




Curriculum vitæ

Personal Information

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 	

Work experience

Jul 2019 – now

Employer

Main responsibilities


DataCom AI4NET CTO and DataCom Lab Director, Paris Research Center

Huawei Technologies SASU, 92100 Boulogne-Billancourt, France

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

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

Publicly accessible achievements:

- Author of 15+ patents, 200+ papers ([full list !\[\]\(569ff5d1aa9137b5defb690d1175fea6_img.jpg\)](#)) that received several awards and attracted 7500+ citations, for an H-index of 40+ (Google Scholar )
- Publications include top-tier machine learning (ICDM, ICML, KDD, WWW, IJCAI) and networking (SIGCOMM, CoNEXT, INFOCOM, IMC) conferences and journals (ToN, JSAC, TMM).

Awards:

- ★ *Career awards* ([full list !\[\]\(a43b62a38b6e2844e794f4301a08d3ba_img.jpg\)](#)): IETF Applied Network Research Prize (2016), Google Faculty Research Award (2015), IEEE INFOCOM Distinguished Member (2015, 2016, 2017 and 2019)
- ★ *Paper awards* ([full list !\[\]\(6e4ee66e87e896673b3d048b72667243_img.jpg\)](#)): IEEE ComSoc Internet TC Award (2016-2017), Best paper at NTMS (2012), TRAC (2014-2015), SIGCOMM InternetQoE (2016), NOSSDAV (2018), ITC (2020), runner up at ITC (2013) and ITC (2016). Best poster TMA (2016) and dataset at PAM (2018).

Nov 2018 – Jun 2019

Employer

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

Huawei Technologies SASU, 92100 Boulogne-Billancourt, France

Sep 2012 – Jan 2019

Employer

Main responsibilities

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)

Oct 2016 – Oct 2018

Chair Professor, Computer Science and Networking Department (INFRES)

Jan 2012 – Oct 2016

Full Professor, Computer Science and Networking Department (INFRES)

Oct 2006 – Dec 2011

Associate Professor, Computer Science and Networks Department (INFRES)

Employer

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

Main responsibilities

Technical leader and manager of a research team:

- Lead of Cisco's Chair NewNet@Paris, direct reporting to CTO and VP level.
- Principal investigator for several projects (2 × 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 LINCOS Bureau
- Steering/Program Committees of 70+ international conferences (incl. ACM SIGCOMM, IEEE INFOCOM, ACM CoNEXT) and Editorial/Review board for 15+ journals ([full list !\[\]\(af3d855ea318737836b0c1433b17b4fc_img.jpg\)](#))
- Responsible for several courses (RES203, RES212, RES224, RES240) at graduate and undergraduate levels, in French and English

Jan 2005 – Sep 2006

Employer

Main responsibilities

PostDoc Researcher, Electronics Engineering Department (DELEN)

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

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

Aug 2003 – Aug 2004

Employer

Main responsibilities

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

University of California, Berkeley, CA94720-1776, USA

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

Jan 2001 – Dec 2004

Employer

Main responsibilities

Research Engineer, Electronics Engineering Department (DELEN)

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

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

Education and qualifications

2015

ACM Senior Member

2012

IEEE Senior Member

Feb 2012

Qualification au Corps des Professeurs des Universités (CNU Qualification for Full Professor)

Institution

Conseil Nationale des Universités (CNU), Section 27 Informatique (n.12127228639)

Dec 2010

Habilitation à Diriger des Recherches (HDR in Computer Science)

Institution

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

HDR Thesis Title

P2P Networking: The Dawn of the Homo Interconnexus Era

Apr 2005

Dottorato in Ing. Elettronica e delle Telecomunicazioni (PhD in Electronics Engineering)

Institution

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

PhD Thesis Title

Traffic at the Network Edge: Sniff, Analyze, Act

Mar 2002

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

A Simulation Study of Web Traffic over DiffServ Networks

Notes

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

Personal skills

Mother tongue(s)

Italian

Other languages

French Living in France since 2006.

English One-year stay in Berkeley, CA (USA) for work purposes. First Certificate in English (FCE), University of Cambridge, UK (1995). Five years of study at the British Churchill Center.

*Self-assessment
European level^(*)*

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
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

French

English

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 Lab Director.

Scientific and Computer skills

Visit my personal [webpage](#), or [GitHub](#) for more!

