

Sándor Laki - Curriculum Vitae

PERSONAL DATA	<i>Name:</i> LAKI, Sándor <i>Nationality:</i> Hungarian <i>Date of birth:</i> April 15, 1983	
CONTACT	Dept. of Information Systems Eötvös Loránd University (ELTE) Budapest, Hungary H-1117	<i>Phone:</i> +3613722869 / 8477 <i>Cell:</i> +36703742646 <i>E-mail:</i> lakis@inf.elte.hu <i>WWW:</i> http://lakis.web.elte.hu
RESEARCH INTERESTS	Data analytics and modelling, computer networks, network measurements, cloud technologies, data transportation, IP geolocation, peer-to-peer networks, software defined networking.	
EDUCATION	Faculty of Informatics, Eötvös Loránd University Ph.D. School of Computer Science , Budapest, Hungary	2015
	Ph.D. thesis: Analysis of complex communication networks: from measurement control to optimization doi: 10.15476/ELTE.2015.061 Date of Ph.D. defense: 17/06/2015	
	Faculty of Informatics, Eötvös Loránd University Budapest, Hungary	2002-2007
	M.Sc. in Computer Science, 2007	
RELEVANT EXPERIENCE	Computational Sciences Research Group, Wigner Research Centre for Physics, Hungarian Academy of Sciences, Budapest, Hungary Researcher	April 2014-
	Dept. of Information Systems, Eötvös Loránd University , Budapest, Hungary Research Assistant	Sept. 2010-
AWARDS	Young Researcher Award , Faculty of Informatics, Eötvös Loránd University	2011
TEACHING EXPERIENCE	Eötvös Loránd University Computer Networks - Lecture and Practice [English] Computer Networks - Practice [Hungarian] Programming languages I. (ADA95) [Hungarian]	2012- 2007- 2004-2008
	Pázmány Péter Catholic University Introduction to programming II. (C++) [Hungarian] Programming languages and methods (Java) [Hungarian] Introduction to programming I. (C++) [Hungarian]	2007 2006 2006-2007

RESEARCH

NATIONAL PROJECTS

NKFP 02/032/2004, NAP 2005/KCKHA005, TAMOP 4.2.1/B-09/1/KMR-2010-0003, EITKIC-12-1-2012-0001, TÁMOP-4.2.2.C-11/1/KONV-2012-0001 (Hungarian Future Internet Project), joint projects with Ericsson Research Hungary.

INTERNATIONAL PROJECTS

EU FP7 OneLab2, EU FP7 NOVI (2010-2013), EU FP7 OpenLab (2011-2014), EIT ICTLabs Smart Ubiquitous Content (2013), EIT ICTLabs FITTING (2013), EU FP7 XIFI (FIWARE Lab cloud infrastructure; 2014-2015), EU H2020 COMPARE (Big data platform for genetic data; 2015-2019)

SERVICES AND
OTHER ACTIVITIES

CONFERENCE

IEEE CloudCom 2015

Reviewer

2015

Big Data Workshop, 7th CyberC Conference '15

Reviewer

2015

27th International Teletraffic Congress (ITC) '15

Reviewer

2015

IEEE Symposium on Computer Applications and Industrial Electronics (ISCAIE) 2014

Reviewer

2013

IEEE Symposium on Computers and Informatics (ISCI) 2013

Reviewer

2013

IEEE Symposium on Wireless Technology and Applications (ISWTA) 2012

Reviewer

2012

Military Communications Conference (MILCOM) 2012

Reviewer

2012

JOURNAL

IEEE Communication Letters

Reviewer

2014

IEEE Systems Journal

Reviewer

2014

IEEE Journal on Selected Areas of Communication

Reviewer

2011

LANGUAGE

Hungarian: Fluent

SKILLS

German: Basic**English:** Fluent

PUBLICATIONS

BOOK CHAPTER

- J. Stéger, S. Laki, P. Mátray: "A Monitoring Framework for Federated Virtualized Infrastructures", In Book entitled "Measurement Methodology and Tools" (Editors: Lluís-Fabrega, Pere Vila, Davide Careglio, Dimitri Papadimitriou), Springer Lecture Notes in Computer Science (LNCS), vol. 7586, Aug. 2013, doi: 10.1007/978-3-642-41296-7_11

