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## Education

- |      |  |      |   |
|------|--|------|---|
| [E1] | <b>Dr. rer. nat.</b> , University of Koblenz–Landau<br>Thesis: <i>On the Spectral Evolution of Large Networks</i>                        | 2011 |     |
| [E2] | <b>Dipl.-Inform.</b> , Technical University of Berlin<br>Thesis: <i>Using Integer Linear Programming for Search Results Optimization</i> | 2006 |    |
| [E3] | <b>Vordiplom</b> , Technical University of Berlin<br>Studiengang: Informatik   | 2003 |   |
| [E4] | <b>Baccalauréat</b> , Lycée Français de Berlin<br>Série scientifique   | 1999 |   |
| [E5] | <b>Abitur</b> , Lycée Français de Berlin<br>Leistungskurse: Mathematik, Physik   | 1999 |   |
| [E6] | <b>Diplôme national du brevet</b> , Lycée Français de Berlin<br>Série collège  | 1996 |   |












## Positions

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

## Research 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

<sup>1</sup>This version of this file is up to date as of September 07, 2020; a current version is maintained at [github.com/kunegis/cv](https://github.com/kunegis/cv).

<sup>2</sup> Legend:  Publication is available  Publication is available on arXiv  Poster is available  Slides are available  Publication has 100+ citations  Publication/event has an accompanying website  Dataset is available  Source code is available  Video of talk is available  A blog article was written about the topic  Publication has media coverage ★ Prize ☆ Nomination for a prize

- 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
- [LSR](#) 2010  
Learning Semantic Recommenders
- [UCPM](#) 2010  
User Centric Profile Management
- [SERUM](#) 2010  
Semantic Recommenders Based on Large Unstructured Datasets
- [Connected Living](#) 2009–2010  
Innovationszentrum “Vernetztes Leben” – Innovation Center “Connected Living”
- [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

- Graph Theory (Théorie des graphes, in French), Mathematics (BSc), Univ. of Namur, First Quadrimester 2017/18, 2018/19.
- Network Theory and Dynamic Systems, Web Science (MSc), Univ. of Koblenz–Landau, Summer Term 2014, 2015, 2016.
- Introduction to Database Systems (Grundlagen der Datenbanken, in German), Computer Science (BSc), Univ. of Koblenz–Landau, Winter Term 2012/13, 2013/14, 2014/15, 2015/16.

## 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, *BSc*, Univ. of Koblenz–Landau, 2016. 
- Nils Geilen. Entwicklung eines Systems zur Vorhersage von Nutzeraktivität auf den Diskussionsseiten der Wikipedia, *BSc*, Univ. of Koblenz–Landau, 2015. 
- Jesús Cabello González. Berechnung und Approximation von Kürzeste-Pfad-Statistiken in großen Netzwerken für KONECT, *BSc*, 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

- [Jt. Int. Workshop on Soc. Influ. Anal. and Min. Actionable Insights from Soc. Netw.](#) (SocInf+MAISoN) at the Int. Jt. Conf. on Artif. Intell. and Eur. Conf. on Artif. Intell. (IJCAI-ECAI), 2018, Stockholm, Sweden, Program Chair. 
- [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 Syst. (IPMU), 2010, Dortmund, Germany, Technical Chair. 

## Articles

- [1] [Understanding Social Networks using Transfer Learning](#). Jun Sun, Steffen Staab, Jérôme Kunegis, *IEEE Comput. Mag.*, 51(6):52–60, 2018.  
- [2] [On the Ubiquity of Web Tracking: Insights from a Billion-Page Web Crawl](#). Sebastian Schelter, Jérôme Kunegis, *J. of Web Sci.*, 4(4):53–66, 2018.      
- [3] [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.    
- [4] [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.   
- [5] [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.    
- [6] [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. 