- **Machine learning.** Supervised classification, unsupervised clustering, stream-learning, forecast and regression, rule-based and reinforcement learning. (Hate but can do) feature selection.
- **Network science.** Control theory, stochastic modeling, monte-carlo & event-driven simulation.
- **Operating Systems.** Linux, Unix and TinyOS (power user and development), Windows (user).
- **Programming Languages.** C/C++, Perl, Python, bash, nesC, Tcl/Tk, Awk, Php, CGI, Ruby
- **Scientific Tools.** Octave, Weka, R, Mathematica and CPLEX; ns2, Omnet++ and TOSSIM;
- **Publishing.** 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
 - [LEDBAT](#): open source implementation of the BitTorrent congestion control protocol
 - [LEDBAT+AQM](#): Solving the reprioritization issue arising LEDBAT and AQM
 - [Tstat](#): Traffic analyzer tool with traffic classification capabilities, 30000+ download so far.

Sports and Interests

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

Driving licences

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

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.

- ★ 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 2015 IEEE INFOCOM TPC
- ★ The research stage of Francois Espinent (X2011) at LINCIS was awarded honourable distinction with unanimous congratulations from the jury
- ★ Best paper award at the 5th International Workshop on TRaffic Analysis and Characterization (TRAC 2014)
- ★ Runner up for best paper award at the 25th International Teletraffic Congress (ITC 2013)
- ★ IEEE Senior member (2013)
- ★ Best paper award at the 5th IFIP International Conference on New Technologies, Mobility and Security (NTMS 2012)

Teaching activities

Responsible

- INF568 Network security
Ecole 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
Ecole 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"> — I. Guarini (visiting, 2002), 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, Telecom ParisTech and Z. B. Houidi, Huawei — R. Azorin (CIFRE, started 2020), co-advised by P. Michiardi, EURECOM and M. Gallo, Huawei — G. Sviridov (visiting, during 2020), 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
Visiting Research Fellows	<ul style="list-style-type: none"> — M. Crovella (Visiting Professor from Boston University, 2018) https://www.cs.bu.edu/faculty/crovella/ — R. Rejate (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 Politecnica 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

- W. Chao (2021)
- S. Nesic (2021)
- M. Boffa (2021)
- F. Spinelli (2019)
- V. Bruschi (2018)
- V. A. Krishna (2017)
- A. Putina (2017)
- F. Salutari (2017)
- G. Milotta (2016)
- J. Ficapal (2016)
- V. Martino (2016)
- S. Giuffrida (2015)
- L. Bordone (2014)
- D. Cicalese (2014)
- V. Di Gennaro (2014)
- F. Espinet (2014)
- S. Colabrese (2013)
- G. Nassopoulos (2013)
- S. D'Ambrosio (2013)
- P. Casoria (2013)
- P. Gu (2013)
- A. Araldo (2013)
- W. Bellante (2012)
- M. Spina (2012)
- R. Chiocchetti (2012)
- C. Chirichella (2012)
- D. Tammara (2010)
- A. Raju Kishore (2010)
- E. Alessandria (2010)
- G. Rossini (2010)
- M. Sammarco (2010)
- G. LaMantia (2009)
- E. Sottile (2009)
- A. Ktari (2009)
- A. Finamore (2008)
- M. Arujo Cardenas (2007)
- D. Bonfiglio (2007)
- N. Ritacca (2007)
- S. Ricci (2006)

Juries

HDR Jury

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

- 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)
- Noureddine 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
- 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

2023

- **AAAI'23**, 37th AAAI Conference on Artificial Intelligence, Feb 2023

2022

- **ACM GNNET'22**, Graph Neural Networking Workshop, Co-located with ACM CoNEXT 2022, Dec 2022–23, Rome, Italy
- **IEEE INFOCOM'22**, 38th IEEE International Conference on Computer Communications, May 2022, Virtual
- **ITC34**, International Teletraffic Congress, September 2022, Shenzhen, China

2021

- **NetSys 2021**, Conference on Networked Systems, Machine Learning in Networking workshop, March 2021, L'Aijbeck, Germany
- **IEEE INFOCOM'21**, 38th IEEE International Conference on Computer Communications, April 2021, Virtual

2020

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

2019

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

2018

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

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

2012	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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	<ul style="list-style-type: none"> — 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 | <ul style="list-style-type: none"> — 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 | <ul style="list-style-type: none"> — 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 ParisTech (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: [P14]

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

[P13]

