandro Finamore, Antonio Pescapè, Dario Rossi, "Many or Few Samples? Comparing Transfer, Contrastive and Meta-Learning in Encrypted Traffic Classification", *Network Traffic Measurement and Analysis Conference (TMA)*, 2023 [www]
- 2022: [20] Matteo Boffa, Luca Vassio, Idilio Drago, Marco Mellia, Giulia Milan, Zied Ben Houidi, Dario Rossi, "On Using Pretext Tasks to Learn Representations from Network Logs", *ACM CoNext workshop on Native Network Intelligence (NNI)*, dec, 2022 [PDF]
- [19] Dario Rossi, Zhang Liang, "Native Network Intelligence, Fast and Slow", *ACM CoNext workshop on Native Network Intelligence (NNI)*, dec, 2022 [PDF]
- [18] Danilo Marinho Fernandes, Jonatan Krolikowski, Zied Ben Houidi, Fuxing Chen, Dario Rossi, "Cross-network transferable neural models for WLAN interference estimation", *ACM CoNext workshop on Graph Neural Networks (GNN)*, dec, 2022 [PDF]
- [17] Stefan Nesic, Andrian Putina, Maroua Bahri, Alexis Huet, Jose Manuel Navarro, Dario Rossi, Mauro Sozio, "StreamRHF: Tree-based unsupervised anomaly detection for data streams", *19th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2022)*, dec, 2022 [PDF]
- [16] Ovidiu Iacobaiea, Jonatan Krolikowski, Zied Ben Houidi, Dario Rossi, "From Design to Deployment of Zero-touch Deep Reinforcement Learning WLANs", *IEEE Communications Magazine* (vol. to appear), December, 2022
- [15] Jose Manuel Navarro, Alexis Huet, Dario Rossi, "Human readable network troubleshooting based on anomaly detection and feature scoring", *Terch.Rep.*, 2022
- [14] Zied Ben Houidi, Raphael Azorin, Massimo Gallo, Alessandro Finamore, Dario Rossi, "Towards a systematic multi-modal representation learning for network data", *ACM HotNets*, nov, 2022 [PDF]
- [13] Dario Rossi, Liang Zhang, "Landing AI on Networks: An equipment vendor viewpoint on Autonomous Driving Networks", *IEEE Transactions on Network and Service Management (TNSM)*, Vol. 19, sep, 2022 [PDF]
- [12] Jose Manuel Navarro, Alexis Huet, Dario Rossi, "Rare Yet Popular: Evidence and Implications from Anomaly Detection Datasets", *International Teletraffic Congress (ITC34)*, sep, 2022 [PDF]
- [11] Zied Ben Houidi, Dario Rossi, "Neural language models for network configuration: Opportunities and reality check", *Elsevier Computer Communication*, Vol. (to appear), pp. Pages 118-125, Sep, 2022 [PDF]
- [10] Roberts, James, Rossi, Dario, "Size-Based Scheduling vs Fairness for Datacenter Flows: A Queuing Perspective", *ACM SIGMETRICS Perform. Eval. Rev.*, Vol. 50, No. 2, Sep, 2022
- [9] Lixuan YANG, Alessandro FINAMORE, Fuxing CHEN, Dario ROSSI, "A device and method for network traffic classification", *Patent PCT/EP2022/075646*
- [8] Alexis Huet, Jose Manuel Navarro, Dario Rossi, "Local Evaluation of Time Series Anomaly Detection Algorithms", *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, aug, 2022 [PDF]
- [7] Chao Wang, Alessandro Finamore, Lixuan Yang, Kevin Fauvel, Dario Rossi, "AppClassNet: A commercial-grade dataset for application identification research", *ACM SIGCOMM Computer Communication Review*, Vol. 52, july, 2022 [PDF]
- [6] Giulio Franzese, Simone Rossi, Lixuan Yang, Alessandro Finamore, Dario Rossi, Maurizio Filippone, Pietro Michiardi, "How much diffusion time is enough?", *ICML 2022 workshop on Continuous time methods for machine learning*, June, 2022 [PDF]
- [5] Alessandro Finamore, James Roberts, Massimo Gallo, Dario Rossi, "Accelerating Deep Learning Classification with Error-controlled Approximate-key Caching", *IEEE INFOCOM*, may, 2022 [PDF]
- [4] Alessandro FINAMORE, Lixuan YANG, Dario ROSSI, "Method to address extreme class imbalance in AI based classifiers", *Patent PCT/EP2022/059292*
- [3] Jose Manuel NAVARRO, Alexis HUET, Dario ROSSI, "Aggregation of Anomalies in a Network", *Patent PCT/EP2022/057757*
- [2] Zied BEN HOUIDI, Jonatan KROLIKOWSKI, Dario ROSSI, "Network resource control based on neighborhood measurements", *Patent PCT/EP2022/051624*

