

netCommons
Network Infrastructure as Commons

Report on the publications and data download, use, and citation

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Executive summary

This deliverable briefly reviews the results of the project in terms of number of publications, their download and correlated metrics, open datasets available. Data related to publications are extracted from available sources: the project website, Google Scholar and the Zenodo platform. The project produced 99 publications that were cited 218 times, and 2 data sets downloaded 404 times. About 14% of the publications were joint publications, and 26% included researchers from external entities, most notably members of the CNs involved in netCommons. Even if research results can not be evaluated on a purely numerical base, especially those coming from a inter/transdisciplinary project like netCommons, we consider these results fully satisfactory. Citation indexes in particular will keep increase in the coming years, as it is well known (and obvious) that scientific work reach its maximum impact after 3–10 years depending on the topic, its foundational/overview nature, the novelty and many other parameters.

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1 Introduction

The deliverable analyses the number of publications, citations, downloads and the website statistics. Publications measure essentially the productivity of the research part of netCommons, while other dissemination means, impact on communities, influence on policy-making bodies are reported in Deliverables 6.1, 6.2 and 6.3. We consider the scientific production of netCommons overall very good both in quantity and in quality. The targets foreseen in the Description of Action have all been met. The reported numbers on citations are fully satisfying, also considering the fact that citations to papers need time to emerge, as the results need to reach the scientific communities we are part of, and most of all works based on our research need time to be executed and published. Normally, citations in the first year are doubled each year for several years (3 to 10), thus many of the works produced with the support of netCommons have the potential of reaching several tens and in some cases hundreds of citations, making a big impact on the scientific community.

1.1 Summary of Downloads, Publications and Citations

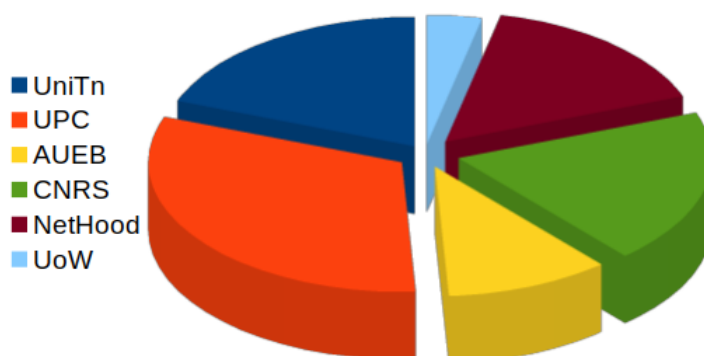


Figure 1.1: Distribution of the publications per partner.

In netCommons we produced 99 publications including Book Chapters, Conference Proceedings and Presentations, Journal articles, Tutorials, Thesis and Demos, all of them are reported in this deliverable. This number includes publications that are in press, or still awaiting for the review process to finish, so it may differ from the ones uploaded on the participant portal. Several more publications are still undergoing and will be submitted shortly after the end of the project.

Tab. 1.1 reports the list of publications with at least one citation extracted from Google Scholar. We have a total of 218 citations shared among 42 papers, and the H-index of the project equals 9. Not all the publications are yet indexed in scientific repositories, so we expect this number to grow in the next months and years as already noted. A simple extrapolation from average citation trends puts the overall citations to netCommons supported papers between 2000 and 4000 in five years from now, and twice as much or more in ten years. Chapter 2 reports the full list of publications divided by year.

Among all the 99 publications, 14 were joint publications with 2 or more partners of the project,. Tab. 1.2

| cit #. | Publication Title |
|--------|---|
| 20 | Making Community Networks Economically Sustainable: The Guifi.net Experience |
| 16 | Practical Service Placement Approach for Microservices Architecture |
| 14 | Cloudy in guifi.net: Establishing and sustaining a community cloud as open commons |
| 13 | Sustainability and community networks |
| 10 | Local networks for local interactions: Four reasons why and a way forward |
| 10 | On the Computation of Centrality Metrics for Network Security in Mesh Networks |
| 9 | Community Networks: Legal Issues, Possible Solutions and A Way Forward in the European Context |
| 9 | A Commons-oriented Framework for Community Networks |
| 9 | Efficient Collaboration between Government, Citizens and Enterprises in Commons Telecommunication Infrastructures |
| 9 | Towards Network-Aware Service Placement in Community Network Micro-Clouds |
| 7 | Mobile Crowdsensing Incentives Under Participation Uncertainty |
| 7 | Client-Side Routing-Agnostic Gateway Selection for heterogeneous Wireless Mesh Networks |
| 7 | Wireless Community Networks: Towards a Public Policy for the Network Commons? |
| 7 | Incentivizing social media users for mobile crowdsourcing |
| 7 | Mobile crowdsensing incentives under participation uncertainty |
| 7 | Alt. vs. ctrl.: Editorial notes for the JoPP issue on alternative Internets |
| 6 | A Lightweight Service Placement Approach for Community Network Micro-Clouds |
| 4 | Sustainability and Participation in the Digital Commons |
| 4 | Bandwidth-aware Service Placement in Community Network Clouds |
| 3 | Optimized P2P Streaming for Wireless distributed Networks |
| 3 | On the Use of Eigenvector Centrality for Cooperative Streaming |
| 3 | Community Sharing of Spare Network Capacity |
| 3 | Optimized Cooperative Streaming in Wireless Mesh Networks |
| 3 | Peer to party: Occupy the law |
| 3 | Coordinated detection of forwarding faults in Wireless Community Networks |
| 2 | Gossip-based Service Monitoring Platform for Wireless Edge Cloud Computing |
| 2 | A dynamic and autonomous channel selection strategy for interference avoidance in 802.11 |
| 2 | On the Distributed Computation of Load Centrality and Its Application to DV Routing |
| 2 | Proof of Networking: Can Blockchains Boost the Next Generation of Distributed Networks? |
| 2 | On the Technical and Social Structure of Community Networks |
| 2 | Where have all the MPRs gone? On the optimal selection of Multi-Point Relays |
| 2 | Community Networks and Sustainability: a Survey of Perceptions, Practices, and Proposed Solutions |
| 2 | Enabling Individually Entrusted Routing Security for Open and Decentralized Community Networks |
| 1 | Information Technology and Sustainability in the Information Society |
| 1 | Design Trade-offs of Crowdsourced Web Access in Community Networks |
| 1 | The Organic Internet: Building Communications Networks from the Grassroots |
| 1 | Alternative Internet Networks: History and Legacy of a Crazy Idea |
| 1 | Cooperation in Open, Decentralized, and Heterogeneous Computer Networks |
| 1 | On the Feasibility of Collision Detection in Full-Duplex 802.11 Radio |
| 1 | Blockchain for Economically Sustainable Wireless Mesh Networks |
| 1 | 5G and the Internet of Everyone: Motivation, Enablers, and Research Agenda |
| 1 | Improving Routing Convergence With Centrality: Theory and Implementation of Pop-Routing |