- [7] [Exploiting the Structure of Bipartite Graphs for Algebraic and Spectral Graph Theory Applications](#). Jérôme Kunegis, *Internet Math.*, 11(3):201–321, 2015.  
- [8] [Spectral Evolution in Dynamic Networks](#). Jérôme Kunegis, Damien Fay, Christian Bauckhage, *Knowl. and Inf. Syst.*, 37(1):1–36, 2013. 
- [9] [Discriminating Graphs through Spectral Projections](#). Damien Fay, Hamed Haddadi, Steve Uhlig, Liam Kilmartin, Andrew W. Moore, Jérôme Kunegis, Marios Iliofotou, *Comput. Netw.*, 55(15):3458–3468, 2011. 
- [10] [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

- [11] [‘Dark Germany’: Hidden Patterns of Participation in Online Far-Right Protests Against Refugee Housing](#). Sebastian Schelter, Jérôme Kunegis, In: *Proc. Int. Conf. on Soc. Inform.*, pp. 277–288, 2017.  
- [12] [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.    
- [13] [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.  
- [14] [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.     
- [15] [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.  
- [16] [Preferential Attachment in Online Networks: Measurement and Explanations](#). Jérôme Kunegis, Marcel Blattner, Christine Moser, In: *Proc. Web Sci. Conf.*, pp. 205–214, 2013.    
- [17] [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.   
- [18] [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. 
- [19] [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.  
- [20] [Predicting Directed Links using Nondiagonal Matrix Decompositions](#). Jérôme Kunegis, Jörg Fliege, In: *Proc. Int. Conf. on Data Min.*, pp. 948–953, 2012.  
- [21] [Fairness on the Web: Alternatives to the Power Law](#). Jérôme Kunegis, Julia Preusse, In: *Proc. Web Sci. Conf.*, pp. 175–184, 2012.    
- [22] [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.   