- [1] Matteo Boffa, Zied Ben Houidi, Jonatan Krolikowski, Dario Rossi, "Neural combinatorial optimization beyond the TSP: Existing architectures under-represent graph structure", *AAAI workshop on Graphs and more complex structures for learning and reasoning (GLCR'22)*, 2022 [PDF]
- 2021: [17] Geissler, Stefan, Lange, Stanislav, Linguaglossa, Leonardo, Rossi, Dario, Zinner, Thomas, Hossfeld, Tobias, "Discrete-Time Modeling of NFV Accelerators That Exploit Batched Processing", *ACM Trans. Model. Perform. Eval. Comput. Syst.*, Vol. 6, No. 3, dec, 2021 [www]
- [16] Gioacchini, Luca, Vassio, Luca, Mellia, Marco, Drago, Idilio, Ben Houidi, Zied, Rossi, Dario, "DarkVec: Automatic Analysis of Darknet Traffic with Word Embeddings", *ACM CoNEXT, Runner-up for best paper award*, December, 2021 ★[PDF]
- [15] Azorin, Raphael, Gallo, Massimo, Finamore, Alessandro, Filippone, Maurizio, Michiardi, Pietro, Rossi, Dario, "Towards a Generic Deep Learning Pipeline for Traffic Measurements", *ACM CoNEXT, Student Workshop*, December, 2021 [PDF]
- [14] Massimo Gallo, Alessandro Finamore, Gwendal Simon, Dario Rossi, "FENXI: Fast In-Network Analytics", *IEEE/ACM Symposium on Edge Computing (SEC)*, Dec., 2021 [PDF]
- [13] Lixuan Yang, Alessandro Finamore, Jun Feng, Dario Rossi, "Deep Learning and Zero-Day Traffic Classification: Lessons learned from a commercial-grade dataset", *IEEE Transactions on Network and Service Management*, Vol. 18, No. 4, pp. 4103–4118, December, 2021 [PDF]
- [12] Giampaolo Bovenzi, Lixuan Yang, Alessandro Finamore, Giuseppe Aceto, Domenico Ciunzio, Antonio Pescapè, Dario Rossi, "A First Look at Class Incremental Learning in Deep Learning Mobile Traffic", *IFIP Traffic Monitoring and Analysis (TMA)*, September, 2021 [PDF]
- [11] Alexis Huet, Jose Manuel Navarro, Dario Rossi, "Root cause analysis of anomalous events in a computer network", *Patent PCT/EP2021/074381*
- [10] Ovidiu Iacobaiea, Jonatan Krolikowski, Zied Ben Houidi, Dario Rossi, "Real-Time Channel Management in WLANs: Deep Reinforcement Learning Versus Heuristics", *IFIP Networking, Helsinki, Finland*, jun, 2021 [PDF]
- [9] Lixuan Yang, Dario Rossi, "Thinkback: Task Specific Out-of-Distribution Detection", *International Conference on Machine Learning (ICML) workshop on Uncertainty and Robustness in Deep Learning (UDL) 2021*, June, 2021 [PDF]
- [8] Jonatan Krolikowski, Ovidiu Iacobaiea, Zied Ben Houidi, Dario Rossi, "WiFi Dynoscope: Interpretable Real-Time WLAN Optimization", *IEEE INFOCOM, Demo session*, may, 2021 [PDF]
- [7] Ovidiu Iacobaiea, Jonatan Krolikowski, Zied Ben Houidi, Dario Rossi, "The long and winding road to Deep Autonomous Networks: Lessons from real WLAN deployment", *Terch.Rep.*, 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] Alessandro Finamore, Massimo Gallo, Gwendal Simon, Dario Rossi, "Controller For A Cache And Method For Controlling A Cache", *Patent PCT/EP2021/050902*
- [4] Zied Ben Houidi, and Dario Rossi, Lorenzo del Sordo, Giulia Milan, Luca Vassio, Marco Mellia, Idilio Drago, "Honeypot entity and method of operating the same", *Patent PCT/EP2021/076753*
- [3] Jose Manuel Navarro, Alexis Huet, Dario Rossi, Andrian Putina, Mauro Sozio, "System and method for combining anomaly detection algorithms", *Patent PCT/FR2021/000024*
- [2] Lixuan Yang, Feng Jun, Dario Rossi, "Device and method for identifying unknown classes for artificial neural networks", *Patent PCT/EP2021/057212*
- [1] Lixuan Yang, and Dario Rossi, "Quality monitoring and assessment of deployed Deep Learning models for Network AI Ops", *IEEE Network Magazine*, pp. 84-90, November/December, 2021 [PDF]
- 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*, Sep., 2020 ★[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", *Patent PCT/EP2020/061440*
- [5] Jose Manuel Navarro,Dario Rossi, "Device For Monitoring A Computer Network System", *Patent PCT/EP2020/052332*
- [4] Alexis Huet,Dario Rossi, "Devices And Methods For Web Quality Evaluation", *Patent PCT/EP2020/050319*
- [3] MP Enguehard, G Carofiglio, D Rossi, "Popularity-based load-balancing for fog-cloud placement", *Patent US10721295*
