

Idilio Drago – Curriculum Vitæ

Ph.D. in Computer Science (obtained on 13/12/2013)

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My profile on Google Scholar (**4 109 citations, h-index 25**):

<https://scholar.google.it/citations?user=0K72LOkAAAAJ>

My profile on Scopus (**2 062 citations, h-index 19**):

<https://www.scopus.com/authid/detail.uri?authorId=25926966100>

ASN – Italian “Abilitazione Scientifica Nazionale”

“Settore Concorsuale 01/B1”, obtained on 23/11/2020, valid until 23/11/2029

Italian Scientific Qualification for covering the role of Associate Professor in Computer Science.

“Settore Concorsuale 09/H1”, obtained on 09/09/2019, valid until 09/09/2025

Italian Scientific Qualification for covering the role of Associate Professor in Computer Engineering.

Research Interests

My research interests are in cybersecurity, computer networks, Internet measurements, quality of experience and, above all, how machine learning and AI can be employed to modernize and automate such tasks. My research is centered on the idea that the revolution we witness on the use of AI and data science can make it possible to protect systems and network from attacks and react to failures and malfunctions with promptness proportional to the importance of the Internet to our society.

Background

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| 2009 – 2013 | Ph.D. in Computer Science (obtained on 13/12/2013)
University of Twente, the Netherlands
<i>Understanding and Monitoring Cloud Services</i>
Advisor: Prof.dr.ir. Aiko Pras and Prof.dr.ir. Boudewijn Haverkort
Topics: Cloud storage, Internet measurements

My thesis focused on cloud storage and network measurements. The contributions include methods to monitor the performance of cloud systems as well as practical analyses of cloud storage protocols and their performance bottlenecks. |
| 2005 – 2007 | M.Sc. in Computer Science
UFES – Federal University of Espírito Santo, Brazil
<i>An Experimental Evaluation of Classification Algorithms for Time Series Databases</i>
Advisor: Prof. D.Sc. Flávio Miguel Varejão
Topics: Pattern recognition, time series classification |
| 1998 – 2004 | B.Sc. in Computer Engineering
UFES – Federal University of Espírito Santo, Brazil
<i>Feature Selection for Fraud Identification in the Electric Power Delivery System</i>
Advisor: Prof. Ph.D. Thomas Walter Rauber
Topics: Data mining, feature extraction and selection |

Employment History – Academia

2023 – -	Computer Science Department, University of Turin (Italy) Associate Professor Services: • Scientific Committee Member of the HPC4AI Laboratory • Scientific Board Member of the UniTO PhD in Computer Science • Member of the Cybersecurity National Lab of the Consorzio Nazionale Interuniversitario per l'Informatica (CINI) • Member of Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT)
2020 – 2023	Computer Science Department, University of Turin (Italy) Assistant Professor (RTDb)
2014 – 2019	Politecnico di Torino, Italy Postdoctoral Researcher and Assistant Professor (RTDa) I have focused on multiple EU research projects and partnerships with private companies, such Huawei R&D Center, Cisco, and Narus. Research activities included (i) developing novel network monitoring applications relying on AI and ML approaches; (ii) building efficient systems for monitoring high-speed Internet links, leveraging methods typically employed in cloud storage; (iii) evaluating and improving the performance of networked applications, in particular cloud storage systems.
2009 – 2013	University of Twente, the Netherlands Ph.D. Candidate I developed my PhD thesis on cloud storage and Internet measurements. I was enrolled as a PhD candidate in the “Design and Analysis of Communication Systems” group, which is part of both the Computer Science and the Electrical Engineering departments of the UT.
Jan – Dec 2008	UFES / FCAA – Federal University of Espírito Santo, Brazil Research Assistant I worked as an assistant (masters’ level) in research projects in collaboration with a large oil extraction company in Brazil.

Employment History – Industry

Apr – Nov 2004	Xerox Corporation, Software Development Center, Brazil Software Developer Software Developer for <i>Xerox Corporation</i>
Dec 1998 – Mar 2004	ESCELSA – Energy Company of Espírito Santo, Brazil Web Developer and System Administrator I worked as a System Administrator in what was the first Internet Service Provider (ISP) in my state in Brazil.