- [23] [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.   
- [24] [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.     
- [25] [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.   
- [26] [The Link Prediction Problem in Bipartite Networks](#). Jérôme Kunegis, Ernesto W. De Luca, Şahin Albayrak, In: *Proc. Int. Conf. in Inf. Process. and Manag. of Uncertain. in Knowl.-based Syst.*, pp. 380–389, 2010.  
- [27] [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.     
- [28] [Connecting Senior Citizens through Interactive TV](#). Barış Karataş, Torsten Schmidt, Jérôme Kunegis, Till Plumbaum, In: *Proc. Ambient Assist. Living*, 2010. 
- [29] [Learning Spectral Graph Transformations for Link Prediction](#). Jérôme Kunegis, Andreas Lommatzsch, In: *Proc. Int. Conf. on Mach. Learn.*, pp. 561–568, 2009.     
- [30] [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.     
- [31] [Alternative Similarity Functions for Graph Kernels](#). Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, In: *Proc. Int. Conf. on Pattern Recognit.*, 2008.   
- [32] [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.   
- [33] [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.  
- [34] [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.  
- [35] [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.  
- [36] [A Multi-agent Framework for Personalized Information Filtering](#). Andreas Lommatzsch, Martin Mehlitz, Jérôme Kunegis, In: *Proc. German e-Science*, 2007.  
- [37] [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. 
- [38] [Scalable Bandwidth Optimization in Advance Reservation Networks](#). Stephan Schmidt, Jérôme Kunegis, In: *Proc. Int. Conf. on Netw.*, pp. 95–100, 2007. 
- [39] [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	[40]	<a href="#">Predicting User Roles in Social Networks using Transfer Learning with Feature Transformation</a> . Jun Sun, Jérôme Kunegis, Steffen Staab, In: <i>Proc. Int. Conf. on Data Min. Workshops</i> , pp. 128–135, Int. Workshop on Data Min. in Netw., 2016.	  
	[41]	<a href="#">KONECT – The Koblenz Network Collection</a> . Jérôme Kunegis, In: <i>Proc. Int. Conf. on World Wide Web Companion</i> , pp. 1343–1350, Web Obs. Workshop, 2013.	   
	[42]	<a href="#">Online Dating Recommender Systems: The Split-complex Number Approach</a> . Jérôme Kunegis, Gerd Gröner, Thomas Gotttron, In: <i>Proc. RecSys Workshop on Recomm. Syst. and the Soc. Web</i> , pp. 37–44, 2012.	   
	[43]	<a href="#">KONECT Cloud – Large Scale Network Mining in the Cloud</a> . Jérôme Kunegis, In: <i>Proc. Spring 2012 Future SOC Lab Day</i> , pp. 107–110, HPI Technical Report Series, 2012.	   
	[44]	<a href="#">Link Prediction on Evolving Data using Tensor Factorization</a> . Stephan Spiegel, Jan Clausen, Şahin Albayrak, Jérôme Kunegis, In: <i>Proc. Int. Conf. on Data Min. Workshops</i> , pp. 262–269, Workshop on Behav. Informat., 2011.	 
	[45]	<a href="#">Multilingual Ontology-based User Profile Enrichment</a> . Ernesto W. De Luca, Till Plumbaum, Jérôme Kunegis, Şahin Albayrak, In: <i>Proc. Int. Conf. on World Wide Web Companion</i> , pp. 41–42, Workshop on the Multiling. Semant. Web, 2010.	
	[46]	<a href="#">Hydra: A Hybrid Recommender System [Cross-Linked Rating and Content Information]</a> . Stephan Spiegel, Jérôme Kunegis, Fang Li, In: <i>Proc. Int. Workshop on Complex Netw. Meet Inf. and Knowl. Manag.</i> , pp. 75–80, 2009.	
	[47]	<a href="#">On the Scalability of Graph Kernels Applied to Collaborative Recommenders</a> . Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, Şahin Albayrak, In: <i>Proc. Eur. Conf. on Artif. Intell. Workshops</i> , pp. 35–38, Workshop on Recomm. Syst., 2008.	 
Reference Works	[48]	<a href="#">Resource-Aware Update Policy for Highly Dynamic P2P Networks</a> . Dragan Milošević, Jérôme Kunegis, Şahin Albayrak, In: <i>Proc. Int. Conf. on Web Intell. and Intell. Agent Tech. Workshops</i> , pp. 419–423, Int. Workshop on P2P Comput. and Auton. Agents, 2007.	
	[49]	<a href="#">Spectral Evolution of Social Networks</a> . Jérôme Kunegis, <i>Encyclopedia of Soc. Netw. Anal. and Min.</i> , Springer, 2013, 2017.	
	[50]	<a href="#">Social Network Datasets</a> . Jérôme Kunegis, <i>Encyclopedia of Soc. Netw. Anal. and Min.</i> , Springer, 2013, 2017.	
Abstracts	[51]	<a href="#">The Role of Cultural Importance in Sister City Relationships</a> . Mridul Seth, Jérôme Kunegis, Renaud Lambiotte, In: <i>Proc. Wiki Workshop</i> , 2018.	
	[52]	<a href="#">SynGraphy: Succinct Summarisation of Large Networks via Small Synthetic Representative Graphs</a> . Jérôme Kunegis, Pawan Kumar Jun Sun, Giuseppe Pirrò, In: <i>Proc. Int. Sch. and Conf. on Netw. Sci.</i> , 2018.	
	[53]	<a href="#">SynGraphy: Succinct Summarisation of Large Networks via Small Synthetic Representative Graphs</a> . Jérôme Kunegis, Pawan Kumar, Jun Sun, Giuseppe Pirrò, Anna Samoilenko, In: <i>Proc. Belg. Netw. Res. Meet.</i> , 2017.	 
	[54]	<a href="#">Socio-semantic Aspects of Wikipedia Usage across Five Languages</a> . Yérali Gandica, Jérôme Kunegis, In: <i>Proc. Eur. Conf. on Soc. Netw.</i> , 2017.	
	[55]	<a href="#">Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia Through Multilingual Co-editing Activity</a> . Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier, In: <i>Proc. Int. Conf. on Comput. Soc. Sci.</i> , 2017.	



