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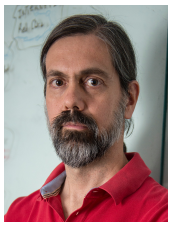

José Ignacio Alvarez-Hamelin

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Electronic Engineer, Professor of the Universidad de Buenos Aires, and Researcher from CONICET (the National Scientific and Technical Research Council of Argentina), J. Ignacio Alvarez-Hamelin leads the Complex Networks and Data Communication Group at Engineer School of the Universidad de Buenos Aires. Since 2018, he is http://www.fi.uba.ar/es/node/30Undersecretary of Research and Doctorate Panning at the Facultad de IngenierÃa, Universidad de Buenos Aires.

His research interests include Complex Systems analysis, Internet, Routing Protocols, and Networks. He is Undersecretary of Planning of Research and Doctorate at the Facultad de IngenierÃa, Universidad de Buenos Aires (Engineer School of the University of Buenos Aires). He is a member of the Internet Society and the ITU, and he participates actively in the IETF (Internet Engineering Task Force) meetings. Among his research production (peer-review), we count seventeen articles, more than twenty International Conferences and Workshops. All his research is based on national and international grants. He has directed two doctoral theses, three master thesis, and more than thirty undergraduate theses. He has an H-index of ten according to SCOPUS (https://www.scopus.com/authid/detail.uri?authorId=25721726600).

The technological production is represented by an Argentinian Patent on a secure access network (also presented to PCT and the European Patent Office), several open-source software, and some contracts with Internet Society and some Argentinian governmental offices.

He also was Tech Fellow to IETF 101, London (by ISOC). https://www.internetsociety.org/fellowship/fellowship-to-ietf/fellows/101/.

Among its publications and developed tools we found:

- Jose Alvarez-Hamelin, Alfred Morton, Joachim Fabini, Carlos Pignataro, and Ruediger Geib. Advanced Unidirectional Route Assessment (AURA). Internet-Draft draft-ietf-ippm-route-07, IETF Secretariat, December 2019. http://www.ietf.org/internet-drafts/draft-ietf-ippm-route-07.txt.
- Esteban Carisimo, Carlos Selmo, J. Ignacio Alvarez-Hamelin, and Amogh Dhamdhere. Studying the evolution of content providers in ipv4 and ipv6 internet cores. Computer Communications, 145:54 – 65, 2019.
- TiX measurements: open source tool to measure the quality of Internet home access https://github.com/TiX-measurements.
- Esteban Carisimo, Sebastián Grynberg, and José Ignacio Alvarez-Hamelin. Influence of traffic in stochastic behavior of latency. In 7th PhD School on Traffic Monitoring and Analysis (TMA), Ireland, Dublin, June 2017. (http://tma.ifip.org/wordpress/wp-content/uploads/2016/08/EstebanCarisimo_poster.pdf)
- LaNet-vi: an open source Large Network visualisation software (http://lanet-vi.fi.uba.ar), and the online application "===>I'm here! (*)"(http://lanet-vi.fi.uba.ar/i_am_here/)

- J. Ignacio Alvarez-Hamelin, Luca Dall'Asta, Alain Barrat, and Alessandro Vespignani. K-core decomposition of Internet graphs: hierarchies, self-similarity and measurement biases. Networks and Heterogeneous Media, 3(2):371-293, 2008.
- Pol Colomer de Simon, M.Angeles Serrano, Mariano G. Beiró, J.Ignacio Alvarez-Hamelin, and Marian Boguñá. Deciphering the global organization of clustering in real complex networks. Sci. Rep., 3:2517, Aug 2013.
- J. I. Alvarez-Hamelin and Nicolas Schabanel. An Internet Graph Model Based on Trade-Off Optimization. European Physical Journal B, special issue on "Applications of networks", 38(2):231-237, march II 2004.
- J. Ignacio Alvarez-Hamelin, A.C. Viana, and M.D. de Amorim. DHT-based Functionalities Using Hypercubes. In K. Al Agha, editor, International Federation for Information Processing (IFIP), Ad-Hoc Networking, volume 212, pages 157-176, Boston, 2006. Springer.
- AA Ortega, VA Bettachini, JI Alvarez-Hamelin, and DF Grosz. Hamming-weight minimisation coding for cdma optical access networks with enhanced security. In Future Generation Communication Technology (FGCT), 2012 International Conference on, pages 185–189. IEEE, 2012.

Some updated research information can be found:

`https://scholar.google.com/citations?user=Gpvqq48AAAAJ`

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`http://cnet.fi.uba.ar/en/`

Buenos Aires, Argentina, April 23th 2020

Appendix: Detailed publications and tools

Patents

[**AHBO15**] J.I. Alvarez-Hamelin, V.A. Bettachini, A.A. Ortega, "Dispositivo y método para transmisión segura de datos sobre canales Z mediante CDMA", patente otrogada en la RepÃºblica Argentina, AR084155 B1, solicitud P110104539, por 20 años (hasta el 5 de diciembre del 2031), 27 de Febrero del 2015.