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

[P12]

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

[P11]

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

[P10]	Alexis Huet, Jose Manuel Navarro, Dario Rossi, "Root cause analysis of anomalous events in a computer network", <i>Patent PCT/EP2021/074381</i>
[P9]	MP Enguehard, G Carofiglio, D Rossi, "Popularity-based load-balancing for fog-cloud placement", <i>Patent US10721295</i>
[P8]	D. Rossi, G. Rossini, "Method for managing packets in a network of Information Centric Networking (ICN) nodes", <i>Patent US10530893B2</i>
[P7]	Giuseppe Rossini, Dario Rossi, Michele Garetto, Emilio Leonardi, "Information Centric Networking (ICN) router", <i>Patent EP2940950B1</i>
[P6]	D. Perino, G. Carofiglio, D. Rossi, G. Rossini, "Dynamic Interest Forwarding Mechanism for Information Centric Networking", <i>Patent EP2835942B1</i>
[P5]	D. Perino, G. Carofiglio, R. Chiochetti, D. Rossi, G. Rossini, "Device and method for organizing forwarding information in nodes of a content centric networking", <i>Patent EP2785014A1</i>
[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", <i>Patent US8339979B2</i>
[P3]	M. Perino, M. Mellia, D. Rossi, M. Meo, "Method and apparatus for detecting vocal data flow in a packet data flow", <i>Patent US20100214933A1</i>
[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", <i>Patent MI2007A001141</i>
[P1]	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>

Recent keynotes, panels, etc.

Note	Following a list of recent selected talks, that I only seldom track, so the list is not ment to be complete.
Talks: [19]	Dario Rossi, "The road toward more flexible and automated communication passes through AI-Native network architectures", <i>event-seminar at Schloss Dagstuhl, Germany</i> , November, 2022 [www]
[18]	Dario Rossi, "Science and innovation at Huawei France", <i>Invited talk at Huawei Connect Europe (HCE): Innovation day</i> , October, 2022 [www] [video]
[17]	Dario Rossi, "AI Native Networking", <i>Panel moderator at ITC34</i> , September, 2022 [www]
[16]	Dario Rossi, "Steps towards AI-Native networking", <i>Keynote speech at IEEE NetSoft</i> , June, 2022 [www]
[15]	Dario Rossi, "Huawei R+D in France", <i>Talk at Vivatech</i> , June, 2022 [www] [video] [press release]
[14]	Dario Rossi, "Emerging Trends in AI/ML and Implications for Networking Research", <i>Panelist at ACM SIGCOMM Networking Channel</i> , May, 2021 [www] [video]
[13]	Dario Rossi, "Autonomous Driving SLICES: what SLICES can bring to Network AI research", <i>Invited talk at SLICES RI workshop</i> , March, 2021 [www]
[12]	Dario Rossi, "Metrics and models for Web performance evaluation", <i>Invited talk at FOSDEM</i> , Feb, 2020 [www] [video]
[11]	Dario Rossi, "Huawei all scenario intelligent connectivity", <i>Invited talk at Huawei Connect Europe (HCE)</i> , Oct, 2020 [www]
[10]	Dario Rossi, "Networking challenges for the next decade: just a few or too many?!", <i>Panelist at IFIP Networking</i> , June, 2020 [www]
[9]	Dario Rossi, "The Long and Winding road to Self-driving networks", <i>Keynote speech at IFIP Networking</i> , June, 2020 [www]
[8]	Dario Rossi, "Bringing Artificial Intelligence to the network edge", <i>Keynote speech at Journees du GDR Reseaux et Systemes Distribues (RSD'20)</i> , 2020 [www]
[7]	Dario Rossi, "AI-powered Self-Driving Networks", <i>Invited talk at 21st MPLS+SDN+NFV World Congress</i> , 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)*, 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*, 2019 [www]
- [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)*, 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