JOURNAL PAPERS

- V. Maglaris, C. Papagianni, G. Androulidakis, M. Grammatikou, P. Grosso, J. van der Ham, C. de Laat, B. Pietrzak, B. Belter, J. Steger, S. Laki, M. Campanella, and S. Sallent: "Toward a Holistic Federated Future Internet Experimentation Environment: The Experience of NOVI Research and Experimentation", IEEE Communications Magazine, vol. 53, issue 7, July 2015, 9 pages, ISSN:0163-6804, IMPACT FACTOR: 4.46, doi: 10.1109/MCOM.2015.7158277
- J. van der Ham, J. Steger, S. Laki, Y. Kryftis, V. Maglaris, C. de Laat: "The NOVI Information Models", Future Generation Computer Systems, vol. 42, January 2015, pages 64-73, Elsevier, ISSN:0167-739X, IMPACT FACTOR: 2.639, doi: 10.1016/j.future.2013.12.017

- B. Hullar, S. Laki, A. György: “Efficient Methods for Early Protocol Identification”, IEEE Journal on Selected Areas in Communications (JSAC) - 2014 Special Issue on Deep Packet Inspection: Algorithms, Hardware, and Applications., vol. 32, issue 10, October 2014, 12 pages, ISSN:0733-8716, IMPACT FACTOR: 4.138, doi: 10.1109/JSAC.2014.2358832
- P. Mátray, P. HÁga, S. Laki, G. Vattay, I. Csabai: “On the Spatial Properties of Internet Routes”, Computer Networks, Volume 56, Issue 9, 14 June 2012, Pages 2237-2248, ISSN 1389-1286, IMPACT FACTOR: 1.176, doi:10.1016/j.comnet.2012.03.005.
- Zs. Kallus, P. HÁga, S. Laki, P. Mátray, G. Vattay: “Complex Geography of the Internet Network”, Acta Physica Polonica B, Volume 42, No. 5, May 2011, Pages 1057-1069, ISSN 0587-4254, IMPACT FACTOR: 0.664, doi:10.5506/APhysPolB.42.1057
- S. Laki, P. Mátray, P. HÁga, I. Csabai, G. Vattay: “A Model Based Approach for Improving Router Geolocation”, Computer Networks, Volume 54, Issue 9, 17 June 2010, Pages 1490-1501, ISSN 1389-1286, IMPACT FACTOR: 1.201, doi: 10.1016/j.comnet.2009.12.004.
- I. Csabai, A. Fekete, P. HÁga, B. Hullár, G. Kurucz, S. Laki, P. Mátray, J. Stéger, G. Vattay: “ETOMIC advanced network monitoring system for future Internet experimentation”, Infocommunications Journal, Invited paper, Volume LXV, Issue I, Pages 25-31