[**AHBO14**] J.I. Alvarez-Hamelin, V.A. Bettachini, A.A. Ortega, "Device and Method for the Secure Transmission of Data over Z-Channels Using CDMA", Patente Europea P11104EPPC, solicitada el 4 de Julio del 2014.

[**AHBO12**] J.I. Alvarez-Hamelin, V.A. Bettachini, A.A. Ortega, "Dispositivo y método para transmisión segura de datos sobre canales Z mediante CDMA", PCT Internacional, N/Ref. PCT/IB2012/057003, 5 de diciembre, 2012.

[**AHBO11**] J.I. Alvarez-Hamelin, V.A. Bettachini, A.A. Ortega, "Dispositivo y método para transmisión segura de datos sobre canales Z mediante CDMA", patente solicitada en la RepÃºblica Argentina, N/Ref. INPI Exp. 20110104539, 5 de diciembre, 2011.

Books' chapters

[**OAHF10**] José I. Orlicki, J. Ignacio Alvarez-Hamelin and Pablo I. Fierens, "Scalable Faceted Ranking in Tagging Systems", Web Information Systems and Technologies – 5th International Conference, WEBIST 2009, Revised Selected Papers, LNBIP, Volume 45, Springer Berlin Heidelberg (2010), J. Cordeiro and J. Filipe Eds. (ISBN 978-3-642-12435-8).

[**BDAHV07**] Alain Barrat, Luca Dall'Asta and J. Ignacio Alvarez-Hamelin and Alessandro Vespignani, "The large scale structure of the Internet", Libro: *Large scale structure and dynamics of complex networks: From Information Technology to Finanace and Natural Science*, World Scientific (2007), G. Caldarelli and A. Vespignani Eds. (ISBN 978-981-270-664-5).

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[**CDDPAH20**] Esteban Carisimo, Julián MartÃn Del Fiore, Diego Dujovne, Cristel Pelsser, J. Ignacio Alvarez-Hamelin. A first look at the Latin American IXPs. SIGCOMM Comput. Commun. Rev., 50(1):18–24, March 2020.

[**CSAHD19**] Esteban Carisimo, Carlos Selmo, J. Ignacio Alvarez-Hamelin, and Amogh Dhamdhere. Studying the Evolution of Content Providers in IPv4 and IPv6 internet cores. Computer Communications, 145:54 – 65, 2019.

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[**BGAH15**] Mariano G Beiró, Sebastián P Grynberg, and J Ignacio Alvarez-Hamelin. Router-level community structure of the Internet Autonomous Systems. EPJ Data Science, 04(12):1-22, 2015.

[**OBFAH14**] Alfredo A. Ortega, Victor A. Bettachini, Pablo I.Fierens, and J. Ignacio Alvarez-Hamelin. Encrypted CDMA Audio Network. Journal of Information Security.: Scientific Research, vol.5 . p73 - 82., 2014.

[**PHCBAH14**] Roberto P.J. Perazzo, Laura Hernández, Horacio Ceva, Enrique Burgos, and José Ignacio Alvarez-Hamelin. Study of the influence of the phylogenetic distance on the interaction network of mutualistic ecosystems. Physica A: Statistical Mechanics and its Applications, 394(0):124 - 135, 2014.

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[**BBGAH13**] Mariano G. Beiro, and Jorge R. Busch, Sebastian Grynberg, José Ignacio Alvarez-Hamelin "Obtaining communities with a fitness growth process". Physica A, 392(9):2278-2293, 2013.

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[**AHDBV08**] José Ignacio Alvarez-Hamelin, Luca Dall'Asta, Alain Barrat and Alessandro Vespignani. "K-core decomposition of Internet graphs: hierarchies, self-similarity and measurement biases". Networks and Heterogeneous Media, (3):2, 371-393, 2008.

[**AHP07**] J. Ignacio Alvarez-Hamelin and A. Puglisi, "The dynamical collision network in granular gases", Physical Review E(75):051302, 2007.

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[**MAHB19**] Tomás Mussi Reyero, José Ignacio Alvarez-Hamelin, and Mariano Gastón Beiró. Topic-based study of a Twitter political network. Technical report, NetSciX2019, Jan 2019.

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[**DRARDAH16**] Gabriel Davila Revelo, Mauricio Anderson Ricci, Benoit Donnet, and José Ignacio Alvarez-Hamelin. Unveiling the mpls structure on internet topology. In Traffic Monitoring and Analysis Workshop (TMA), Belgium, Louvain La Neuve, April 2016.

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[**SBBWZAH15**] Carlos Sarraute, Jorge Brea, Javier Burroni, Klaus Wehmuth, Artur Ziviani and J. Ignacio Alvarez-Hamelin. Social Events in a Time-Varying Mobile Phone Graph. NetMob 2015, 7-10 April, MIT MediaLab, Cambridge MA, USA., Book of Abstracs :: Oral, p 123-125, 2015.