Table 1.1: The list of all the publications with citations on Google Scholar, updated in Jan 2019. In red the one marking the project h-index.

reports the number of joint publications between partners' pairs. Every partner published at least one work with 4 different partners (note that the table is symmetric and the the total number is larger than 14, as publications with more than two partners are counted multiple times).

| | UniTN | UPC | AUEB | UoW | NetHood | CNRS |
|---------|-------|-----|------|-----|---------|------|
| UniTN | - | 5 | 3 | 1 | 1 | 4 |
| UPC | 5 | - | 4 | 2 | 4 | 1 |
| AUEB | 3 | 4 | - | 1 | 1 | |
| UoW | 1 | 2 | 1 | - | 2 | 1 |
| NetHood | 1 | 4 | 1 | 2 | - | 4 |
| CNRS | 4 | 1 | | 1 | 4 | - |

Table 1.2: Number of joint publications per couples of partners.

The project supported 26 publications co-authored by researchers, activists, or practitioners coming from institutions not involved in the project directly. We have joint publications with CNs (Guifi), global associations (the Association for Progressive Communications, APC), Companies (Here, Spazio Dati, AMMBR Tech), and universities from 3 continents (several European ones, Bahia Blanca from Argentina and the Qatar Research Institute). We also have 12 publications co-authored with members of the AB, and joint publications with four H2020 projects (Pie-News, EMPATIA, U-Mobile, MAZI).

Deliverables 6.1, 6.2, and 6.3 report in detail all the publications, with a brief description for each one. All the mentioned papers have been published with a green or gold open access method. Some of the partners can access institutional repositories that host the publications, for those that don't have this option, we used the [Zenodo.org](https://zenodo.org) platform.

1.2 Open Data

| Title | Views | Downloads | Published | DOI |
|--|-------|-----------|-----------|---|
| Topologies collected from 3 Community Networks | 59 | 17 | 4/2018 | 10.5281/zenodo.1218746 |
| Survey on Internet attitudes | 66 | 405 | 8/2018 | 10.5281/zenodo.1294040 |

Table 1.3: Table of Open Data objects published in the project

We also published two open data sets, as the results of two publications on the topologies of several community networks and and the on-line survey carried out in WP5. Tab. 1.3 summarises the data regarding the open data objects, which collectively got 422 downloads starting April 2018. The difference in the number of downloads is due to the two completely distinct fields of application, much more specific the first one, much more generic the second one. Moreover, the link to the survey data [10.5281/zenodo.1294040](https://doi.org/10.5281/zenodo.1294040) has been explicitly added to several document, and this justify the number of downloads larger than the number of views to the relative page.

1.3 Website Statistics

The project website netcommons.eu was placed on-line at the very beginning of the project in a temporary form and took the current style April 2016. Fig. 1.2 shows the statistics extracted from the web server, and purged of access entries coming from bots. In the three-years span of the project we received 5,160,331 valid requests to

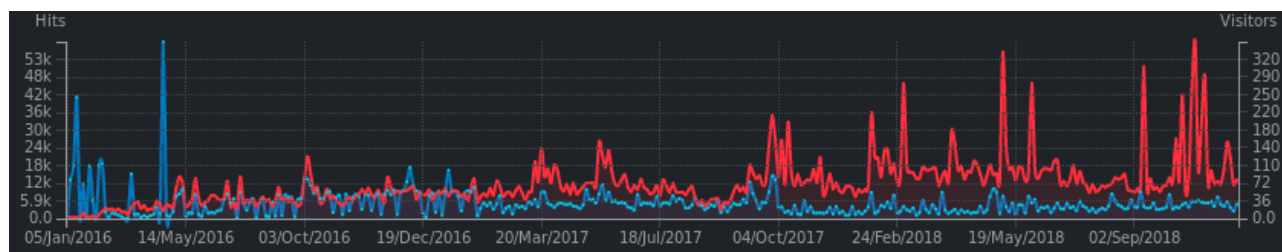


Figure 1.2: The access statistics of the website, red: visitors, blue: hits.