CONFERENCE PAPERS

- J. Stéger, T. Sebök, Zs. Kallus, S. Laki, P. Mátray, J. Szüle, L. Dobos, I. Csabai, G. Vattay: “Network Measurement Virtual Observatory: An Integrated Database Environment for Internet Research and Experimentation”, In Proceedings of TRIDENTCOM 2014 Conference, May 5-7, 2014, Guangzhou, China
- A. Puszta, J. Szüle, S. Laki: “Near Real-Time Thematic Clustering of Web Documents and other Internet contents”, In Proceedings of the 4th IEEE Intl' Conference on Cognitive Infocommunications, December 02-05, 2013, Budapest, Hungary
- T. Matuszka, Z. Vincellér, S. Laki: “On a Keyword-Lifecycle Model for Real-time Event Detection in Social Network Data”, In Proceedings of the 4th IEEE Intl' Conference on Cognitive Infocommunications, December 02-05, 2013, Budapest, Hungary
- R. Szabo, K. Farkas, M. Ispany, A.A. Benczur, N. Batfai, P. Jeszenszky, S. Laki, A. Vagner, L. Kollar, Cs. Sidlo, R. Besenczi, M. Smajda, G. Kover, T. Szincsak, T. Kadek, M. Kosa, A. Adamko, I. Lendak, B. Wiandt, T. Tomas, A. Zs. Nagy, G. Feher: “Framework for smart city applications based on participatory sensing”, In Proceedings of the 4th IEEE Intl' Conference on Cognitive Infocommunications, December 02-05, 2013, Budapest, Hungary
- S. Laki, T. Lukovszki: “On a Balanced Neighbor Selection Strategy for Tracker-Based Peer-to-Peer Networks”, In Proceedings of the 13th IEEE International Conference on Peer-to-Peer Computing (IEEE P2P'13), September 9-11, 2013, Trento, Italy (Acceptance rate: 30.8%)
- S. Laki, T. Lukovszki: “Balanced Neighbor Selection for BitTorrent-like Networks”, In Proceedings of the 21st European Symposium on Algorithms (ESA 2013), September 02-04, 2013, Sophia Antipolis, France, Springer LNCS vol. 8125 (Acceptance rate: 21.6%)
- B. Hullár, S. Laki, A. György: “Early Identification of Peer-To-Peer Traffic”, In Proceedings of IEEE ICC 2011, June 5-9, 2011, Kyoto, Japan
- B. Hullár, S. Laki, J. Stéger, I. Csabai, G. Vattay: “SONoMA: A Service Oriented Network Measurement Architecture”, In Proceedings of TridentCom 2011, April 17-19, 2011, Shanghai, China
- S. Laki, P. Mátray, P. HÁga, T. Sebök, G. Vattay, I. Csabai: “Spotter: A Model Based Active Geolocation Service”, In Proceedings of IEEE INFOCOM Conference 2011, April 10-15, 2011, Shanghai, China (Acceptance rate: 15.9%)
- P. Mátray, P. HÁga, S. Laki, G. Vattay, I. Csabai: “On the Network Geography of the Internet”, In Proceedings of IEEE INFOCOM Mini-Conf. 2011, April 10-15, 2011, Shanghai, China (Acceptance rate: 23.4%)

- I. Csabai, A. Fekete, P. Haga, B. Hullar, G. Kurucz, S. Laki, P. Matray, J. Steger, G. Vattay, F. Espina, S. Garcia-Jimenez, M. Izal, E. Magana, D. Morato, J. Aracil, F. Gomez, I. Gonzalez, S. Lopez-Buedo, V. Moreno, J. Ramos: “ETOMIC Advanced Network Monitoring System for Future Internet Experimentation”, In Proceedings of TridentCom 2010 Conference, May 18-20, 2010, Berlin, Germany
- S. Laki, P. Matray, P. Haga, I. Csabai, G. Vattay: “A Detailed Path-latency Model for Router Geolocation”, In Proceedings of TridentCom 2009 Conference, Apr 6-8 2009, Washington D.C., USA, doi: 10.1109/TRIDENTCOM.2009.4976258

PRESENTATIONS

- Balanced Neighbor Selection for BitTorrent-Like Networks, 21th European Symposium on Algorithms (ESA 2013), September 2-4, 2013, Sophia Antipolis, France
- Analysing the spatial structure of the Internet topology, ISMA 2013 AIMS-5 - Workshop on Active Internet Measurements, February 6-8, 2013, San Diego, USA, CA
- Early Identification of Peer-to-Peer Traffic, IEEE ICC 2011 Conference, June 5-9, 2011, Kyoto, Japan
- Early Identification of Peer-to-Peer Traffic, Ericsson HSN Workshop, May 30, 2011, Budapest, Hungary
- Spotter: A Model Based Active Geolocation Service, IEEE INFOCOM 2011 Conference, April 10-15, 2011, Shanghai, China
- ETOMIC Advanced Network Monitoring System for Future Internet Experimentation, Tridentcom 2010 Conference - Technical session, May 18-20, 2010, Berlin, Germany
- Measurement Based Geolocation in the ETOMIC Infrastructure, High Speed Networking Workshop 2009, May 28-29, 2009, Balatonkenese, Hungary
- A Detailed Path-latency Model for Router Geolocation, Tridentcom 2009 Conference - ONIT 2009, April 6-8, 2009, Washington D.C., USA