Prizes and Invited Talks

- **IRTF Applied Networking Research Prize 2013**
For the paper: “Inside Dropbox: Understanding Personal Cloud Storage Services”.
Published at the 12th ACM SIGCOMM Internet Measurement Conference (IMC 2012).
- **NOMS 2018 invited panelist**
“Big Data and AI - What Are Our Success Stories, Failures, and Open Challenges?”
- **Invited lecture on TMA 2018 PhD School**
“From Packets to Knowledge: Applying Data Science Approaches to Large Scale Passive Measurements”
- **Best Paper Award of PAM 2013**
For the paper: “Measurement Artifacts in NetFlow Data”
- **Workshop on Measurements, Attacks, and Defenses for the Web (MADWeb) 2025**
For the paper: “Can Public IP Blocklists Explain Internet Radiation?”

Research Projects & Collaborations

1. I am the **Coordinator** of the PNRR Cascade Call Project QCPS2 (PE SERICS).
2. I am the **UNITO Coordinator** of the PRIN Project ACRE – AI-Based Causality and Reasoning for Deceptive Assets (grant agreement 2022EP2L7H).
3. I am the **Italian Coordinator** of the EU CHIPS JU project DistriMuse (grant agreement 101139769).
4. I **participated in multiple EU projects** as a researcher: NEXTPerception (EU ECSEL) since 2020, FP7 Integrated Project (IP) “mPlane - an Intelligent Measurement Plane for Future Network and Application Management” (2014-2017), the European COST Action IC0703 “TMA - Traffic Monitoring and Analysis” (2012).
5. I was involved in multiple **research collaborations with the industry**: Active collaboration with Huawei Research Center (Paris) in cybersecurity (since 2020); visiting researcher at Narus Inc., Sunnyvale, CA (in 2014). I worked with Cisco Inc. in cybersecurity projects (2015-2016). I worked in collaborations with Italian ISPs in network traffic analysis (2014-2017).
6. I was a **researcher in HPC4AI**, Center of High-Performance Computing for Artificial Intelligence, a joint project between UniTO e PoliTO funded with EUR 4.5 million to build up new infrastructure and competences for scientific and engineering research on AI, big data and HPC.
7. I am a **participating member** in the CN HPC, *Centro Nazionale di Ricerca in High Performance Computing, Big Data e Quantum Computing*.
8. I was the **co-proponent** of the project “Artificial Intelligence for Spotting Fake Profiles and Anomalous Users’ Behaviors on the Web” selected as one Internationalization Project of PoliTO (Italy) together with the UFMG (Brazil). I visited Prof. Jussara Almeida (UFMG) in 2019 for developing the project.
9. I was a **participating member** of the SmartData@PoliTO, a research center with more than 30 members working on big data and data science applications.

Patents

- M. Baldi, H.H. Song, A. Nucci, M. Mellia, M. Trevisan, I. Drago (2019) Automatic Rule Generation for Flow Management in Software Defined Networking Networks. U.S. Patent Application 15/639,914. Cisco Technology Inc.

Teaching Activities

1. As an **Assistant Professor** at UniTO:

- Computer Architectures (1st year bachelor), since 2020
- Network Security (3rd year bachelor) in 2023
- Algorithms and Data Structures (2nd year bachelor), from 2020 until 2022
- System and Network Security (Master's level), since 2022
- Network Security (Master in Cybersecurity), since 2020

2. As an **Assistant Professor** at PoliTO:

- Laboratory on Networking and Internet Measurements (2019–2020)
- Laboratory on Embedded Communication Systems (2016–2018)
- Laboratory on Simulations, in a course “Management and Content Delivery for Smart Networks” (2016–2019)

I teach in Italian and English, in frontal lectures and laboratories, covering a variety of arguments, from algorithms/data structures, to computer architecture, security and networking. Students' feedback through the universities' evaluation systems have been positive.

3. I have been a **visiting researcher** of the CS Department of the Federal University of Minas Gerais (UFMG) in Brazil (2018–2019). I lectured a course on “Data Science Approaches for Internet Measurements” to Doctorate and Master students.

