





Université de Namur
Rempart de la Vierge 8
B-5000 Namur
Belgique

jerome.kunegis@unamur.be
twitter.com/kunegis
linkedin.com/in/kunegis
networkscience.wordpress.com

Tel.: +32 (0)81 72 4943

Education

- Dr. rer. nat.**, University of Koblenz–Landau 2011   
Thesis: *On the Spectral Evolution of Large Networks*
- Dipl.-Inform.**, Technical University of Berlin 2006 
Thesis: *Using Integer Linear Programming for Search Results Optimization*
- Baccalauréat**, Lycée Français de Berlin 1999
Série scientifique
- Abitur**, Lycée Français de Berlin 1999
Leistungskurse: Mathematik, Physik
- Diplôme national du brevet**, Lycée Français de Berlin 1996
Série collège

Positions

- Postdoctoral Researcher** 2017–present
Namur Center for Complex Systems (naXys), University of Namur
- Postdoctoral Researcher** 2011–2016
Institute for Web Science and Technologies, University of Koblenz–Landau
- Visiting Postdoctoral Researcher** 2013
Networks and Operating Systems Group, University of Cambridge
- Research Assistant** 2010–2011
Institute for Web Science and Technologies, University of Koblenz–Landau
- Research Assistant** 2006–2010
DAI Laboratory, Technical University of Berlin
- Student Research Assistant** 2002–2006
DAI Laboratory, Technical University of Berlin

Projects

- **IDEES** (ERDF/FEDER – Wallonia/Wallonie) 2017–present
L'Internet de Demain pour développer les Entreprises, l'Économie et la Société
- **KONECT** 2011–present
Koblenz Network Collection
- **REVEAL** (EU FP7-ICT) 2014–2016
Revealing Hidden Concepts in Social Media
- **SIP** (DFG WGI) 2014–2016
Social Information Processing – Cloud Infrastructure at the Univ. of Koblenz–Landau
- **SocialSensor** (EU FP7-ICT) 2013–2014
Sensing User Generated Input for Improved Media Discovery and Experience
- **KONECT Cloud** 2012–2013
Large Scale Network Mining in the Cloud

- [ROBUST](#) (EU FP7-ICT) 2010–2013
Risk and Opportunity Management of Huge-Scale Business Community Cooperation
- [WeKnowIt](#) (EU FP7-ICT) 2010
Emerging, Collective Intelligence for Personal, Organisational and Social Use
- [MULTIPLA](#) (DFG) 2010
Multi-Ontology Learning: Crossing the Boundaries of Domains and Languages
- [UCPM](#) 2010
User Centric Profile Management
- [SERUM](#) 2010
Semantic Recommenders Based on Large Unstructured Datasets
- [Connected Living](#) (Innovationszentrum “Vernetztes Leben”) 2009–2010
- [SmartSenior](#) 2009–2010
Subproject Service Infrastructure and Usability Engineering – Intelligent Services for Elderly People
- [WebTV](#) 2009–2010
Semantic TV Recommendations
- [PIA](#) 2006–2010
Personal Information Agent



Lecturing






- Network Theory and Dynamic Systems, Web Science (MSc), Univ. of Koblenz–Landau, Summer Term 2014, 2015, 2016.
- Introduction to Database Systems (Grundlagen der Datenbanken), Computer Science (BSc), Univ. of Koblenz–Landau, Winter Term 2012/2013, 2013/2014, 2014/2015, 2015/2016.

Tutoring





- Advanced Topics in Network Science (Seminar), Univ. of Koblenz–Landau, Summer Term 2016.
- Learning Analytics: Aspects of Machine Learning and Empirical Psychology in E-Learning (Learning Analytics: Aspekte des Machine Learnings und empirischer Psychologie beim E-Learning, Proseminar), Univ. of Koblenz–Landau, Winter Term 2015/2016.
- Recommender Systems (Seminar), Univ. of Koblenz–Landau, Summer Term 2015.
- Distributed Scalable Network Analysis (Research Lab), Univ. of Koblenz–Landau, Winter Term 2014/2015.
- Advanced Topics in Network Theory (Seminar), Univ. of Koblenz–Landau, Summer Term 2014.
- Network Theory and Dynamic Systems, Web Science (MSc), Univ. of Koblenz–Landau, Summer Term 2013, 2014.
- Social Networks (Soziale Netzwerke, Proseminar), Univ. of Koblenz–Landau, Summer Term 2012, 2013.
- Introduction to Database Systems (Grundlagen der Datenbanken), Computer Science (BSc), Univ. of Koblenz–Landau, Winter Term 2010/2011, 2011/2012.