- 2022:** [19] 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
- [18] Dario Rossi, Zhang Liang, "Native Network Intelligence, Fast and Slow", *ACM CoNext workshop on Native Network Intelligence (NNI)*, dec, 2022
- [17] 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
- [16] 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]
- [15] 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]
- [14] 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
- [13] Lixuan YANG, Alessandro FINAMORE, Fuxing CHEN, Dario ROSSI, "A device and method for network traffic classification", *Patent PCT/EP2022/075646*
- [12] 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]
- [11] Ovidiu Iacobaia, Jonatan Krolikowski, Zied Ben Houidi, Dario Rossi, "From Design to Deployment of Zero-touch Deep Reinforcement Learning WLANs", *Terch.Rep.*, 2022
- [10] 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]
- [9] Alessandro Finamore, James Roberts, Massimo Gallo, Dario Rossi, "Accelerating Deep Learning Classification with Error-controlled Approximate-key Caching", *IEEE INFOCOM*, may, 2022 [PDF]
- [8] Alessandro FINAMORE, Lixuan YANG, Dario ROSSI, "Method to address extreme class imbalance in AI based classifiers", *Patent PCT/EP2022/059292*
- [7] Jose Manuel NAVARRO, Alexis HUET, Dario ROSSI, "Aggregation of Anomalies in a Network", *Patent PCT/EP2022/057757*
- [6] Zied BEN HOUIDI, Jonatan KROLIKOWSKI, Dario ROSSI, "Network resource control based on neighborhood measurements", *Patent PCT/EP2022/051624*

- [5] 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]
- [4] Dario Rossi, Liang Zhang, "Landing AI on Networks: An equipment vendor viewpoint on Autonomous Driving Networks", *IEEE Transactions on Network and Service Management (TNSM)*, 2022 [PDF]
- [3] Jose Manuel Navarro, Alexis Huet, Dario Rossi, "Rare Yet Popular: Evidence and Implications from Anomaly Detection Datasets", *ITC34*, 2022 [PDF]
- [2] 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)*, 2022 [PDF]
- [1] Zied Ben Houidi, Dario Rossi, "Neural language models for network configuration: Opportunities and reality check", *Elsevier Computer Communication, Vol. (to appear)*, 2022 [PDF]
- 2021: [17] Gioacchini, Luca, Vassio, Luca, Mellia, Marco, Drago, Idilio, Ben Houidi, Zied, Rossi, Dario, "DarkVec: Automatic Analysis of Darknet Traffic with Word Embeddings", *ACM CoNEXT*, December, 2021 [PDF]
- [16] 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]
- [15] Massimo Gallo, Alessandro Finamore, Gwendal Simon, Dario Rossi, "FENXI: Fast In-Network Analytics", *IEEE/ACM Symposium on Edge Computing (SEC)*, Dec., 2021 [PDF]
- [14] 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]
- [13] Giampaolo Bovenzi, Lixuan Yang, Alessandro Finamore, Giuseppe Aceto, Domenico Ciunzo, 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]
- [12] Alexis Huet, Jose Manuel Navarro, Dario Rossi, "Root cause analysis of anomalous events in a computer network", *Patent PCT/EP2021/074381*
- [11] Jose Manuel Navarro, Alexis Huet, Dario Rossi, "Human readable network troubleshooting based on anomaly detection and feature scoring", *Terch.Rep.*, 2021[www]
- [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 and Massimo Gallo and Gwendal Simon and Dario Rossi, "Controller For A Cache And Method For Controlling A Cache", , January, 2021
- [4] Zied Ben Houidi and Dario Rossi and Lorenzo del Sordo and Giulia Milan and Luca Vassio and Marco Mellia and Idilio Drago, "Honeypot entity and method of operating the same", , 2021
- [3] Jose Manuel Navarro and Alexis Huet and Dario Rossi and Andrian Putina and Mauro Sozio, "System and method for combining anomaly detection algorithms", , 2021
- [2] Lixuan Yang and Feng Jun and Dario Rossi, "Device and method for identifying unknown classes for artificial neural networks", , 2021
- [1] Lixuan Yang, and Dario Rossi, "Quality monitoring and assessment of deployed Deep Learning models for Network AIOps", *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 and Dario Rossi, "Method Of Managing Data Transmission For Ensuring Per-Flow Fair Bandwidth Sharing", , October, 2020
- [16] Alexis Huet, Dario Rossi, "Detecting A Network-Induced Contribution To A Quality Of Experience Degradation", , October, 2020
- [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's 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 and Cedric Beliard and Dario Rossi, "Devices, Methods, And System For Heterogeneous Data- Adaptive Federated Learning", , April, 2020
- [5] Jose Manuel Navarro and Dario Rossi, "Device For Monitoring A Computer Network System", , January, 2020
- [4] Alexis Huet and Dario Rossi, "Devices And Methods For Web Quality Evaluation", , January, 2020
- [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. RÃftvÃqri, 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]
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