4. I was a **Teaching Assistant** at the Federal University of Espirito Santo (UFES), Brazil, in 2006, lecturing “Data Structures” to 1st year undergraduate students.

5. I co-supervised and/or collaborated with multiple PhD students:

- Qaisar Farooq (since 2022) working on “Embedded AI”, at UniTO.
- Luca Gioacchini (since 2022) working on “AI-based Representation of Darknet traffic”, in the SmartData@PoliTO Center in collaboration with the Huawei R&D Center (France).
- Matteo Boffa (since 2022) working on “NLP-based Methods to Explain Cyberattacks”, in the SmartData@PoliTO Center in collaboration with the Huawei R&D Center (France).
- Rodolfo Valentin (since 2021) working on “AI-based Squatting and Phishing Protection”, in the SmartData@PoliTO Center.
- Thomas Favale (2019–2022), working on “Cybersecurity and Network Traffic Anonymization”, in the SmartData@PoliTO Center.
- Francesca Soro (2018–2021), who worked with “An AI and data-driven approach to unwanted network traffic inspection”, in the SmartData@PoliTO Center.
- Martino Trevisan (2015–2018), who worked with “Big data methodologies for networking management”, in the SmartData@PoliTO Center.

Academic Services

- I am a **Steering Committee Member** of the Network Traffic Measurement and Analysis (TMA) conference since 2018.
- I am **Associate Editor** of the TNSM journal since 2023.
- I am the **Information Director** of the Proceedings of the ACM on Networking journal (PACMNET) since 2022.
- I am the **local organizer** at UniTO of the **CyberChallenge.IT** since 2023, the Italian cybersecurity training program organized by the CINI Cybersecurity National Lab.
- I was **Publication Chair** of the ACM CoNEXT 2019, the ACM 15th International Conference on emerging Networking EXperiments and Technologies.

- I was a **Technical Programme Committee (TPC) Co-Chair** of the AnNet 2019 – 4th IEEE/IFIP International Workshop on Analytics for Network and Service Management.
- I was a **Technical Programme Committee (TPC) Member** of multiple conferences, including ACM CONEXT, IFIP Networking, SIGCOMM Big-DAMA Workshop, the IEEE IM and IEEE NOMS conferences, the IEEE CNSM, PAM, as well as many other International Workshops.
- I was a member of the **Organization Committee** of MANWEEK 2009 (Local Organizer) and TMA 2016 (PhD School Co-chair).
- I am a regular **reviewer of international journals**, including the *ACM SIGCOMM Computer Communication Review (CCR)*, the *IEEE/ACM Transactions on Networking (TON)*, the *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, the *IEEE Communications Magazine (Commag)*, the *IEEE Journal on Selected Areas in Communications (J-SAC)*, and the *IEEE Transactions on Network and Service Management (TNSM)*.

Languages

Portuguese (native), Italian, English.