Supervised Theses

- Marcel Reif. Automatische Erkennung von exakten und Near-Duplikaten in einer Netzwerkdatenbank, *Bachelor of Science*, Univ. of Koblenz–Landau, 2016. 
- Nils Geilen. Entwicklung eines Systems zur Vorhersage von Nutzeraktivität auf den Diskussionsseiten der Wikipedia, *Bachelor of Science*, Univ. of Koblenz–Landau, 2015. 

- Jesús Cabello González. Berechnung und Approximation von Kürzeste-Pfad-Statistiken in großen Netzwerken für KONECT, *Bachelor of Science*, Univ. of Cádiz, 2014. 
- Julia Preusse. Analysis of the WebUni Online Student Community, *Dipl.-Inform.*, Otto von Guericke Univ. Magdeburg, 2010. 
- Stephan Spiegel. A Hybrid Approach to Recommender Systems based on Matrix Factorization, *Dipl.-Inform.*, Tech. Univ. Berlin, 2009. 
- Christian Banik. Recommending Wiki Articles using Collaborative Filtering, *Dipl.-Inform.*, Tech. Univ. Berlin, 2009. 
- Iris Breddin. Untersuchung der Klassifizierbarkeit und Klassifikation von Schweißnahtdaten, *Dipl.-Inform.*, Tech. Univ. Berlin, 2008. 

Conference Organization

- [WeST Off-Campus Meeting](#) (OCM), 2016, La Roche-en-Ardenne, Belgium, Chair. 
- [INFORMATIK](#), 2013, Koblenz, Germany, Publicity Chair. 
- [Web Sci. Conf.](#), 2011, Koblenz, Germany, Publicity Chair. 
- [Special Session on Uncertainty in Netw. Min.](#) (UNM) at the Int. Conf. on Inf. Processing and Manag. of Uncertainty in Knowl.-based Systems (IPMU), 2010, Dortmund, Germany, Technical Chair. 

Program Committees

- [Int. Workshop on Complex Netw. and Their Applications](#), 2016.
- [Int. AAAI Conf. on Web and Soc. Media](#) (ICWSM), 2016.
- [Workshop on Soc. News on the Web](#) (SNOW) at the World Wide Web Conf. (WWW), 2014, 2016.
- [Workshop on Soc. Semant. Anal.](#) (SALSA), 2016.
- [#FAIL! – The Workshop Series](#) at the Internet Research Conf. (IR), 2015.
- [Web Sci. Track](#), Int. World Wide Web Conf. (WWW), 2014, 2015.
- [#FAIL! – The Workshop Series](#) at the Web Sci. Conf. (WebSci), 2015.
- [Web Sci. Conf.](#), 2011, 2012, 2013, 2014.
- [Workshop on Connecting Online & Offline Life](#) (COOL) at the World Wide Web Conf. (WWW), 2014.
- [Int. Joint Conf. on Artif. Intell.](#) (IJCAI), 2013.
- [Web Sci. Education Workshop](#) at the Web Sci. Conf., 2013.
- [Conf. on Semant. Tech. and Inf. Retrieval](#) (STAIR), 2013.
- [Int. Workshop on Semant. Personalized Inf. Manag.](#) (SPIM) at the Int. Conf. on Web Search and Data Min. (WSDM), 2013.
- [Eur. Conf. on Inf. Retrieval](#) (ECIR), 2013.
- [Workshop on Metrics, Anal. and Tools for Online Community Manag.](#) (MAMA), at INFORMATIK, 2013
- [Eur. Conf. on Inf. Retrieval](#) (ECIR), poster track, 2012.
- [Conf. on Natural Language Processing](#) (KONVENS), 2012.
- [Workshop on Personalized Inf. Manag.: Linking Soc. and Semant. Web](#) (SPIM) at the Int. Conf. on Web Engineering (ICWE), 2012.
- [Conf. on Inf. and Knowl. Manag.](#) (CIKM), 2011.
- [Int. Conf. on Knowl. Discovery and Data Min.](#) (KDD), research track, 2011.
- [Challenge on Context-aware Movie Recomm.](#) (CAMRa) at the Conf. on Recomm. Systems (RecSys), 2010.

- [Special Session on Uncertainty in Netw. Min.](#) (UNM) at the Int. Conf. on Inf. Processing and Manag. of Uncertainty in Knowl.-based Systems (IPMU), 2010.