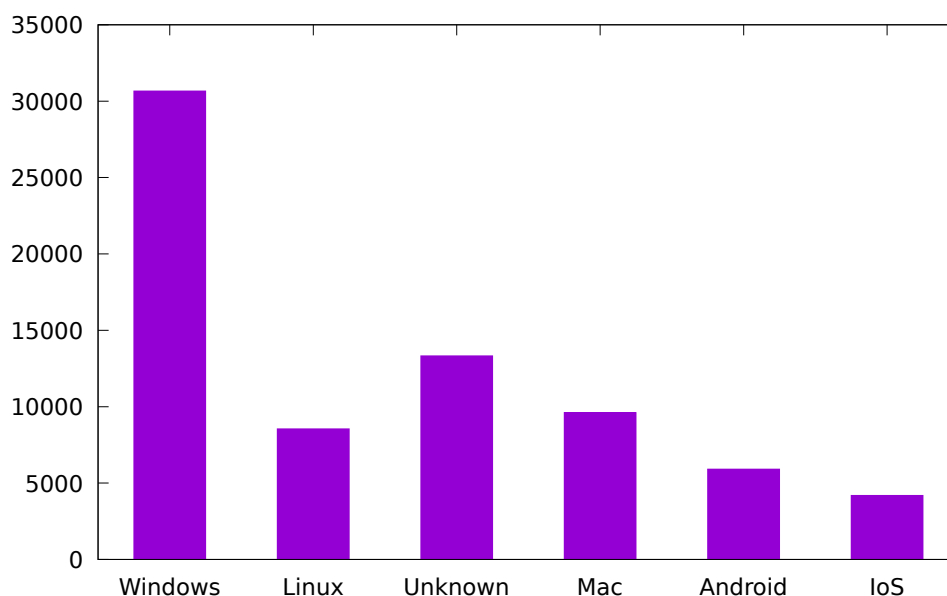


Figure 1.3: Unique visitors divided by operating system.

72,718 unique visitors for an average of 66 unique visitors per day, with a maximum value of 359 visitors per day. We know that identifying unique visitors is not an exact science, but we are fully satisfied by the increasing interest that our website produced in the general public.

As expected, Fig. 1.3 shows that the majority of the visitors use a MS operating systems, which suggests that the project was visited by people with a diverse background (not only techies that primarily use Linux or Mac OSs).

1.4 Conclusion

The scientific work of netCommons, as per the Description of Action (Table 2.2.1) was meant to reach different communities and to be published in top level venues. The outcome of the project fully meet the initial intentions, as most of the publications are on the high impact venues declared there. Furthermore, as the data presented in this document shows, the work has been both inter- and trans- disciplinary, with joint scientific contributions among partners with different scientific background. We recall that one of the risks explicitly mentioned in the DoA was the difficulty to reach a commons scientific language and understanding between researchers of different areas: the risk has clearly not materialized.

netCommons has also maintained contacts with other CAPS projects and a very good collaboration with the Advisory Board, to the point where several scientific works see members of the AB as co-authors. Also the global collaboration network of netCommons has been organized maintained at the highest possible level, with

joint works between netCommons researchers and members of ISOC, GAIA and other global pro-Internet freedom organizations.