Full List of Publications

1. R. Valentim, I. Drago, M. Mellia, and F. Cerutti. X-squatter: AI Multilingual Generation of Cross-Language Sound-squatting. *ACM Transactions on Privacy and Security*, page 3663569, 2024. doi: 10.1145/3663569
2. L. Gioacchini, M. Mellia, L. Vassio, I. Drago, G. Milan, Z. Houidi, and D. Rossi. Cross-network Embeddings Transfer for Traffic Analysis. *IEEE Transactions on Network and Service Management*, page 1, 2024b. doi: 10.1109/TNSM.2023.3329442
3. M. Boffa, I. Drago, M. Mellia, L. Vassio, D. Giordano, R. Valentim, and Z. Houidi. LogPrécis: Unleashing language models for automated malicious log analysis. *Computers & Security*, 141: 103805, 2024. doi: 10.1016/j.cose.2024.103805
4. L. Gioacchini, I. Drago, M. Mellia, Z. Houidi, and D. Rossi. Generic Multi-modal Representation Learning for Network Traffic Analysis, 2024a. URL <http://arxiv.org/abs/2405.02649>. arXiv:2405.02649 [cs]
5. R. Valentim, I. Drago, M. Trevisan, and M. Mellia. URLGEN—Toward Automatic URL Generation Using GANs. *IEEE Transactions on Network and Service Management*, 20(3):3734–3746, 2023c. doi: 10.1109/TNSM.2022.3225311
6. M. Trevisan, F. Soro, M. Mellia, I. Drago, and R. Morla. Attacking DoH and ECH: Does Server Name Encryption Protect Users’ Privacy? *ACM Transactions on Internet Technology*, 23(1):1–22, 2023b. doi: 10.1145/3570726
7. F. Soro, T. Favale, D. Giordano, I. Drago, T. Rescio, M. Mellia, Z. Houidi, and D. Rossi. Enlightening the Darknets: Augmenting Darknet Visibility With Active Probes. *IEEE Transactions on Network and Service Management*, 20(4):5012–5025, 2023. doi: 10.1109/TNSM.2023.3267671
8. L. Gioacchini, L. Vassio, M. Mellia, I. Drago, Z. Houidi, and D. Rossi. i-DarkVec: Incremental Embeddings for Darknet Traffic Analysis. *ACM Transactions on Internet Technology*, 23(3):1–28, 2023. doi: 10.1145/3595378
9. R. Valentim, I. Drago, M. Mellia, and F. Cerutti. Lost in Translation: AI-based Generator of Cross-Language Sound-squatting. In *Proceedings of the IEEE European Symposium on Security and Privacy Workshops, EuroS&PW’23*, pages 513–520, 2023a. doi: 10.1109/EuroSPW59978.2023.00063
10. M. Trevisan, I. Drago, P. Schmitt, and F. Bronzino. Measuring the Performance of iCloud Private Relay. In *Proceedings of the Passive and Active Measurement Conference, PAM’23*, pages 3–17, 2023a

11. R. Valentim, I. Drago, M. Mellia, and F. Cerutti. Sound-skwatter (Did You Mean: Sound-squatter?) AI-powered Generator for Phishing Prevention, 2023b. URL <http://arxiv.org/abs/2310.07005>
12. M. Boffa, L. Vassio, M. Mellia, I. Drago, G. Milan, Z. Houidi, and D. Rossi. On using pretext tasks to learn representations from network logs. In *Proceedings of the 1st International Workshop on Native Network Intelligence*, pages 21–26, 2022b. doi: 10.1145/3565009.3569522
13. E. Amparore, M. Botta, I. Drago, S. Donatelli, and G. Mazzone. Challenges for Driver Action Recognition with Face Masks. In *Proceedings of the IEEE 25th International Conference on Intelligent Transportation Systems, ITSC'22*, pages 1491–1497, 2022. doi: 10.1109/ITSC55140.2022.9921833