Other Reviewing

- [Netw. Sci.](#), 2015, 2016.
- [ACM Comput. Surveys](#), 2014, 2015.
- [The J. of Web Sci.](#), 2014.
- [ACM Trans. on Internet Tech.](#) (TOIT), 2014.
- [Special Issue on “Propagation Phenomenon in Complex Networks: Theory and Practice”](#), New Generation Comput., 2014.
- [Int. Semant. Web Conf.](#) (ISWC), 2013.
- [Int. Conf. on Comput. Stat.](#) (COMPSTAT), 2012.
- [Int. J. of Comput. and Telecommunications Netw.](#) (COMNET), 2012.
- [IEEE Trans. on Neural Netw.](#) (TNN), 2011.
- [J. on Auton. Agents and Multi-agent Systems](#) (AAMAS), Special Issue on Agent Mining, 2011.
- [ACM Trans. on Knowl. Discovery from Data](#) (TKDD), 2011.
- [TV Content Anal.](#) (TVCA), 2011.
- [Workshop on Ontologies and Lexical Resources](#) (OntoLex) at the Int. Conf. on Comput. Linguist. (COLING), 2010.





Articles

- [1] [The Problem of Action at a Distance in Networks and the Emergence of Preferential Attachment from Triadic Closure](#). Jérôme Kunegis, Fariba Karimi, Jun Sun, *J. of Interdiscip. Methodol. and Issues in Sci.*, 2, Graphs and Social Systems, 2017.    
- [2] [Continuous-Time Quantum Walks on Directed Bipartite Graphs](#). Beat Tödtli, Monika Laner, Jouri Semenov, Beatrice Paoli, Marcel Blattner, Jérôme Kunegis, *Phys. Rev. A*, 94(5):052338, 2016.   
- [3] [Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia through Multilingual Co-editing Activity](#). Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier, *Eur. Phys. J. Data Sci.*, 5:9, 2016.    
- [4] [Glaubwürdigkeit und Vertrauen von Online-News](#). Ines C. Vogel, Jutta Milde, Karin Stengel, Steffen Staab, Christoph Carl Kling, Jérôme Kunegis, *Datenschutz und Datensicherheit*, 40(5):312–316, 2015. 
- [5] [Exploiting the Structure of Bipartite Graphs for Algebraic and Spectral Graph Theory Applications](#). Jérôme Kunegis, *Internet Math.*, 11(3):201–321, 2015.  
- [6] [Spectral Evolution in Dynamic Networks](#). Jérôme Kunegis, Damien Fay, Christian Bauckhage, *Knowl. and Inf. Syst.*, 37(1):1–36, 2013. 
- [7] [Discriminating Graphs through Spectral Projections](#). Damien Fay, Hamed Hadadi, Steve Uhlig, Liam Kilmartin, Andrew W. Moore, Jérôme Kunegis, Marios Iliofotou, *Comput. Netw.*, 55(15):3458–3468, 2011. 
- [8] [Ein gradualisiertes Community-Modell zur Bildung wissenschaftlicher Gemeinschaften](#). Michael Hahne, Corinna Jung, Jérôme Kunegis, Andreas Lommatzsch, André Paus, In: *Analyse sozialer Netzwerke und Social Software – Grundlagen und Anwendungsbeispiele*, 2007.  