2 List of Publications

2.1 Third Year: 2018

2.1.1 Book Chapters

- 1) Roger Baig-Viñas, Leandro Navarro, and Ramon Roca-i-Tió. “Multiple Dimensions of Community Network Scalability”. In Luca Belli, editor, *The community network manual: how to build the Internet yourself*, pages 133–158. FGV Direito Rio Edition, Nov 2018. ISBN 9788595970298. URL <http://bibliotecadigital.fgv.br/dspace/handle/10438/25696>
- 2) Félix Tréguer. “Federating Community Networks: A case study from France”. In Luca Belli, editor, *The community network manual: how to build the Internet yourself*, pages 159–176. FGV Direito Rio Edition, Nov 2018. ISBN 9788595970298. URL <http://bibliotecadigital.fgv.br/dspace/handle/10438/25696>
- 3) Virginie Aubrée and Mélanie Dulong de Rosnay. “Fostering sustainability of Community Networks: Guidelines to Respect the European Legal Framework”. In Luca Belli, editor, *The community network manual: how to build the Internet yourself*, pages 177–188. FGV Direito Rio Edition, 2018
- 4) Panayotis Antoniadis, Jens Martignoni, Leandro Navarro, and Paolo Dini. “Complementary Networks Meet Complementary Currencies: Guifi.net Meets Sardex.net”. In Luca Belli, editor, *The community network manual: how to build the Internet yourself*, pages 189–222. FGV Direito Rio Edition, Nov 2018. ISBN 9788595970298. URL <http://bibliotecadigital.fgv.br/dspace/handle/10438/25696>
- 5) Panayotis Antoniadis and Jens Martignoni. “What Could Blockchain do for Community Networks”. In Luca Belli, editor, *The community network manual: how to build the Internet yourself*, pages 223–248. FGV Direito Rio Edition, 2018
- 6) Steve Song, Carlos Rey-Moreno, Anriette Esterhuysen, Mike Jensen, and Leandro Navarro. “Introduction: The rise and fall and rise of community networks”. volume 1. Association for Progressive Communications, November 2018. ISBN 978-92-95113-06-0. URL <https://www.giswatch.org/community-networks>
- 7) Leandro Navarro, Leonardo Maccari, and Renato Lo Cigno. “At the limits of the internet: Technology options for community networks”. volume 1. Association for Progressive Communications, November 2018. ISBN 978-92-95113-06-0. URL <https://www.giswatch.org/community-networks>
- 8) Roger Baig, Leandro Navarro, Ramon Roca, and Felix Freitag. “Catalonia, guifi.net: scaling up a community network”. volume 1. Association for Progressive Communications, November 2018. ISBN 978-92-95113-06-0. URL <https://www.giswatch.org/community-networks>
- 9) Leandro Navarro. “Network infrastructures: The commons model for local participation, governance and sustainability”. Association for Progressive Communications, Feb. 2018. URL <https://www.apc.org/en/pubs/network-infrastructures-commons-model-local-participation-governance-and-sustainability>
- 10) Panayotis Antoniadis. “The Organic Internet as a Resilient Practice”. In Kim Trogal, Irena Bauman, Randal Lawrence, and Doina Petrescu, editors, *Architecture and Resilience: Interdisciplinary Dialogues*. Routledge, 2018. ISBN 978-1-138-06581-9. URL <https://www.routledge.com/Architecture-and-Resilience-A-Series-of-Interdisciplinary-Dialogues/Trogal-Bauman-Lawrence-Petrescu/p/book/9781138065819>

2.1.2 Journal Papers

- 11) Leonardo Maccari. “Detecting and Mitigating Points of Failure in Community Networks: a Graph-based Approach”. *Accepted for publication on IEEE Transactions on Computational Social Systems*, 2019
- 12) Mennan Selimi, L Cerdà-Alabern, Felix Freitag, L Veiga, Arjuna Sathiaselan, and J Crowcroft. “A Lightweight Service Placement Approach for Community Network Micro-Clouds”. *Journal of Grid Computing*, 2018. ISSN 1570-7873. doi: 10.1007/s10723-018-9437-3
- 13) Roger Baig, Felix Freitag, and Leandro Navarro. “Cloudy in guifi.net: Establishing and sustaining a community cloud as open commons”. *Future Generation Computer Systems*, 87:868–887, Oct. 2018. doi: 10.1016/j.future.2017.12.017
- 14) Ester López and Leandro Navarro. “Coordinated detection of forwarding faults in Wireless Community Networks”. *Journal of Network and Computer Applications*, 109:66–77, 2018
- 15) Panagiota Micholia, Merkouris Karaliopoulos, Iordanis Koutsopoulos, Leandro Navarro, Roger Baig, Dimitris Boucas, Maria Michalis, and Panayiotis Antoniadis. Community Networks and Sustainability: a Survey of Perceptions, Practices, and Proposed Solutions. *IEEE Communications Surveys & Tutorials*, 20, March 2018. doi: 10.1109/COMST.2018.2817686
- 16) Axel Neumann, Leandro Navarro, and Llorenç Cerdà-Alabern. Enabling Individually Entrusted Routing Security for Open and Decentralized Community Networks. *Ad Hoc Networks*, 79:20–42, Oct. 2018. doi: 10.1016/j.adhoc.2018.06.014
- 17) Leonardo Maccari, Mirko Maischberger, and Renato Lo Cigno. Where have all the MPRs gone? On the optimal selection of Multi-Point Relays. *Ad Hoc Networks, Elsevier*, 77:69–83, Aug. 2018. ISSN 1570-8705. doi: 10.1016/j.adhoc.2018.04.012. URL <http://www.sciencedirect.com/science/article/pii/S1570870518301537>
- 18) Leonardo Maccari and Renato Lo Cigno. “Improving Routing Convergence With Centrality: Theory and Implementation of Pop-Routing”. *IEEE/ACM Transactions on Networking*, 26:2216–2229, Oct. 2018. ISSN 1063-6692. doi: 10.1109/TNET.2018.2865886. URL <https://ieeexplore.ieee.org/document/8457534>
- 19) Ramon Roca, Lluís Dalmau, Roger Baig, and Leandro Navarro. “Modelo de implantação de Rede Universal para Conectividade Universal”. *poliTICs*, 2(28), 2018. ISSN 1984-8803. URL <https://politics.org.br/edicoes/modelo-de-implanta%C3%A7%C3%A3o-de-rede-universal-para-conectividade-universal>
- 20) Stefano Crabu and Paolo Magaudda. Bottom-up infrastructures: Aligning politics and technology in building a wireless community network. *Computer Supported Cooperative Work (CSCW)*, 27(2):149–176, Apr 2018. ISSN 1573-7551. doi: 10.1007/s10606-017-9301-1. URL <https://doi.org/10.1007/s10606-017-9301-1>
- 21) P. Travlou, P. Antoniadis, and Anastasopoulos N. Peer production in the hybrid city: Editorial notes for the jopp issue on city. *Journal of Peer Production*, (11), 2018. URL <http://peerproduction.net/issues/issue-11-city/editorial-notes/> (non peer-reviewed)