14. G. Perna, M. Trevisan, D. Giordano, and I. Drago. A First Look at HTTP/3 Adoption and Performance. *Computer Communications*, 187:115–124, 2022. doi: 10.1016/j.comcom.2022.02.005
15. C. G. Ferreira, F. Murai, A. Silva, M. Trevisan, L. Vassio, I. Drago, M. Mellia, and J. Almeida. On Network Backbone Extraction for Modeling Online Collective Behavior. *PLoS ONE*, 17(9): e0274218, 2022. doi: 10.1371/journal.pone.0274218
16. R. Valentim, I. Drago, F. Cerutti, and M. Mellia. AI-based Sound-Squatting Attack Made Possible. In *Proceedings of the IEEE European Symposium on Security and Privacy Workshops, EuroS&PW'22*, pages 448–453, 2022. doi: 10.1109/EuroSPW55150.2022.00053
17. T. Favale, D. Giordano, I. Drago, and M. Mellia. What Scanners do at L7? Exploring Horizontal Honeypots for Security Monitoring. In *Proceedings of the IEEE European Symposium on Security and Privacy Workshops, EuroS&PW'22*, pages 307–313, 2022. doi: 10.1109/EuroSPW55150.2022.00037
18. M. Boffa, G. Milan, L. Vassio, I. Drago, M. Mellia, and Z. B. Houidi. Towards NLP-based Processing of Honeypot Logs. In *Proceedings of the IEEE European Symposium on Security and Privacy Workshops, EuroS&PW'22*, pages 314–321, 2022a. doi: 10.1109/EuroSPW55150.2022.00038
19. F. Bergadano and I. Drago. AI for Cybersecurity: from Adversarial Anomaly Detection to Intelligent Network Security Systems. In *Proceedings of the Convegno Nazionale CINI sull'Intelligenza Artificiale, ITAL-IA'22*, page 4, 2022
20. T. Guarnieri, I. Drago, I. Cunha, B. Almeida, J. Almeida, and A. Vieira. Modeling Large-Scale Live Video Streaming Client Behavior. *Multimedia Systems*, 27(6):1101–1124, 2021. doi: 10.1007/s00530-021-00788-4
21. G. Gonçalves, I. Drago, A. Vieira, A. Silva, and J. Almeida. A Study of Costs and Benefits of Content Sharing in Personal Cloud Storage. *Journal of Network and Systems Management*, 29(3):30, 2021. doi: 10.1007/s10922-021-09598-5
22. C. Ferreira, F. Murai, A. Silva, J. Almeida, M. Trevisan, L. Vassio, M. Mellia, and I. Drago. On the Dynamics of Political Discussions on Instagram: A Network Perspective. *Online Social Networks and Media*, 25:100155, 2021. doi: 10.1016/j.osnem.2021.100155
23. T. Favale, M. Trevisan, I. Drago, and M. Mellia. a-MON: Traffic Anonymizer for Passive Monitoring. *IEEE Transactions on Network and Service Management*, 18(2):1233–1245, 2021. doi: 10.1109/TNSM.2021.3057927
24. L. Vieira, I. Cunha, A. Vieira, and I. Drago. Caracterização do Impacto de Incidentes de Aplicações em Redes e Usuários. In *Anais do XXVI Workshop de Gerência e Operação de Redes e Serviços, WGRS'21*, pages 40–53, 2021. doi: 10.5753/wgrs.2021.17184
25. R. Valentim, I. Drago, M. Trevisan, F. Cerutti, and M. Mellia. Augmenting Phishing Squatting Detection with GANs. In *Proceedings of the CoNEXT Student Workshop, CoNEXT '21*, pages 3–4, 2021. doi: 10.1145/3488658.3493787
26. M. Trevisan, D. Giordano, I. Drago, and A. Khatouni. Measuring HTTP/3: Adoption and Performance. In *Proceedings of the 19th Mediterranean Communication and Computer Networking Conference, MedComNet'21*, pages 1–8, 2021