Conference Papers

- [9] [Tracking the Trackers: A Large-Scale Analysis of Embedded Web Trackers](#). Sebastian Schelter, Jérôme Kunegis, In: *Proc. Int. Conf. on Web and Soc. Media*, pp. 679–682, 2016.   
- [10] [Private-Collective Invention and Open Source Software: Longitudinal Insights from Linux Kernel Development](#). Dirk Homscheid, Jérôme Kunegis, Mario Schaarschmidt, In: *Proc. IFIP Conf. on e-Business, e-Services and e-Society*, pp. 299–313, 2015.  
- [11] [Voting Behaviour and Power in Online Democracy: A Study of LiquidFeedback in Germany's Pirate Party](#). Christoph Carl Kling, Jérôme Kunegis, Heinrich Hartmann, Markus Strohmaier, Steffen Staab, In: *Proc. Int. Conf. on Weblogs and Soc. Media*, pp. 208–217, 2015.     
- [12] [Detecting Non-Gaussian Geographical Topics in Tagged Photo Collections](#). Christoph Carl Kling, Jérôme Kunegis, Sergej Sizov, Steffen Staab, In: *Proc. Int. Conf. on Web Search and Data Min.*, pp. 603–612, 2014.  
- [13] [Preferential Attachment in Online Networks: Measurement and Explanations](#). Jérôme Kunegis, Marcel Blattner, Christine Moser, In: *Proc. Web Sci. Conf.*, pp. 205–214, 2013.    
- [14] [What Is the Added Value of Negative Links in Online Social Networks?](#) Jérôme Kunegis, Julia Preusse, Felix Schwagereit, In: *Proc. Int. World Wide Web Conf.*, pp. 727–736, 2013.  
- [15] [Centrality and Mode Detection in Dynamic Contact Graphs; a Joint Diagonalisation Approach](#). Damien Fay, Jérôme Kunegis, Eiko Yoneki, In: *Proc. Int. Conf. on Advances in Soc. Netw. Anal. and Min.*, pp. 41–48, 2013. 
- [16] [Structural Dynamics of Knowledge Networks](#). Julia Preusse, Jérôme Kunegis, Matthias Thimm, Thomas Gottron, Steffen Staab, In: *Proc. Int. Conf. on Weblogs and Soc. Media*, pp. 506–515, 2013.  
- [17] [Predicting Directed Links using Nondiagonal Matrix Decompositions](#). Jérôme Kunegis, Jörg Fliege, In: *Proc. Int. Conf. on Data Min.*, pp. 948–953, 2012.  
- [18] [Fairness on the Web: Alternatives to the Power Law](#). Jérôme Kunegis, Julia Preusse, In: *Proc. Web Sci. Conf.*, pp. 175–184, 2012.    
- [19] [Diversity Dynamics in Online Networks](#). Jérôme Kunegis, Sergej Sizov, Felix Schwagereit, Damien Fay, In: *Proc. Conf. on Hypertext and Soc. Media*, pp. 255–264, 2012.   
- [20] [Searching Microblogs: Coping with Sparsity and Document Quality](#). Nasir Naveed, Thomas Gottron, Jérôme Kunegis, Arifah Che Alhadi, In: *Proc. Int. Conf. on Inf. and Knowl. Manag.*, pp. 183–188, 2011.  
- [21] [Bad News Travels Fast: A Content-based Analysis of Interestingness on Twitter](#). Nasir Naveed, Thomas Gottron, Jérôme Kunegis, Arifah Che Alhadi, In: *Proc. Web Sci. Conf.*, 2011.    
- [22] [Network Growth and the Spectral Evolution Model](#). Jérôme Kunegis, Damien Fay, Christian Bauckhage, In: *Proc. Int. Conf. on Inf. and Knowl. Manag.*, pp. 739–748, 2010.   
- [23] [The Link Prediction Problem in Bipartite Networks](#). Jérôme Kunegis, Ernesto W. De Luca, Şahin Albayrak, In: *Proc. Int. Conf. in Inf. Processing and Manag. of Uncertainty in Knowl.-based Syst.*, pp. 380–389, 2010.  
- [24] [Spectral Analysis of Signed Graphs for Clustering, Prediction and Visualization](#). Jérôme Kunegis, Stephan Schmidt, Andreas Lommatzsch, Jürgen Lerner, In: *Proc. SIAM Int. Conf. on Data Min.*, pp. 559–570, 2010.     
- [25] [Connecting Senior Citizens through Interactive TV](#). Barış Karataş, Torsten Schmidt, Jérôme Kunegis, Till Plumbaum, In: *Proc. Ambient Assist. Living*, 2010. 



- [26] [Learning Spectral Graph Transformations for Link Prediction](#). Jérôme Kunegis, Andreas Lommatzsch, In: *Proc. Int. Conf. on Mach. Learn.*, pp. 561–568, 2009.     
- [27] [The Slashdot Zoo: Mining a Social Network with Negative Edges](#). Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, In: *Proc. Int. World Wide Web Conf.*, pp. 741–750, 2009.    
- [28] [Alternative Similarity Functions for Graph Kernels](#). Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, In: *Proc. Int. Conf. on Pattern Recognit.*, 2008.   
- [29] [Modeling Collaborative Similarity with the Signed Resistance Distance Kernel](#). Jérôme Kunegis, Stephan Schmidt, Christian Bauckhage, Martin Mehlitz, Şahin Albayrak, In: *Proc. Eur. Conf. on Artif. Intell.*, pp. 261–265, 2008.  
- [30] [Assessing the Value of Unrated Items in Collaborative Filtering](#). Jérôme Kunegis, Andreas Lommatzsch, Martin Mehlitz, Şahin Albayrak, In: *Proc. Int. Conf. on Digital Inf. Manag.*, pp. 212–216, 2007.  
- [31] [Adapting Ratings in Memory-Based Collaborative Filtering using Linear Regression](#). Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on Inf. Reuse and Integration*, pp. 49–54, 2007.  
- [32] [Collaborative Filtering using Electrical Resistance Network Models with Negative Edges](#). Jérôme Kunegis, Stephan Schmidt, In: *Proc. Industrial Conf. on Data Min.*, pp. 269–282, 2007.  
- [33] [A Multi-agent Framework for Personalized Information Filtering](#). Andreas Lommatzsch, Martin Mehlitz, Jérôme Kunegis, In: *Proc. German e-Science*, 2007.  
- [34] [Using Novel IR Measures to Learn Optimal Cluster Structures for Web Information Retrieval](#). Martin Mehlitz, Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on Web Intell.*, pp. 312–316, 2007. 
- [35] [Scalable Bandwidth Optimization in Advance Reservation Networks](#). Stephan Schmidt, Jérôme Kunegis, In: *Proc. Int. Conf. on Netw.*, pp. 95–100, 2007. 
- [36] [A New Evaluation Measure for Information Retrieval Systems](#). Martin Mehlitz, Christian Bauckhage, Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on Syst., Man and Cybern.*, pp. 1200–1204, 2007. 
- Workshop Papers**
- [37] [Predicting User Roles in Social Networks using Transfer Learning with Feature Transformation](#). Jun Sun, Jérôme Kunegis, Steffen Staab, In: *Proc. Int. Conf. on Data Min. Workshops*, pp. 128–135, Int. Workshop on Data Min. in Netw., 2016.   
- [38] [KONECT – The Koblenz Network Collection](#). Jérôme Kunegis, In: *Proc. Int. Conf. on World Wide Web Companion*, pp. 1343–1350, Web Obs. Workshop, 2013.    
- [39] [Online Dating Recommender Systems: The Split-complex Number Approach](#). Jérôme Kunegis, Gerd Gröner, Thomas Gotttron, In: *Proc. RecSys Workshop on Recomm. Syst. and the Soc. Web*, pp. 37–44, 2012.    
- [40] [KONECT Cloud – Large Scale Network Mining in the Cloud](#). Jérôme Kunegis, In: *Proc. Spring 2012 Future SOC Lab Day*, pp. 107–110, HPI Technical Report Series, 2012.    
- [41] [Link Prediction on Evolving Data using Tensor Factorization](#). Stephan Spiegel, Jan Clausen, Şahin Albayrak, Jérôme Kunegis, In: *Proc. Int. Conf. on Data Min. Workshops*, pp. 262–269, Workshop on Behav. Informat., 2011.  
- [42] [Multilingual Ontology-based User Profile Enrichment](#). Ernesto W. De Luca, Till Plumbaum, Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on World Wide Web Companion*, pp. 41–42, Workshop on the Multiling. Semant. Web, 2010. 