- [2] Lixuan Yang,Cedric Beliard,Dario Rossi, "Heterogeneous Data-Aware Federated Learning", *International Joint Conference on Artificial Intelligence (IJCAI), Workshop on Federated Learning*, September (deferred to Covid), 2020 [PDF]
- [1] Lixuan Yang,Alessandro Finamore,Dario Rossi, "Deep Learning and Traffic Classification: A critical review with novel", *International Joint Conference on Artificial Intelligence (IJCAI), Workshop on Network Traffic Analytics using Machine Learning*, September (deferred to Covid), 2020 [PDF]
- 2019: [8] Flavia Salutari,Diego Da Hora,Gilles Dubuc,Dario Rossi, "A large-scale study of Wikipedia users' Quality of Experience", *The Web Conference (WWW'19)*, May, 2019 [PDF]
- [7] L. Linguaglossa,S. Lange,S. Pontarelli,G. RaitvÄqri,D. Rossi,T. Zinner,R. Bifulco,M. Jarschel,G. Bianchi, "Survey of Performance Acceleration Techniques for Network Function Virtualization", *Proceedings of the IEEE*, Vol. 107, No. 4, pp. 746-764, April, 2019 [PDF]
- [6] Alexis Huet,Dario Rossi, "Explaining Web users' QoE with Factorization Machines", *IEEE INFOCOM*, April, 2019 [PDF]
- [5] Stanislav Lange,Leonardo Linguaglossa,Stefan Geissler,Dario Rossi,Thomas Zinner, "Discrete-time modeling of NFV accelerators that exploit batched processing", *IEEE INFOCOM*, April, 2019 [PDF]

- [4] Leonardo Linguaglossa, Dario Rossi, Salvatore Pontarelli, Dave Barach, Damjan Marjon, Pierre Pfister, "High-Speed Data Plane and Network Functions Virtualization by Vectorizing Packet Processing", *Elsevier Computer Networks*, Vol. 149, pp. 187–199, Feb, 2019 [PDF]
- [3] Tianzhu Zhang, Leonardo Linguaglossa, Massimo Gallo, Paolo Giaccone, Dario Rossi, "FloWatcher-DPDK: Lightweight line-rate flow-level monitoring in software", *IEEE Transactions on Networks and Service Management*, 2019 [PDF]
- [2] James Daly, Valerio Bruschi, Leonardo Linguaglossa, Salvatore Pontarelli, Dario Rossi, Jerome Tollet, Eric Torng, Andrew Yourtchenko, "TupleMerge: Fast Software Packet Processing for Online Packet Classification", *IEEE Transactions on Networking*, 2019 [PDF]
- [1] , "Web Quality of Experience from Encrypted Packets", *ACM SIGCOMM, Demo Session*, 2019 [PDF] [video]
- 2018:** [21] Marcel Enguehard, Ralph Droms, Dario Rossi, "On the cost of geographic forwarding for information-centric things", *IEEE Transactions on Green Communications and Networking*, Vol. 2, pp. 1150-1163, december, 2018 [PDF]
- [20] David Barach, Leonardo Linguaglossa, Damjan Marion, Pierre Pfister, Salvatore Pontarelli, Dario Rossi, "High-speed Software Data Plane via Vectorized Packet Processing", *IEEE Communication Magazine*, Vol. 56, No. 12, pp. 97-103, December, 2018 [PDF]
- [19] Marcel Enguehard, Giovanna Carofiglio, Dario Rossi, "A popularity-based approach for effective Cloud offload in Fog clusters", *30th International Teletraffic Congress (ITC30)*, September, 2018 [PDF]
- [18] Andrian Putina, Dario Rossi, Albert Bifet, Steven Barth, Drew Pletcher, Cristina Precup, Patrice Nivaggioli, "Telemetry-based stream-learning of BGP anomalies", *ACM SIGCOMM Workshop on Big Data Analytics and Machine Learning for Data Communication Networks (Big-DAMA'18)*, Aug, 2018 [PDF]
- [17] Tortelli, Michele, Rossi, Dario, Leonardi, Emilio, "Parallel Simulation of Very Large-Scale General Cache Networks", *IEEE Journal on Selected Areas in Communication (JSAC)*, Vol. 36, pp. 1871–1886, August, 2018 [PDF]
- [16] Diego Neves da Hora, Dario Rossi, Vassilis Christophides, Renata Teixeira, "A practical method for measuring Webabove-the-fold time", *ACM SIGCOMM, Demo Session, Budapest, Hungary*, Aug, 2018 [PDF]
- [15] Tianzhu Zhang, Leonardo Linguaglossa, Massimo Gallo, Paolo Giaccone, Dario Rossi, "FlowMon-DPDK: Parsimonious per-flow software monitoring at line rate", *ACM SIGCOMM, Demo Session, Budapest, Hungary*, Aug, 2018 [PDF]
- [14] Vamsi Addanki, Leonardo Linguaglossa, James Roberts, Dario Rossi, "Fair dropping for multi-resource fairness in software routers", in "ACM SIGCOMM, Demo Session," , *Budapest, Hungary*, 2018, [PDF]