27. T. Rescio, T. Favale, F. Soro, M. Mellia, and I. Drago. DPI Solutions in Practice: Benchmark and Comparison. In *Proceedings of the 2021 IEEE Security and Privacy Workshops, SPW'21*, pages 37–42, 2021. doi: 10.1109/SPW53761.2021.00014
28. G. Milan, L. Vassio, I. Drago, and M. Mellia. RL-IoT: Reinforcement Learning to Interact with IoT Devices. In *Proceedings of the IEEE International Conference on Omni-Layer Intelligent Systems, COINS'21*, pages 1–6, 2021. doi: 10.1109/COINS51742.2021.9524260
29. L. Gioacchini, L. Vassio, M. Mellia, I. Drago, Z. Houidi, and D. Rossi. DarkVec: Automatic Analysis of Darknet Traffic with Word Embeddings. In *Proceedings of the 17th International Conference on emerging Networking EXperiments and Technologies, CoNEXT '21*, pages 76–89, 2021. doi: 10.1145/3485983.3494863
30. F. Soro, T. Favale, D. Giordano, L. Vassio, Z. Houidi, and I. Drago. The New Abnormal: Network Anomalies in the AI Era. In *Communication Networks and Service Management in the Era of Artificial Intelligence and Machine Learning*. John Wiley & Sons, Ltd, 2021
31. M. Trevisan, D. Giordano, I. Drago, M. Munafo, and M. Mellia. Five Years at the Edge: Watching Internet from the ISP Network. *IEEE/ACM Transactions on Networking*, 28(2):561–574, 2020a. doi: 10.1109/TNET.2020.2967588
32. M. Trevisan, F. Soro, M. Mellia, I. Drago, and R. Morla. Does Domain Name Encryption Increase Users' Privacy? *ACM SIGCOMM Computer Communication Review*, 50(3):16–22, 2020b. doi: 10.1145/3411740.3411743
33. J. Manzoor, L. Cerdà-Alabern, R. Sadre, and I. Drago. On the Performance of QUIC over Wireless Mesh Networks. *Journal of Network and Systems Management*, 28(4):1872–1901, 2020. doi: 10.1007/s10922-020-09563-8
34. T. Favale, F. Soro, M. Trevisan, I. Drago, and M. Mellia. Campus Traffic and E-Learning During Covid-19 Pandemic. *Computer Networks*, 176:107290, 2020a. doi: 10.1016/j.comnet.2020.107290
35. L. Davoli, M. Martalò, A. Cilfone, L. Belli, G. Ferrari, R. Presta, R. Montanari, M. Mengoni, L. Giraldi, E. Amparore, M. Botta, I. Drago, G. Carbonara, A. Castellano, and J. Plomp. On Driver Behavior Recognition for Increased Safety: A Roadmap. *Safety*, 6(4):55, 2020. doi: 10.3390/safety6040055
36. F. Soro, M. Allegretta, M. Mellia, I. Drago, and L. Bertholdo. Sensing the Noise: Uncovering Communities in Darknet Traffic. In *IEEE Mediterranean Communication and Computer Networking Conference, MedComNet'20*, pages 1–8, 2020. doi: 10.1109/MedComNet49392.2020.9191555
37. C. G. Ferreira, F. Murai, A. Silva, J. Almeida, M. Trevisan, L. Vassio, I. Drago, and M. Mellia. Unveiling Community Dynamics on Instagram Political Network. In *Proceedings of the 12th ACM Conference on Web Science, WebSci '20*, pages 231–240, 2020. doi: 10.1145/3394231.3397913
38. T. Favale, M. Trevisan, I. Drago, and M. Mellia. a-MON: Anonymized Passive Traffic Monitoring. In *Proceedings of the 32nd International Teletraffic Congress, ITC 32*, pages 10–18, 2020b. doi: 10.1109/ITC3249928.2020.00010
39. M. Trevisan and I. Drago. Robust URL Classification With Generative Adversarial Networks. *ACM SIGMETRICS Performance Evaluation Review*, 46(3):143–146, 2019. doi: 10.1145/3308897.3308959
40. M. Trevisan, I. Drago, and M. Mellia. PAIN: A Passive Web Performance Indicator for ISPs. *Computer Networks*, 149:115–126, 2019a. doi: 10.1016/j.comnet.2018.11.024
41. A. D'Alconzo, I. Drago, A. Morichetta, M. Mellia, and P. Casas. A Survey on Big Data for Network Traffic Monitoring and Analysis. *IEEE Transactions on Network and Service Management*, 16(3):800–813, 2019. doi: 10.1109/TNSM.2019.2933358
42. M. Trevisan, L. Vassio, I. Drago, M. Mellia, F. Murai, F. Figueiredo, A. Silva, and J. Almeida. Towards Understanding Political Interactions on Instagram. In *Proceedings of the 30th ACM Conference on Hypertext and Social Media, HT '19*, pages 247–251, 2019b. doi: 10.1145/3342220.3343657