2.1.3 Conference with Proceedings

- 22) Leonardo Maccari, Merkouris Karaliopoulos, Iordanis Koutsopoulos, Leandro Navarro, Fèlix Freitag, and Renato Lo Cigno. “5G and the Internet of Everyone: Motivation, Enablers, and Research Agenda”. In *IEEE European Conference on Networks and Communications (EuCNC)*, pages 429–433, June 18–21 2018. doi: 10.1109/EuCNC.2018.8443200. URL <https://ieeexplore.ieee.org/document/8443200>
- 23) Lorenzo Maccari, Leonardo Ghio, Alessio Guerrieri, Alberto Montresor, and Renato Lo Cigno. On the Distributed Computation of Load Centrality and Its Application to DV Routing. In *37th Annual IEEE*

International Conference on Computer Communications (INFOCOM), Honolulu, HI, USA, Apr. 2018 – To appear

- 24) Lorenzo Ghio, Leonardo Maccari, and Renato Lo Cigno. “Proof of Networking: Can Blockchains Boost the Next Generation of Distributed Networks?”. In *14th IFIP/IEEE Annual Conf. on Wireless On-demand Network Systems and Services (WONS)*, pages 29–32, Isola 2000, France, Jan. 2018. ISBN 978-3-903176-02-7. URL <http://dl.ifip.org/db/conf/wons/wons2018/index.html>
- 25) A. M. Khan, F. Freitag, V. Vlassov, and P.H. Ha. “Demo abstract: Towards IoT service deployments on edge community network microclouds”. In *IEEE INFOCOM 2018 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)*, pages 1–2, Apr. 2018. doi: 10.1109/INFOCOMW.2018.8406840
- 26) Felix Freitag. On the Collaborative Governance of Decentralized Edge Microclouds with Blockchain-based Distributed Ledgers. In *BCT4MAS 2018 - 1st International Workshop on Block Chain Technologies 4 Multi-Agent Systems (BCT4MAS) at WI 2018*, Dec. 2018
- 27) Khulan Batbayar, Emmanouil Dimogerontakis, Roc Meseguer, Leandro Navarro, Esunly Medina, and Rodrigo M. Santos. The RIMO Gateway Selection Approach for Mesh Networks: Towards a Global Internet Access for All. *MDPI Proceedings*, 2, 2018. ISSN 2504-3900. doi: 10.3390/proceedings2191258. URL <http://www.mdpi.com/2504-3900/2/19/1258>
- 28) K. Batbayar, R. Meseguer, L. Navarro, R. Sadre, and E. Dimogerontakis. “Collaborative informed gateway selection in large-scale and heterogeneous networks”. In *IFIP/IEEE International Symposium on Integrated Network Management (IM)*, Apr. 2019. URL N/A
- 29) Merkouris Karaliopoulos and Iordanis Koutsopoulos. “Mobile App User Choice Engineering Using Behavioral Science Models”. In *Proc. 19th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2018*, pages 1–5, June 2018
- 30) Iordanis Koutsopoulos. “Incentive allocation to sequential decision-making sensors in Mobile Crowdsensing”. In *IEEE International Conference on Pervasive Intelligence and Computing (PICom)*, pages 1–5, Aug. 2018. doi: 10.1109/DASC/PiCom/DataCom/CyberSciTec.2018.00-18. URL <http://cyber-science.org/2018/picom/>
- 31) Iordanis Koutsopoulos. “The impact of Social-network diffusion on wireless edge resource allocation”. In *International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM) 2018*, pages 1–3, June 2018. doi: 10.1109/WoWMoM.2018.8449791
- 32) Luca Baldesi, Leonardo Maccari, and Renato Lo Cigno. “On the Properties of Infective Flooding in Low-Duty-Cycle Networks”. In *15th IFIP/IEEE Annual Conf. on Wireless On-demand Network Systems and Services (WONS)*, Jan. 2019. URL <http://2019.wons-conference.org/>

2.1.4 Conference Presentations

- 33) Renato Lo Cigno. Wireless 2035: New Technologies or New Architectures? “IEEE European Conference on Networks and Communications (EuCNC) – Invited Speech”, June 18–21 2018
- 34) Ileana Apostol, Panayotis Antoniadis, and Thomas Raoseta. “The right to the hybrid city: central space as a commons”, 2018. URL <http://www.transdisciplinarity.ch/td-net/Veranstaltungen/ITD-CH-2018/Posters.html>. Poster paper presented at the Swiss Inter-Transdisciplinarity Day 2018 with theme “Inter- and Transdisciplinarity in a Digital World”

2.1.5 Others / Miscellanea

- 35) Merkouris Karaliopoulos, Iordanis Koutsopoulos, Leonardo Maccari, Renato Lo Cigno, and Leandro

Navarro. “Wireless Community networks and 5G: the 7-Billion-user challenge”. IEEE European Conference on Networks and Communications (EuCNC) – Tutorial, June 18–21 2018