- [43] [Hydra: A Hybrid Recommender System \[Cross-Linked Rating and Content Information\]](#). Stephan Spiegel, Jérôme Kunegis, Fang Li, In: *Proc. Int. Workshop on Complex Netw. Meet Inf. and Knowl. Manag.*, pp. 75–80, 2009. 
- [44] [On the Scalability of Graph Kernels Applied to Collaborative Recommenders](#). Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, Şahin Albayrak, In: *Proc. Eur. Conf. on Artif. Intell. Workshops*, pp. 35–38, Workshop on Recomm. Syst., 2008.  
- [45] [Resource-Aware Update Policy for Highly Dynamic P2P Networks](#). Dragan Milošević, Jérôme Kunegis, Şahin Albayrak, In: *Proc. Int. Conf. on Web Intell. and Intell. Agent Tech. Workshops*, pp. 419–423, Int. Workshop on P2P Comput. and Auton. Agents, 2007. 














Abstracts

- [46] [‘Dark Germany’: Temporal Characteristics and Connectivity Patterns in Online Far-Right Protests Against Refugee Housing](#). Sebastian Schelter, Jérôme Kunegis, In: *Proc. Web Sci. Conf. Extended Abstracts*, 2017. 
- [47] [The Problem of Action at a Distance in Networks and the Emergence of Preferential Attachment from Triadic Closure](#). Jérôme Kunegis, Fariba Karimi, Jun Sun, In: *Proc. Int. Sch. and Conf. on Netw. Sci.*, 2017.  
- [48] [Social Networking by Proxy: Analysis of Dogster, Catster and Hamsterster](#). Daniel Dünker, Jérôme Kunegis, In: *Proc. Int. Conf. on World Wide Web Companion*, pp. 361–362, 2015.  
- [49] [Twitter as a Political Network – Predicting the Following and Unfollowing Behavior of German Politicians](#). Julia Perl, Claudia Wagner, Jérôme Kunegis, Steffen Staab, In: *Proc. Web Sci. Conf.*, 2015. 
- [50] [Linguistic Influence Patterns within the Global Network of Wikipedia Language Editions](#). Anna Samoilenko, Fariba Karimi, Jérôme Kunegis, Daniel Edler, Markus Strohmaier, In: *Proc. Web Sci. Conf.*, 2015. 
- [51] [KONECT – The Koblenz Network Collection](#). Jérôme Kunegis, Steffen Staab, Daniel Dünker, In: *Proc. Int. Sch. and Conf. on Netw. Sci.*, 2012. 
- [52] [LiveTweet: Monitoring and Predicting Interesting Microblog Posts](#). Arifah Che Alhadi, Thomas Gotttron, Jérôme Kunegis, Nasir Naveed, In: *Proc. Eur. Conf. on Inf. Retrieval Demonstrations*, pp. 569–570, 2012.  
- [53] [Time-Aware Centrality in Contact Network Analysis](#). Eiko Yoneki, Damien Fay, Jérôme Kunegis, In: *Proc. Eur. Conf. on Complex Syst.*, pp. 58, 2011. 
- [54] [LiveTweet: Microblog Retrieval Based on Interestingness and an Adaptation of the Vector Space Model](#). Arifah Che Alhadi, Thomas Gotttron, Jérôme Kunegis, Nasir Naveed, In: *Proc. Text Retrieval Conf.*, 2011. 
- [55] [One Community Does Not Rule Them All](#). Thomas Gotttron, Jérôme Kunegis, Ansgar Scherp, Steffen Staab, In: *Proc. Web Sci. Conf.*, 2011. 
- [56] [Exploiting Hierarchical Tags for Context-awareness](#). Alan Said, Jérôme Kunegis, Ernesto W. De Luca, Şahin Albayrak, In: *Proc. Workshop on Exploiting Semantic Annotations for Inf. Retrieval*, pp. 35–36, 2010.  