- [56] ‘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.  
- [57] 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.  
- [58] A Random Graph Model based on a Given Set of Networks. Jérôme Kunegis, Jun Sun, Eiko Yoneki, In: *Proc. Int. Sch. and Conf. on Netw. Sci.*, 2016. 
- [59] 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.  
- [60] 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. 
- [61] 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. 
- [62] KONECT – The Koblenz Network Collection. Jérôme Kunegis, Steffen Staab, Daniel Dünker, In: *Proc. Int. Sch. and Conf. on Netw. Sci.*, 2012. 
- [63] 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.  
- [64] Time-Aware Centrality in Contact Network Analysis. Eiko Yoneki, Damien Fay, Jérôme Kunegis, In: *Proc. Eur. Conf. on Complex Syst.*, pp. 58, 2011. 
- [65] 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. 
- [66] One Community Does Not Rule Them All. Thomas Gotttron, Jérôme Kunegis, Ansgar Scherp, Steffen Staab, In: *Proc. Web Sci. Conf.*, 2011. 
- [67] Challenges in Mining Social Media: Sparsity and Quality. Thomas Gotttron, Nasir Naveed, Jérôme Kunegis, Arifah Che Alhadi, In: *Proc. Challenges in Document Min. (Dagstuhl Seminar 11171)*, 2011.
- [68] 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.  

## Other Publications




- [69] Handbook of Network Analysis [KONECT project]. Jérôme Kunegis, *CoRR*, abs/1402.5500(v4), 2017.  
- [70] Social Networking by Proxy: A Case Study of Catster, Dogster and Hamsterster. Daniel Dünker, Jérôme Kunegis, *CoRR*, abs/1501.04527, 2015. 
- [71] Applications of Structural Balance in Signed Social Networks. Jérôme Kunegis, *CoRR*, abs/1402.6865, 2014. 
- [72] DecLiNe – Models for Decay of Links in Networks. Julia Preusse, Jérôme Kunegis, Matthias Thimm, Sergej Sizov, *CoRR*, abs/1403.4415, 2014. 
- [73] Polcovar: Software for Computing the Mean and Variance of Subgraph Counts in Random Graphs. Jérôme Kunegis, *CoRR*, abs/1402.5835, 2014.  
- [74] On Joint Diagonalisation for Dynamic Network Analysis. Damien Fay, Jérôme Kunegis, Eiko Yoneki, Technical report, University of Cambridge, 2011.  