- [13] YiXi Gong, James W. Roberts, Dario Rossi, "Per-Flow Fairness in the Datacenter Network", *IEEE International Conference on High Performance Switching and Routing (HPSR'18)*, June, 2018 [PDF]
- [12] Jacques Samain, Giovanna Carofiglio, Michele Tortelli, Dario Rossi, "A simple yet effective network-assisted signal for enhanced DASH quality of experience", *28th ACM SIGMM Workshop on Network and Operating Systems Support for Digital Audio and Video (NOSSDAV'18)*, June, 2018 ★[PDF]
- [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] Salutari, 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)*, *Receipient 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", *Terch.Rep. Telecom ParisTech*, 2017[PDF]
- [8] Salutari, Flavia, Cicalese, Danilo, Rossi, Dario, "A closer look at IP-ID behavior in the Wild", *Terch.Rep. Telecom ParisTech*, 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", *Terch.Rep. Telecom ParisTech*, 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", *Terch.Rep. Telecom ParisTech*, 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 receipient 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, Joumblatt, 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, Joumblatt, 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, Joumblatt, 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, Joumblatt, 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 [www]
- [6] Espinet, Francois, Joumblatt, 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, Joumblatt, 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, Joumblatt, 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, Joumblatt, 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*, 2015 [PDF]
- 2014:** [21] 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]
- [20] 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]

- [19] 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]
- [18] 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]
- [17] 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]
- [16] 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]
- [15] 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]
- [14] 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]
- [13] G. Rossini, D. Rossi, G. Garetto, E. Leonardi, "Multi-Terabyte and Multi-Gbps Information Centric Routers", *IEEE INFOCOM*, Toronto, Canada, Apr, 2014 [PDF]
- [12] 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]
- [11] 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]
- [10] Dario Rossi, Guilhem Pujol, Xiao Wang, Fabien Mathieu, "Peeking Through the BitTorrent Seedbox Hosting Ecosystem", *Traffic Measurement and Analysis (TMA)*, Apr, 2014 [PDF]
- [9] 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]
- [8] 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]
- [7] R. Mazloum, 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]
- [6] Claudio Testa, Dario Rossi, "Delay-based congestion control: Flow vs. BitTorrent swarm perspectives", *Computer Networks*, Vol. 60, pp. 115 – 128, Feb, 2014 [PDF]
- [5] 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]
- [4] 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]
- [3] D. Rossi, "Anycast enumeration and geolocation", *Terch.Rep. Keynote speech at ACM SIGCOMM AINTEC'2014*, 2014 [www]
- [2] D. Rossi, G. Rossini, "Method for managing packets in a network of Information Centric Networking (ICN) nodes", *Patent US10530893B2*
- [1] Giuseppe Rossini, Dario Rossi, Michele Garetto, Emilio Leonardi, "Information Centric Networking (ICN) router", *Patent EP2940950B1*
- 2013:** [18] C. Chirichella, D. Rossi, C. Testa, T. Friedman, A. Pescapé, "Passive bufferbloat measurement exploiting transport layer information", *IEEE GLOBECOM*, Dec, 2013 [PDF]
- [17] A. Araldo, D. Rossi, "Dissecting Bufferbloat: Measurement and Per-Application Breakdown of Queueing Delay", *ACM CoNEXT'13, Student Workshop*, Dec, 2013 [PDF]
- [16] 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]