2.1.6 Works In Press

- 36) Melanie Dulong de Rosnay. “Regard sur le droit et les communs : un droit pair-à-pair”. In Danièle Bourcier, Jacques Chevallier, Gilles Hériard Dubreuil, Sylvain Lavelle, and Emmanuel Picavet, editors, *Dynamiques du Commun. État, Marché et Société*. Publications de la Sorbonne, 2020. in press
- 37) Félix Tréguer and Dominique Trudel. “From Internet Access Provision to Political Advocacy: The History of the French Data Network”. *Histoire et informatique*. in press
- 38) Félix Tréguer, Dominique Trudel, and Melanie Dulong de Rosnay. “Learning from the History of Alternative Networks”. *Journal of Alternative and Community Networks*. in press
- 39) Aris Pilichos, Merkouris Karaliopoulos, and Iordanis Koutsopoulos. From Community Networks to Community Data: The AppLea Farming Mobile App. In *European Conference on Networks and Communications (poster)*, Ljubljana, Slovenia, June 2018. doi: 10.5281/zenodo.2562790. URL <https://doi.org/10.5281/zenodo.2562790>

2.1.7 Works Invited for Publication

- 40) Panayotis Antoniadis, Dimitris Dimitar, and Melanie Dulong de Rosnay. “CNs and the Commons”, . Invited for inclusion in the edited book ”Our Commons: Political Commons-Ideas For A New Europe” by Thomas De Groot

2.1.8 Works Under Review

- 41) Leonardo Maccari, Gabriele Gemmi, Renato Lo Cigno, Merkouris Karaliopoulos, and Leandro Navarro. “Assistive Growth: Towards Scalable Community Networks Topologies”. *Submitted to Ad Hoc Networks*
- 42) Mennan Selimi, Adisorn Lertsinsruttavee, Arjuna Sathiaselan, Llorenc Cerdà-Alabern, and Leandro Navarro. “PiCasso: Enabling Information-Centric Multi-tenancy at the Network’s Edge”, Jan. 2019. URL <https://www.journals.elsevier.com/computer-networks>
- 43) Aniruddh Rao Kabbinala, Emmanouil Dimogerontakis, Mennan Selimi, Anwaar Ali, Leandro Navarro, and Arjuna Sathiaselan. Blockchain for Economically Sustainable Wireless Mesh Networks. *Under review in Concurrency and Computation: Practice and Experience*, 2018. URL <https://onlinelibrary.wiley.com/journal/15320634>
- 44) Merkouris Karaliopoulos and Iordanis Koutsopoulos. Collective subscriptions: towards sustainable funding of community network infrastructures, 2019. URL <http://www.wi-opt.org/>
- 45) Merkouris Karaliopoulos and Iordanis Koutsopoulos. “Infrastructure and service provider games in crowdsourced networks”, 2019. URL <https://www.sigmobile.org/mobihoc/2019/>
- 46) Leandro Navarro, Ignacio Castro, Arjuna Sathiaselan, Emmanouil Dimogerontakis, Mennan Selimi, Felix Freitag, and Roger Baig. “Blockchain models for universal connectivity”. *Under review in Telecommunications Policy Journal*, -(-), 2018. ISSN 1084-8045. URL <https://www.journals.elsevier.com/journal-of-network-and-computer-applications>
- 47) Melanie Dulong de Rosnay, Félix Tréguer, and Panayotis Antoniadis. “Commonswashing by information technologies and online platforms, the semantic appropriation of the commons”. Submitted to the International Association on the Study of the Commons (IASC) 2019 conference

2.1.9 Works Under Submission

- 48) Félix Tréguer and Melanie Dulong de Rosnay. “The Political Defence of the Commons: The Case of Community Networks”. To be submitted to a journal on communications and policy
- 49) Melanie Dulong de Rosnay. “Community Networks: From Top-Down Citizen Science to Bottom-Up Citizen Policy Makerspaces”. To be submitted to a Science and Technology Studies journal
- 50) Stefano Crabu, Melanie Dulong de Rosnay, and Paolo Magaudda. “Socio-technical governance of Community networks as co-produced commons. A comparative research”. To be submitted to a Communication Science journal
- 51) Virginie Aubrée and Melanie Dulong de Rosnay. “The Aftermath of Digital Rights Ireland and Tele2 ECJ cases: a diversity of data retention national practices”. To be submitted to a Law and tech journal
- 52) Ileana Apostol, Panayotis Antoniadis, and Thomas Raoseta. “The right to the hybrid city: Central space as a commons”. To be submitted at an Urban Studies journal
- 53) Panayotis Antoniadis, Ileana Apostol, and Alexandros Papageorgiou. Reflection-in-action in participatory design, . To be submitted at C&T Conference, 3-7 June 2019, Vienna

2.1.10 Books

- 54) Jens Martignoni. *Das Geld neu erfinden: Alternative Währungen verstehen und nutzen*. Versus Verlag, 2018. ISBN 978-3-03909-228-4

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- 1) Panayotis Antoniadis. The Organic Internet: Building Communications Networks from the Grassroots. In Vincenzo Giorgino and Zachary Walsh, editors, *Co-Designing Economies in Transition*, chapter 13, pages 235–272. Palgrave Macmillan, New York, 2017. ISBN 978-3-319-66591-7. doi: 10.1007/978-3-319-66592-4. URL https://link.springer.com/chapter/10.1007/978-3-319-66592-4_13