Miscellaneous Peer-Reviewed Publications

- [57] [Spectral Evolution of Social Networks](#). Jérôme Kunegis, *Encyclopedia of Soc. Netw. Anal. and Min.*, Springer, 2013. 
- [58] [Social Network Datasets](#). Jérôme Kunegis, *Encyclopedia of Soc. Netw. Anal. and Min.*, Springer, 2013. 



Other Publications

- [59] [Handbook of Network Analysis \[KONECT project\]](#). Jérôme Kunegis, *CoRR*, abs/1402.5500(v4), 2017.  
- [60] [On the Ubiquity of Web Tracking: Insights from a Billion-Page Web Crawl](#). Sebastian Schelter, Jérôme Kunegis, In review, 2016.  
- [61] [Social Networking by Proxy: A Case Study of Catster, Dogster and Hamsterster](#). Daniel Dünker, Jérôme Kunegis, *CoRR*, abs/1501.04527, 2015. 
- [62] [Applications of Structural Balance in Signed Social Networks](#). Jérôme Kunegis, *CoRR*, abs/1402.6865, 2014. 
- [63] [DecLiNe – Models for Decay of Links in Networks](#). Julia Preusse, Jérôme Kunegis, Matthias Thimm, Sergej Sizov, *CoRR*, abs/1403.4415, 2014. 
- [64] [Polcovar: Software for Computing the Mean and Variance of Subgraph Counts in Random Graphs](#). Jérôme Kunegis, *CoRR*, abs/1402.5835, 2014.  
- [65] [On Joint Diagonalisation for Dynamic Network Analysis](#). Damien Fay, Jérôme Kunegis, Eiko Yoneki, Technical report, University of Cambridge, 2011.  
- [66] [The Universal Recommender](#). Jérôme Kunegis, Alan Said, Winfried Umbrath, White paper, 2009.  













Popularization


- [67] [How to Pronounce German Vowels](#). Jérôme Kunegis, 2017. 
- [68] [Binary Fluorine Compounds](#). Jérôme Kunegis, 2017. 
- [69] [Pronunciation of English Vowels](#). Jérôme Kunegis, 2015. 
- [70] [Taxonomy of \$n \times n\$ Matrices](#). Jérôme Kunegis, 2012. 

Keynotes and Invited Talks

- [T1] [Algebraic Graph-theoretic Measures of Conflict](#), *Journée Graphes et Systèmes Sociaux* (Seminar on Graphs and Soc. Systems), 2016. 
- [T2] [Measuring Conflict in Signed Soc. Networks](#), *Application of Netw. Theory on Comput. Soc. Sci. (Workshop)*, 2015.
- [T3] [Large Network Collections: The Power of Many Datasets](#), *Int. Workshop on Soc. Netw. Anal. (ARS)*, 2015.
- [T4] [Network Analysis Tools for Online Communities: The Koblenz Network Collection](#). Keynote, *Workshop on Metrics, Anal. and Tools for Online Community Manag. (MAMA)*, 2013. 