- [15] Walter Bellante, Rosa Vilardi, Dario Rossi, "On Netflix catalog dynamics and caching performance", *IEEE CAMAD, Berlin, Germany*, Sep, 2013 [PDF]
- [14] 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]
- [13] 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]
- [12] 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]
- [11] Chiocchetti, Raffaele, Rossi, Dario, Rossini, Giuseppe, "ccnSim: an Highly Scalable CCN Simulator", *IEEE International Conference on Communications (ICC)*, Jun, 2013 [PDF]
- [10] 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]
- [9] 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]
- [8] 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]
- [7] 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]
- [6] 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]
- [5] 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]
- [4] 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]
- [3] D. Perino, G. Carofiglio, D. Rossi, G. Rossini, "Dynamic Interest Forwarding Mechanism for Information Centric Networking", *Patent 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 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 Tammara, 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 [www]
- [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:** [11] 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]
- [10] C. Testa, D. Rossi, "The impact of uTP on BitTorrent completion time", *IEEE Peer to Peer (P2P'11)*, Kyoto, Japan, September, 2011 [PDF]
- [9] 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]
- [8] 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]
- [7] 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]
- [6] 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]
- [5] 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]
- [4] A. Raju, A. P. Bianzino, D. Rossi, "Greening the Internet: Measuring Web Power Consumption", *IEEE ITProfessional*, Jan, 2011 [PDF]
- [3] 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
- [2] D. Rossi, G. Rossini, "Caching performance of content centric networks under multi-path routing (and more)", *Terch.Rep. Telecom ParisTech*, 2011 [PDF]
- [1] E. Alessandria, L. Muscariello, D. Rossi, "ModelNet-TE: An emulation tool for the study of P2P and Traffic Engineering interaction dynamics", *Terch.Rep. Telecom ParisTech*, 2011
- 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", *HDR Thesis*, December, 2010

- [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] 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]
- [15] 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]
- [14] 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]
- [13] 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]
- [12] 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]
- [11] 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]
- [10] 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]
- [9] 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]
- [8] 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]
- [7] A. P. Bianzino, C. Chaudet, J.L. Rougier, D. Rossi, "A Survey of Green Networking Research", *IEEE Communications Surveys & Tutorials*, Vol. 14, 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", *Terch.Rep. Telecom ParisTech*, 2010[www]
- [1] G. Carofiglio, L. Muscariello, D. Rossi, C. Testa, S. Valenti, "Rethinking low extra delay background transport protocols", *Terch.Rep. Telecom ParisTech*, 2010[www]
- 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

- 2008: [13] 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]
- [12] M. Mellia, M. Meo, L. Muscariello, D. Rossi, "Passive analysis of TCP anomalies", *Elsevier Computer Networks, Vol. 52, No. 14*, October, 2008 [PDF]
- [11] 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]
- [10] 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]
- [9] D. Rossi, R. Fracchia, M. Meo, "VANETs: Why Beaconing at All", *IEEE International Conference on Communications (ICC'08), Beijing, China*, May, 2008 [PDF]