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- 2) Federica Giovanella and Mélanie Dulong de Rosnay. Community wireless networks, intermediary liability and the McFadden CJEU case. *Communications Law*, 22, 2017. ISSN 17467616. URL <https://halshs.archives-ouvertes.fr/halshs-01478116>
- 3) Félix Tréguer. Gaps and bumps in the political history of the internet. *Internet Policy Review*, 6, 2017. doi: 10.14763/2017.4.714. URL <https://policyreview.info/articles/analysis/gaps-and-bumps-political-history-internet>
- 4) Christian Fuchs. Information technology and sustainability in the information society. *International Journal of Communication*, 11:2431–2461, 2017. URL <http://ijoc.org/index.php/ijoc/article/view/6827/2057>
- 5) Leonardo Maccari, Nicolò Facchi, Luca Baldesi, and Renato Lo Cigno. Optimized p2p streaming for wireless distributed networks. *Elsevier Journal of Pervasive and Mobile Computing*, June, 2017. ISSN 1574-1192. doi: 10.1016/j.pmcj.2017.05.006. URL <https://ans.disi.unitn.it/users/maccari/assets/files/bibliography/Maccari2017Optimized.pdf>

- 6) David Franquesa and Leandro Navarro. Sustainability and participation in the digital commons. *Interactions*, 24:66–69, 2017. ISSN 1072-5520. doi: 10.1145/3058139. URL <http://doi.acm.org/10.1145/3058139>
- 7) Luca Baldesi, Leonardo Maccari, and Renato Lo Cigno. On the use of eigenvector centrality for cooperative streaming. *IEEE Communication Letters*, June 2017. ISSN 1089-7798. doi: 10.1109/LCOMM.2017.2713361. URL <https://ans.disi.unitn.it/users/maccari/assets/files/bibliography/Baldesi2017Optimal.pdf>
- 8) Panayotis Antoniadis. How to build an organic internet and stand up to corporations. *The Conversation Global*, 2017. URL <https://theconversation.com/how-to-build-a-more-organic-internet-and-stand-up-to-corporations-70815>

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- 10) Michele Segata and Renato Lo Cigno. On the feasibility of collision detection in full-duplex 802.11 radio. In *13th Wireless On-demand Network systems and Services Conference (WONS 2017)*, pages 1–8, Jackson Hole, Wyoming, USA, Feb/2017 2017. IFIP/IEEE, IFIP/IEEE. ISBN 978-3-901882-88-3. doi: 10.1109/WONS.2017.7888755. URL <http://2017.wons-conference.org/Papers/1570314845.pdf>
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- 19) Panayotis Antoniadis, Jens Martignoni, Roger Baig, David Franquesa, and Leandro Navarro. Community currencies for community networks. In *IV International Conference on Social and Complementary Currencies: Money, Consciousness and Values for Social Change*, Barcelona, Spain, 2017. Universitat Oberta de Catalunya, Universitat Oberta de Catalunya. URL http://nethood.org/slides/barcelona_currencies/antoniadis_et_al_barcelona_paper_draft.pdf
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2.2.5 Ph.D Thesis

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- 22) Emmanouil Dimogerontakis. *Internet sharing in community networks*. PhD thesis, UPC, Barcelona, 05/2017 2017. URL <http://www.tdx.cat/bitstream/handle/10803/406353/TED1de1.pdf>
- 23) Félix Tréguer. Pouvoir et résistance dans l'espace public : une contre-histoire d'Internet (XVe-XXIe siècle). Phd, CRH-EHESS, Paris, 2017. URL <https://halshs.archives-ouvertes.fr/tel-01631122/document>

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- 3) Leandro Navarro, Felix Freitag, Emmanouil Dimogerontakis, Roger Baig, Ramon Roca, Renato Lo Cigno, Leonardo Maccari, Panayotis Antoniadis, Maria Michalis, Melanie Dulong de Rosnay, Félix Tréguer. (2016). Efficient Collaboration between Government, Citizens and Enterprises in Commons Telecommunication Infrastructures. In Luca Belli (editor), *Community Connectivity: Building the Internet from Scratch*, Annual Report of the UN IGF Dynamic Coalition on Community Connectivity, FGV Direito Rio Edition
- 4) Federica Giovanella. (2016). Community Networks: Legal Issues, Possible Solutions and A Way Forward in the European Context. In Luca Belli (editor), *Community Connectivity: Building the Internet from Scratch*, Annual Report of the UN IGF Dynamic Coalition on Community Connectivity, FGV Direito Rio Edition

- 5) Primavera De Filippi and Félix Tréguer. Wireless Community Networks: Towards a Public Policy for the Network Commons? In Luca Belli and Primavera De Filippi, editors, *Net Neutrality Compendium: Human Rights, Free Competition and the Future of the Internet*, pages 261–275. Springer, 2016. URL <https://hal.archives-ouvertes.fr/hal-01382008/document>