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[**OFAH09**] José I. Orlicki, Pablo I. Fierens, and J. Ignacio Alvarez-Hamelin, "Faceted Ranking In Collaborative Tagging Systems: Efficient Algorithms for Ranking Users based on a Set of Tags", in *WEBIST 2009: Proceedings of the 5th International Conference on Web Information Systems and Technologies (Lisboa, Portugal) (INSTICC Press, ed.)*, INSTICC Press, 2009, pp. 626–633.

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[**AHMFPG18**] Jose Alvarez-Hamelin, Alfred Morton, Joachim Fabini, Carlos Pignataro, and Ruediger Geib. Advanced unidirectional route assessment (aura). Internet-Draft draft-ietf-ippm-route-07, IETF Secretariat, December 2019.

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[**CGAH15**] Esteban Carisimo, Hernan Galperin, and José Ignacio Alvarez-Hamelin. A new intrinsic way to measure IXP performance: an experience in Bolivia. arXiv e-print, abs/1505.00837, May 2015.

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[**BBAH10c**] Jorge Rodolfo Busch, Beiró Mariano Gastón, and José Ignacio Alvarez-Hamelin. "On weakly optimal partitions in modular networks." arXiv e-print, abs/1008.3443, Aug 2010.

[**OBAHG09**] Alfredo A. Ortega, Victor A. Bettachini, José Ignacio Alvarez-Hamelin, and Diego F. Grosz. "A CDMA Secure Optical Access Network." arXiv e-print, abs/0912.5324, Dec 2009.

Workshops' organization

- LANCOMM, Workshop on Fostering Latin-American Research in Data Communication Networks (LANCOMM 2019), May 7th, 2019, Gramado, Brazil. `http://sbrc2019.sbc.org.br/en/lancomm-student-workshop`
- ACM SIGCOMM Workshop on Fostering Latin-American Research in Data Communication, August 22nd, 2016, Florainópolis, Brazil. `http://conferences.sigcomm.org/sigcomm/2016/lancomm.php`.
- Workshop on Dynamic Networks, November 5-7th, 2013, INTECIN – Facultad de IngenierÃa (U.B.A.) – ITBA, Buenos Aires, Argentina.
- Computer Networks Special issue on "Complex Dynamic Networks: Tools and Methods" (Guest Editors: J.I. Alvarez-Hamelin, Eric Fleury, Alessandro Vespignani and Artur Ziviani), Volume 56, Issue 3, Pages 967-1130 (23 February 2012). .
- Workshop on Dynamic Networks, November 22-23th, 2012, INTECIN – Facultad de IngenierÃa (U.B.A.), Buenos Aires, Argentina. (with Eric Fleury and Artur Ziviani) `http://cnet.fi.uba.ar/wdn/`
- Latin-American Workshop on Dynamic Networks, November 4th, 2010, INTECIN – Facultad de IngenierÃa (U.B.A.), Buenos Aires, Argentina. (with Eric Fleury and Artur Ziviani) `http://cnet.fi.uba.ar/lawdn/`
- International Workshop on Dynamic Networks June 4th, 2010, Avignon, France, (with Eric Fleury and Artur Ziviani) `http://perso.ens-lyon.fr/eric.fleury/WDN2010.html`
- Workshop: Dynamical Complex Systems INTECIN – Facultad de IngenierÃa (U.B.A.) December 17th, 2009. `http://cnet.fi.uba.ar/wdcs/`

Developed Open-Source Tools

- 06/2005———**LaNet-vi**: is an open source Large Network visualization software based on the k-core decomposition (http://lanet-vi.fi.uba.ar)
- 08/2007———**Data Communications Scilab Toolbox**: educational tool to analyze different digital communications systems

- 04/2010——**SnailVis:** Graph partitions Visualization, useful for communities `http://cnet.fi.uba.ar/mariano.beiro/snailvis.tar.gz`.
- 02/2012——**ComplexNets++**: This toolbox provides different tools to analyze complex networks, i.e., networks issues from complex systems or any graph in general. `https://github.com/CoNexDat/complexnets`.
- 08/2011——**I am here:** Page wet to display the Internet-ASes map visualization using LaNet-vi, highlighting from where the actual user is connected (Word, Region and Country). `http://lanet-vi.fi.uba.ar/i_am_here/`
- 03/2012——**CommuGP:** Community detection, based un growing [BBGAH13], BSD 3-Clause License. `https://github.com/ihameli/commugp`
- 05/2016——**TiX-measurements**: open source tool to measure the quality of Internet home access `https://github.com/TiX-measurements`.
- 01/2018——**ANTop partition and mixing (Debian distribution):** This version of ANTop ad-hoc routing protocol is done for Debian distribution of Linux. `https://github.com/CoNexDat/ANTop`.
- 02/2018——**Content Providers k-core Evolution:** Content Providers in the AS ecosystem after the widespread growth of private CDNs (see CSAHD19). `https://github.com/CoNexDat/CPcoreEvo` and `https://cnet.fi.uba.ar/TMA2018/`.
- 06/2018——**SIC: Synchronizing Internet Clocks:** is the implementation of the Internet-Draft [AHSOG18].`https://github.com/CoNexDat/SIC`.
- 07/2019——**Argentine Elections 2019 in Twitter:** `http://elecciones2019.fi.uba.ar`.