43. F. Soro, I. Drago, M. Trevisan, M. Mellia, J. Ceron, and J. J. Santanna. Are Darknets All The Same? On Darknet Visibility for Security Monitoring. In *Proceedings of the IEEE International Symposium on Local and Metropolitan Area Networks, LANMAN'19*, pages 1–6, 2019. doi: 10.1109/LANMAN.2019.8847113
44. F. Rooke, V. Aquiles, A. Vieira, J. Almeida, and I. Drago. Characterizing Usage Patterns and Service Demand of a Two-Way Car-Sharing System. In *Proceedings of the Workshop on Big Social Data and Urban Computing, BiDU'18*, pages 3–17, 2019. doi: 10.1007/978-3-030-11238-7_1
45. J. Manzoor, L. Cerda-Alabern, R. Sadre, and I. Drago. Improving Performance of QUIC in WiFi. In *Proceedings of the IEEE Wireless Communications and Networking Conference, WCNC'19*, pages 1–6, 2019. doi: 10.1109/WCNC.2019.8886329
46. M. Baldi, H. Song, A. Nucci, M. Mellia, M. Trevisan, and I. Drago. Automatic Rule Generation for Flow Management in Software Defined Networking Networks, 2019
47. L. Vassio, I. Drago, M. Mellia, Z. Houidi, and M. Lamali. You, the Web, and Your Device: Longitudinal Characterization of Browsing Habits. *ACM Transactions on the Web*, 12(4):1–30, 2018. doi: 10.1145/3231466
48. M. Trevisan, I. Drago, M. Mellia, H. Song, and M. Baldi. AWESoME: Big Data for Automatic Web Service Management in SDN. *IEEE Transactions On Network And Service Management*, 15(1):13–26, 2018b. doi: 10.1109/TNSM.2017.2785878
49. M. Trevisan, I. Drago, and M. Mellia. Measuring Web Speed From Passive Traces. In *Proceedings of the Applied Networking Research Workshop, ANRW '18*, pages 83–83, 2018a. doi: 10.1145/3232755.3232780
50. M. Trevisan, D. Giordano, I. Drago, M. Mellia, and M. Munafo. Five Years at the Edge: Watching Internet from the ISP Network. In *Proceedings of the 14th International Conference on Emerging Networking EXperiments and Technologies, CoNEXT'18*, pages 1–12, 2018c. doi: 10.1145/3281411.3281433
51. J. Manzoor, R. Sadre, I. Drago, and L. Cerda-Alabern. Is There a Case for Parallel Connections with Modern Web Protocols? In *Proceedings of the IFIP Networking Conference and Workshops, Networking'18*, pages 1–9, 2018. doi: 10.23919/IFIPNetworking.2018.8696647
52. M. Aldinucci, S. Rabellino, M. Pironti, F. Spiga, P. Viviani, M. Drocco, M. Guerzoni, G. Boella, M. Mellia, P. Margara, I. Drago, R. Marturano, G. Marchetto, E. Piccolo, S. Bagnasco, S. Lusso, S. Vallero, G. Attardi, A. Barchiesi, A. Colla, and F. Galeazzi. HPC4AI: An AI-on-Demand Federated Platform Endeavour. In *Proceedings of the 15th ACM International Conference on Computing Frontiers, CF '18*, pages 279–286, 2018. doi: 10.1145/3203217.3205340
53. I. Drago, M. Mellia, and A. D'Alconzo. Big Data in Computer Network Monitoring. In *Encyclopedia of Big Data Technologies*. Springer International Publishing, Cham, 2018. doi: 10.1007/978-3-319-63962-8_26-1
54. E. Bocchi, I. Drago, and M. Mellia. Personal Cloud Storage Benchmarks and Comparison. *IEEE Transactions on Cloud Computing*, 5(4):751–764, 2017. doi: 10.1109/TCC.2015.2427191
55. M. Trevisan, I. Drago, and M. Mellia. PAIN: A Passive Web Speed Indicator for ISPs. In *Proceedings of the Workshop on QoE-based Analysis and Management of Data Communication Networks, SIGCOMM '17 Workshops*, pages 7–12, 2017a. doi: 10.1145/3098603.3098605
56. M. Trevisan, I. Drago, M. Mellia, and M. Munafo. Automatic Detection of DNS Manipulations. In *Proceedings of the IEEE International Conference on Big Data, BigData'17*, pages 4010–4015, 2017b. doi: 10.1109/BigData.2017.8258415
57. J. Manzoor, I. Drago, and R. Sadre. How HTTP/2 Is Changing Web Traffic and How to Detect It. In *Proceedings of the Network Traffic Measurement and Analysis Conference, TMA'17*, pages 1–9, 2017. doi: 10.23919/TMA.2017.8002899
58. T. Guarnieri, I. Drago, A. Vieira, I. Cunha, and J. Almeida. Characterizing QoE in Large-Scale Live Streaming. In *Proceedings of the IEEE Global Communications Conference, GLOBECOM'17*, pages 1–7, 2017. doi: 10.1109/GLOCOM.2017.8254062

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