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- 7) Federica Giovanella. Alternative rules for alternative networks? tort law meets wireless community networks. *First Monday*, 21(12), dec 2016. URL [10.5210/fm.v21i12.7119](https://doi.org/10.5210/fm.v21i12.7119)
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- 10) Felix Tréguer, Panayotis Antoniadis, and Johan Söderberg. Alt. vs. ctrl.: Editorial notes for the jopp issue on alternative internets. *Journal of Peer Production*, (9), 2016. URL <http://peerproduction.net/issues/issue-9-alternative-internets/editorial-notes/> (non peer-reviewed)
- 11) Stefano Crabu, Federica Giovanella, Leonardo Maccari, and Paolo Magaouda. Hacktivism, infrastructures and legal frameworks in community networks: The italian case of ninux.org. *Journal of Peer Production*, (9), 2016. URL <http://peerproduction.net/issues/issue-9-alternative-internets/peer-reviewed-papers/ninux-org/>
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- 13) Panagiota Micholia, Merkouris Karaliopoulos, Iordanis Koutsopoulos, Luca Maria Aiello, Gianmarco De Francisci Morales, and Daniele Quercia. Incentivizing social media users for mobile crowdsourcing. *International Journal of Human-Computer Studies*, 2016. ISSN 1071-5819. doi: 10.1016/j.ijhcs.2016.09.007. URL <http://www.sciencedirect.com/science/article/pii/S1071581916301203>

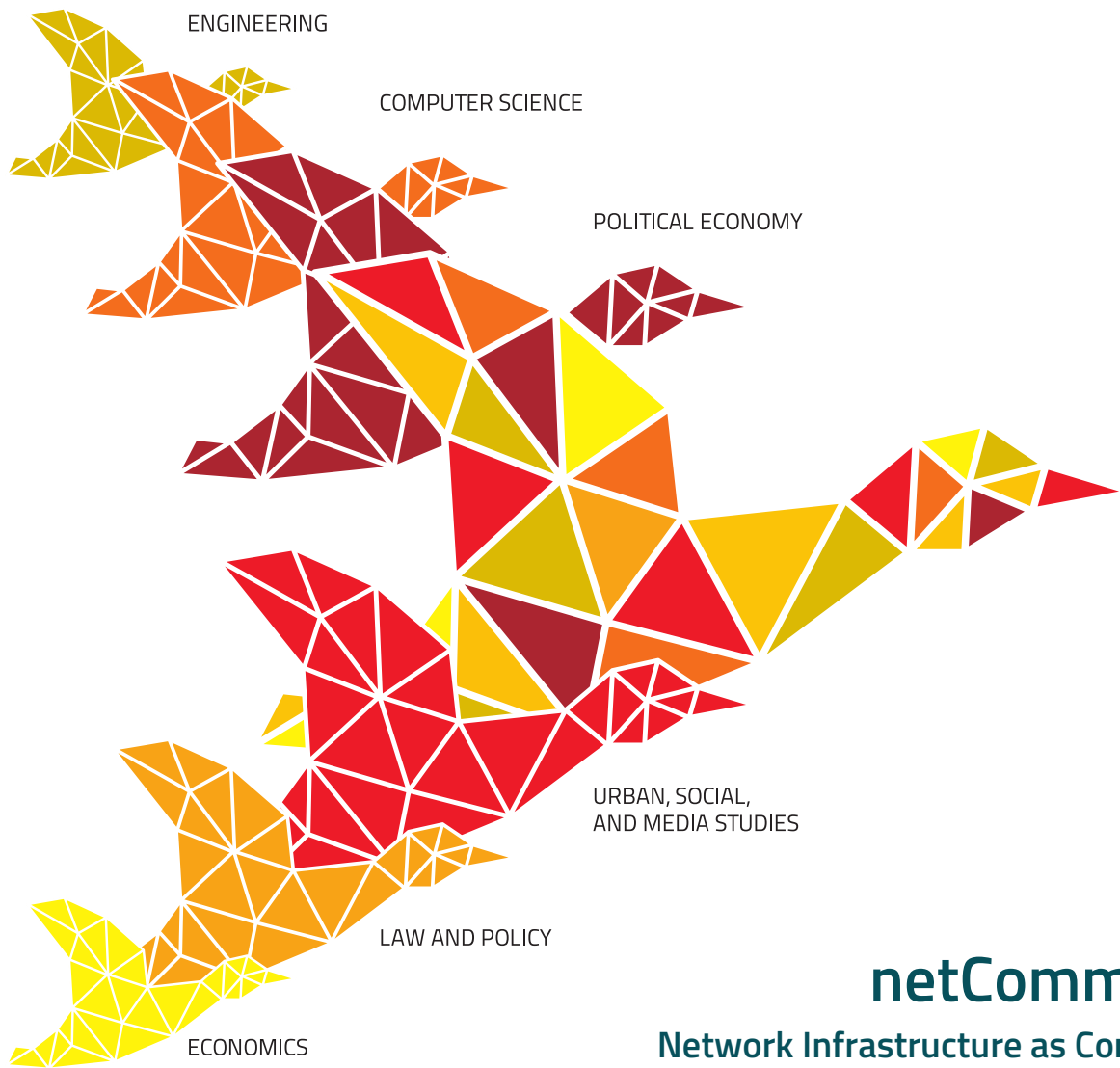
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- 21) Félix Tréguer. Supporting Community Networks Through Law and Policy – A White Paper, June 2016. URL <http://netcommons.eu/?q=content/supporting-community-networks-through-law-and-policy>

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