Other Talks



- [T5] [The New KONECT Project at the University of Namur](#). Univ. of Namur, 2017. 
- [T6] [Generating Networks with Realistic Properties Based on a Given \(Set of\) Network\(s\), and a Short Overview of the KONECT Project](#). Univ. of Namur, 2016. 
- [T7] [Web Science in Practice: Web Observatories](#). WSTNet Web Sci. Summer Sch., 2016. 
- [T8] [It's Really about Hamsters](#). Int. Conf. on Weblogs and Soc. Media Sci. Slam, 2016.   
- [T9] [KONECT: The Koblenz Network Collection – Towards a Broad Analysis of Complex Systems](#). ETH Zürich, 2015. 
- [T10] [Modeling the Evolution of Networks as Shrinking Structural Diversity](#). Univ. of Koblenz–Landau, 2015. 
- [T11] [Trust in Networks](#). KoMePol Project, 2013. 
- [T12] [Observing the Web: The Koblenz Network Collection](#). Bournemouth Univ., 2013. 
- [T13] [Eight Formalisms for Defining Graph Models](#). Univ. of Koblenz–Landau, 2013. 
- [T14] [Diversity vs Uniformity: Understanding the Evolution of Large Networks](#). ROBUST Project, 2012. 





- [T15] [Linguistic Network Analysis with the Koblenz Network Collection](#). Workshop on Modeling Linguist. Networks, 2012. 
- [T16] Growth and Decay: Using Machine Learning to Predict the Web's Future, Workshop on Artif. Intell. on the Web, 2012.
- [T17] Models of Like, Dislike, Similarity and Dissimilarity using Split-complex Numbers, Univ. Coll. Dublin, 2012.
- [T18] [Why Is Beyoncé More Popular Than Me: Fairness, Diversity and Other Measures of Network Equality](#). Univ. of Freiburg, 2012. 
- [T19] Fairness on the Web: Alternatives to the Power Law. Leibniz-Institut für Sozialwissenschaften, Cologne, 2012.
- [T20] [KONECT – The Koblenz Network Collection](#). WSTNet Meeting, 2012. 
- [T21] On the Spectral Evolution of Large Networks. Univ. Coll. Cork, 2011.
- [T22] [Spectral Analysis of the Vector Space Model \(and Explicit Semantic Analysis\)](#). Jérôme Kunegis, Thomas Gottron, Univ. of Koblenz–Landau, 2011. 
- [T23] On the Spectral Evolution of Large Networks. Fraunhofer IAIS, St. Augustin, 2011.
- [T24] On the Spectral Evolution of Large Networks. Tech. Univ. Berlin, 2011.
- [T25] The Slashdot Zoo: Mining a Social Network with Negative Edges. Data and Knowl. Engineering Research Colloquium, Otto von Guericke Univ. Magdeburg, 2010.
- [T26] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Koblenz–Landau, 2010.
- [T27] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Hannover, 2010.
- [T28] [Kernel Methods](#). Competence Center for Information Retrieval and Machine Learning (CC IRML) Journal Club, 2008. 
- [T29] [PIA+COMM – an Intelligent Search Engine](#). Michael Hahne, Corinna Jung, Jérôme Kunegis, Andreas Lommatzsch and André Paus. Workshop on the Formation of Soc. Netw. in Soc. Software Applications, INFORMATIK, 2006. 
- [T30] [Research at the DAI Laboratory](#). 2006. 
- [T31] [Schach und Computer](#). Seminar *Geschichte der Entwicklung des Computers*, Tech. Univ. Berlin, 2005. 
- [T32] [Wettkampf Kasparow – Deep Blue](#). Ahmad Haj Fares and Jérôme Kunegis. Seminar *Computerschach*, 2003. 

**Talks with
Co-authorship
Credit**





- [T33] Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia Through Multilingual Co-editing Activity. Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis and Markus Strohmaier. Int. Conf. on Comput. Soc. Sci., 2017.
- [T34] Challenges in Mining Social Media: Sparsity and Quality. Thomas Gottron, Nasir Naveed, Jérôme Kunegis, Arifah Che Alhadi. Challenges in Document Min. (Dagstuhl Seminar 11171), 2011.

**Posters without
Publication**

- [P1] Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia through Multilingual Co-editing Activity. Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier, Int. Sch. and Conf. on Netw. Sci. (NetSciX), 2016.  ★
- [P2] Do You Use Stu? Soon, You'll Do. Jérôme Kunegis, WeST Institute Off-Campus Meeting (OCM), 2016. 

