

Ten-years track record

PUBLICATIONS SUMMARY (career-wise)

- 2 book chapters, 44 journal articles, and 131 peer-reviewed conference publications
- 20 KDD, 15 ICDM, 14 ECML/PKDD, 13 CIKM, 10 DMKD, 8 WWW, 10 WSDM, 5 PVLDB, 5 ICDE, 6 TKDD, 4 SIGIR, 4 TKDE, 3 SIGMOD, 1 ICML, 1 NIPS
- 151 coauthors

SCIENTIFIC IMPACT¹

	All	Since 2013
Number of citations:	14 851	8 820
<i>h</i> -index:	52	43
<i>i</i> 10-index:	111	95

TEN SELECTED PUBLICATIONS IN THE LAST EIGHT YEARS²

- K. Garimella, G. De Francisci Morales, A. Gionis, and M. Mathioudakis, “Quantifying controversy on social media”, ACM Transactions on Social Computing (TSC) 2018
(Role: Scientific lead and student/postdoc supervision, Citations: 92, [S])
- K. Garimella, G. De Francisci Morales, A. Gionis, and M. Mathioudakis, “Reducing controversy by connecting opposing views”, WSDM 2017
(Role: Scientific lead and student/postdoc supervision, Citations: 39, [S])
- K. Garimella, A. Gionis, N. Parotsidis, and N. Tatti, “Balancing information exposure in social networks”, NIPS 2017
(Role: Scientific lead and student/postdoc supervision, Citations: 5, [A])
- G. De Francisci Morales, A. Gionis, “Streaming similarity self-join”, PVLDB 2016
(Role: Scientific lead and postdoc supervision, Citations: 14, [A])
- E. Galbrun, A. Gionis, N. Tatti, “Overlapping community detection in labeled graphs”, DMKD 2014
(Role: Scientific lead and student/postdoc supervision, Citations: 32, [A])
- P. Rozenshtein, A. Anagnostopoulos, A. Gionis, N. Tatti, “Event detection in activity networks”, KDD 2014
(Role: Scientific lead and student/postdoc supervision, Citations: 59, [S])
- C. Tsourakakis, F. Bonchi, A. Gionis, F. Gullo, M. Tsiarli, “Denser than the densest subgraph: Extracting optimal quasi-cliques with quality guarantees”, KDD 2013
(Role: Scientific lead and student supervision, Citations: 135, [S])
- A. Anagnostopoulos, L. Becchetti, C. Castillo, A. Gionis, S. Leonardi, “Online team formation in social networks”, WWW 2012
(Role: Equal contribution among peers, Citations: 201, [A])
- G. De Francisci Morales, A. Gionis, M. Sozio, “Social content matching in MapReduce”, PVLDB 2011
(Role: Scientific lead and student supervision, Citations: 53, [S])
- M. Mathioudakis, C. Castillo, F. Bonchi, A. Gionis, A. Ukkonen, “Sparsification of influence networks”, KDD 2011
(Role: Scientific lead and student supervision, Citations: 140, [S])

¹Data from Google scholar in August 2018

²Author ordering schemes:

[A] Alphabetically

[S] Student first, and the rest of the authors alphabetically

INVITED PRESENTATIONS AND KEYNOTE TALKS

- ECML PKDD Conference, Dublin, Ireland, 2018
- Complex Networks conference, Cambridge, UK, 2018
- WWW workshop on online social networks and media: network properties and dynamics, Lyon, 2018
- NIPS workshop on prioritising online content, Long Beach, CA, USA, 2017
- University of Rome “Tor Vergata”, Rome, 2016
- Ludwig Maximilians University of Munich, Germany, 2016
- Annual Symposium on String Processing and Information Retrieval (SPIRE), London, 2015
- Workshop on Large-Scale Distributed Systems for Information Retrieval (LSDS-IR), Glasgow, 2011
- Benelearn Conference, Hague, the Netherlands, 2011
- Technical University of Eindhoven, the Netherlands, 2010
- Workshop on Mining and Learning with Graphs (MLG), Washington DC, 2010

TUTORIALS IN CONFERENCES AND PhD SCHOOLS

- “Polarization on social media”, ICWSM 2017, WWW 2018, and KDD 2018
- “Algorithmic methods for mining large graphs”, Bertinoro International Spring School (BISS) 2016, Estonian Summer School on Computer and System Science 2016, KDD 2013, PKDD 2013, and Summer School on Massive Data Mining (MaDaMS) 2012
- “Dense-subgraph discovery”, KDD 2015 and ECML PKDD 2015
- “Information dissemination in social networks”, SPIRE 2012
- “An introduction to web mining”, ECML PKDD 2008, WWW 2008, ESSIR 2009, IJCAI 2011

GRANTED PATENTS

- Network graph evolution rule generation, US Patent 9489448
- Query log mining for detecting spam hosts, US Patent 8996622
- Social networking feed delivery system and method, US 8671141
- System and method of matching content items and consumers, US 8660975
- Taxonomy-driven lumping for sequence mining, US 8346686
- System and methodology for a multi-site search engine, US 8095545
- Method and system for generating a hyperlink-click graph, US 7945565
- System and method for caching posting lists, US 7890488
- Automatically ranking answers to database queries, US 7251648
- Document descriptor extraction method, US 7080314

SUPERVISING EXPERIENCE

- Since joining Aalto in 2013, I have been leading the Data Mining group, currently consisting of 5 doctoral students and 2 postdoctoral researchers.
Members of the group have been actively publishing in top-level journals and conferences.
Graduates of the group have been employed in Google, Microsoft, Bell Labs, EPFL (postdoc), MIT (postdoc), and University of Helsinki (assistant professor).
All doctoral students have been conducting internship in places such as Facebook, Google, Amazon, LinkedIn, Nokia, and MPI.
- While in Yahoo! Research, I supervised more than 10 PhD interns. The typical internship duration was 3 months, and almost all internships led to at least one publication at a top-tier venue.

INDUSTRIAL EXPERIENCE

During my appointment in Yahoo! Research, I have been the manager of the Web Mining group. My position involved scientific lead, tech transfer, managing the group activities, and administrative duties.