- [8] D. Bonfiglio, M. Mellia, M. Meo, N. Ritacca, D. Rossi, "Tracking Down Skype Traffic", *IEEE INFOCOM, Phoenix, AZ, USA*, April, 2008 [PDF]
- [7] 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]
- [6] D. Rossi, M. Mellia, M. Meo, "Following Skype Signaling Footsteps", *IEEE QoS-IP, Venezia, Italy*, February, 2008 [PDF]
- [5] P. Bermolen, D. Rossi, "Support Vector Regression for Link Load Prediction", *IEEE QoS-IP, Venezia, Italy*, February, 2008 [PDF]
- [4] 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]
- [3] D. Rossi, M. Mellia, M. Meo, "Quando il PC diventa un telefono", *Il Sole 24 ore / Media 2000*, 2008
- [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 US8339979B2*
- [1] M. Perino, M. Mellia, D. Rossi, M. Meo, "Method and apparatus for detecting vocal data flow in a packet data flow", *Patent US20100214933A1*

- 2007: [4] R. Birke, M. Mellia, M. Petracca, D. Rossi, "Understanding VoIP from Backbone Measurements", *IEEE INFOCOM, Anchorage, Alaska, USA*, May, 2007 [PDF]
- [3] 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]
- [2] 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

[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", <i>Patent MI2007A001141</i>
2006: [7]	R. Fracchia,M. Meo,D. Rossi, "VANETs: To Beacon or Not To Beacon", <i>Autonet'06 Workshop at IEEE Globecom'06, San Francisco, CA, USA</i> , November, 2006 [PDF]
[6]	L. Muscariello,M. Meo,M. Mellia,D. Rossi, "Passive Measurement of TCP Anomalies," , <i>IEEE International Conference of Communication (ICC'06), Istanbul, Turkey</i> , June, 2006 [PDF]
[5]	D. Rossi,M. Mellia, "Real-Time TCP/IP Analysis with Common Hardware", <i>IEEE International Conference of Communication (ICC'06), Istanbul, Turkey</i> , June, 2006 [PDF]
[4]	R. Fracchia,M. Meo,D. Rossi, "On the Impact of Traffic Models on Inter-vehicular Broadcast Communication", <i>IEEE MedHocNet 2006, Lipari, Italy</i> , June, 2006 [PDF]
[3]	R. Fracchia,M. Meo,D. Rossi, "Avoiding broadcast storms in inter-vehicular warning delivery services", <i>6th International Workshop on Applications and Services in Wireless Networks (ASWN'06), Berlin, Germany</i> , April, 2006 [PDF]
[2]	R. Fracchia,M. Meo,D. Rossi, "Knowing Vehicle Location HELPs Avoiding Broadcast Packets Storm", <i>3rd IEEE International Workshop on Mobile Peer-to-Peer Computing (MP2P'06) at IEEE PerComm'06, Pisa, Italy</i> , March, 2006 [PDF]
[1]	M. Perino,M. Mellia,D. Rossi,M. Meo, "Metodo ed apparato per rilevare flusso dati vocale in un flusso dati a pacchetti", <i>Patent MI2006A002417</i>
2005: [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), Aveiro, Portugal</i> , November, 2005 [PDF]
[2]	D. Rossi,I. Stoica, "Gambling Heuristics on a Chord Ring", <i>IEEE Globecom'05, St Luis, MO, USA</i> , November, 2005 [PDF]
[1]	D. Rossi, "Traffic at the Network Edge: Sniff, Analyze, Act", <i>keyword=measurement category=inproceedings state=published</i> , April, 2005
2004: [2]	D. Rossi,L. Muscariello,M. Mellia, "On the properties of TCP Flow Arrival Process", <i>IEEE International Conference of Communication (ICC'04), Paris, France</i> , 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), Phoenix, AZ, USA</i> , April, 2004 [PDF]
2003: [1]	D. Rossi,C. Casetti,M. Mellia, "User Patience and the Web: a Hands-on Investigation", <i>IEEE Globecom'03, San Francisco, CA, USA</i> , December, 2003 [PDF]
2002: [1]	D.Rossi,C.Casetti,M.Mellia, "A Simulation Study of Web Traffic over DiffServ Networks", <i>IEEE Globecom'02, Taipei, TW</i> , November, 2002 [PDF]
2001: [1]	D.Rossi, "A Simulation Study of Web Traffic over DiffServ Networks", <i>keyword=tengineering category=inproceedings state=published</i> , November, 2001
by date	https://nonsns.github.io/drossi/publications/date/
by type	https://nonsns.github.io/publications/type/
by project	https://nonsns.github.io/publications/project/
Award Winning	https://nonsns.github.io/publications/award/
Recent stuff	https://nonsns.github.io/publications/recent/
Google scholar	http://scholar.google.com/citations?user=PP1W6HkAAAAJ
DBLP	https://dblp.uni-trier.de/pid/14/3340.html