- [P3] Social Network Observatory. Jérôme Kunegis, Markus Strohmaier, Steffen Staab. Computat. Soc. Sci. Winter Symp. (CSSWS), 2015. 
- [P4] Quantifying Cultural Similarity through Language Co-occurrences in Wikipedia Editing Activity. Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier. Comput. Soc. Sci. Winter Symp. (CSSWS), 2015.
- [P5] Polarisation in Voting Platforms: A Case Study of LiquidFeedback in the German Pirate Party. Manuel Mittler, Christoph Carl Kling, Jérôme Kunegis, Markus Strohmaier, Comput. Soc. Sci. Winter Symp. (CSSWS), 2015.
- [P6] Twitter as a Political Network – Predicting the Following and Unfollowing Behavior of German Politicians. Julia Perl, Claudia Wagner, Jérôme Kunegis, Steffen Staab, Web Sci. Conf., 2015.
- [P7] Online Delegative Democracy: A Case Study of the German Pirate Party’s Voting Platform. Christoph Carl Kling, Jérôme Kunegis, Heinrich Hartmann. Comput. Soc. Sci. Winter Symp. (CSSWS), 2014.
- [P8] Social Networking By Proxy: A Case Study of Catster, Dogster and Hamsterster. Comput. Soc. Sci. Winter Symp. (CSSWS), 2014.
- [P9] A Theory-Driven Approach for Link and Unlink Predictions in Directed Social Networks. Julia Perl, Claudia Wagner, Jérôme Kunegis, Steffen Staab. Comput. Soc. Sci. Winter Symp. (CSSWS), 2014.
- [P10] Large Scale Network Analysis [KONECT – The Koblenz Network Collection]. Jérôme Kunegis, Tag der Computervisualistik (CV-Tag), University of Koblenz–Landau, 2013. 
- [P11] Need Networks? KONECT – The Koblenz Network Collection. Eur. Summer Sch. on Inf. Retrieval (ESSIR), 2011.
- [P12] KONECT – The Koblenz Network Collection. Web Sci. Conf., 2011.
- [P13] Uncovering Multi-modal Spread Modes using Joint Diagonalization in Dynamic Human Contact Networks. Damien Fay, Jérôme Kunegis, Eiko Yoneki. Interdiscip. Workshop on Inf. and Decision in Soc. Netw., 2011.
- [P14] On the Spectral Evolution of Large Networks. Postersession für Nachwuchswissenschaftler/innen, Univ. of Koblenz–Landau, 2011. 
- [P15] On the Spectral Evolution of Large Networks. SIAM Conf. on Data Min. Doctoral Forum (SIAM SDM), 2010. 

Demonstrations

- [D1] Schülerinformationstage, Institute for Web Science and Technologies, Univ. of Koblenz–Landau, 2011, 2013, 2015, 2016. 
- [D2] Institute for Web Science and Technologies, conference booth. [INFORMATIK 2013](#).
- [D3] LiveTweet: Monitoring and Predicting Interesting Microblog Posts, [Eur. Conf. on Inf. Retrieval \(ECIR\)](#), 2012.  
- [D4] PIA, Spree, CeBIT, 2010.
- [D5] PIA+COMM, CeBIT, 2007. 
- [D6] PIA, Lange Nacht der Wissenschaften Berlin/Potsdam, 2006.

Volunteering

- [WSTNet Web Science Summer School \(WWSSS\)](#), Koblenz, 2016.
- [Festival of Ideas](#), University of Cambridge, 2013.
- [International Semantic Web Conference \(ISWC\)](#), Bonn, 2011
- [European Summer School on Information Retrieval \(ESSIR\)](#), Koblenz, 2011.

Software

- [Stu](#), build automation (C++11)
- [KONECT Toolbox](#), network analysis toolbox (Matlab, C99)
- [Polcovar](#), software for counting patterns in random graphs (Matlab)
- [Universal Recommender](#), recommendation library (Java)
- [BabyChess](#), chess engine and GUI (C++98)
- *More: see github.com/kunegis*



Mentions in Media

- [Die Abstimmungssoftware LiquidFeedback in der Piratenpartei: wegweisend für Demokratie 2.0?](#), www.piratenpartei.de, May 2015.
- [Come ha funzionato davvero la democrazia liquida dei Pirati tedeschi](#), Wired Italia, April 2015.



Awards and Nominations

- First Prize, Int. Conf. on Web and Soc. Media (ICWSM) Science Slam, 2016.
- Best Poster Award, Int. Sch. and Conf. on Netw. Sci. (NetSciX), 2016.
- Best Paper Honorable Mention, Int. Conf. on Web and Soc. Media (ICWSM), 2015.
- Ted Nelson Newcomer Award Nominee, Conf. on Hypertext and Soc. Media (HT), 2012.
- Student Travel Award, Int. Conf. on Inf. and Knowl. Manag. (CIKM), 2010.
- Student Travel Fellowship Award, SIAM Conf. on Data Min. (SDM), 2010.
- Best Paper Nominee, Industrial Conf. on Data Min. (IndCDM), 2007.
- Premier Prix (First Prize), Rallye mathématique d'Alsace, Terminale (Alsace Mathematical Rally), 1999.



Miscellaneous

- Birthday: March 27
- Languages: French (first language), German (first language), English (advanced)
- Programming languages and technologies I use extensively: Bourne shell, C, C++, Java, Latex, Make, Matlab, GNU Octave, sed
- Principal other programming languages and technologies I have used: BASIC, HTML, JavaScript, Logo, Perl, PHP, Turbo Pascal