	[75] <a href="#">Semantic Engine</a> . Andreas Lommatzsch, Jérôme Kunegis, Torsten Schmidt, Stefan Marx, White paper, 2010.	 
	[76] <a href="#">The Universal Recommender</a> . Jérôme Kunegis, Alan Said, Winfried Umbrath, White paper, 2009.	 
<b>Popularization</b>	[77] <a href="#">Network of Characters in Harry Potter</a> . Jérôme Kunegis, 2019.	
	[78] <a href="#">Phylogenetic Tree of My Houseplants</a> . Jérôme Kunegis, 2019.	
	[79] <a href="#">Game Dependency Graph: The Secret of Monkey Island</a> . Jérôme Kunegis, 2019.	
	[80] <a href="#">Binary Fluorine Compounds</a> . Jérôme Kunegis, 2017.	
	[81] <a href="#">How to Pronounce German Vowels</a> . Jérôme Kunegis, 2017.	
	[82] <a href="#">Pronunciation of English Vowels</a> . Jérôme Kunegis, 2015.	
	[83] <a href="#">Taxonomy of <math>n \times n</math> Matrices</a> . Jérôme Kunegis, 2012.	
<b>Keynotes and Invited Talks</b>	[T1] Cats, Dogs, and Hamsters: The Secret Online Network of Pet Owners, <a href="#">DataBeers Brussels</a> , 2017.	 
	[T2] <a href="#">Algebraic Graph-theoretic Measures of Conflict</a> , <a href="#">Journée Graphes et Systèmes Sociaux</a> (Seminar on Graphs and Soc. Syst.), 2016.	 
	[T3] Measuring Conflict in Signed Soc. Networks, Application of Netw. Theory on Comput. Soc. Sci. (Workshop), 2015.	
	[T4] Large Network Collections: The Power of Many Datasets, <a href="#">Int. Workshop on Soc. Netw. Anal.</a> (ARS), 2015.	
	[T5] <a href="#">Network Analysis Tools for Online Communities: The Koblenz Network Collection</a> . Keynote, <a href="#">Workshop on Metrics, Anal. and Tools for Online Community Manag.</a> (MAMA), 2013.	 
<b>Academic Tutorials</b>	[T6] <a href="#">Network Analysis in the Age of Large Network Dataset Collections – Challenges, Solutions and Applications</a> . Jérôme Kunegis, Renaud Lambiotte, Int. Conf. on Inf. and Knowl. Manag., 2017.	 
	[T7] <a href="#">Web Science in Practice: Web Observatories</a> . Jérôme Kunegis, Steffen Staab, WSTNet Web Sci. Summer Sch., 2016.	  
<b>Other Talks</b>	[T8] Prediction of Network Semantics from Network Structure: Approaches Based on Large Network Collections. Univ. of Mons, 2018.	
	[T9] <a href="#">What Is the Difference between a Social and a Hyperlink Network? – How the Type of Network Can Be Determined from the Network Structure Alone</a> . Workshop on Network Comparison, Univ. of Oxford, 2017.	
	[T10] <a href="#">Measuring the Conflict in a Social Network with Friends and Foes: A Recent Algebraic Approach</a> . Tech. Univ. Berlin, 2017.	
	[T11] <a href="#">The New KONECT Project at the University of Namur</a> . Univ. of Namur, 2017.	
	[T12] <a href="#">Generating Networks with Realistic Properties Based on a Given (Set of) Network(s), and a Short Overview of the KONECT Project</a> . Univ. of Namur, 2016.	
	[T13] <a href="#">It's Really about Hamsters</a> . Int. Conf. on Weblogs and Soc. Media Sci. Slam, 2016.	  
	[T14] <a href="#">KONECT: The Koblenz Network Collection – Towards a Broad Analysis of Complex Systems</a> . ETH Zürich, 2015.	
	[T15] <a href="#">Modeling the Evolution of Networks as Shrinking Structural Diversity</a> . Univ. of Koblenz–Landau, 2015.	
	[T16] <a href="#">Trust in Networks</a> . KoMePol Project, 2013.	






- [T17] [Observing the Web: The Koblenz Network Collection](#). Bournemouth Univ., 2013. 
- [T18] [Eight Formalisms for Defining Graph Models](#). Univ. of Koblenz–Landau, 2013. 
- [T19] [Diversity vs Uniformity: Understanding the Evolution of Large Networks](#). RO-BUST Project, 2012. 
- [T20] [Linguistic Network Analysis with the Koblenz Network Collection](#). Workshop on Modeling Linguist. Networks, 2012. 
- [T21] Growth and Decay: Using Machine Learning to Predict the Web’s Future, Workshop on Artif. Intell. on the Web, 2012.
- [T22] Models of Like, Dislike, Similarity and Dissimilarity using Split-complex Numbers, Univ. Coll. Dublin, 2012.
- [T23] [Why Is Beyoncé More Popular Than Me: Fairness, Diversity and Other Measures of Network Equality](#). Univ. of Freiburg, 2012. 
- [T24] Fairness on the Web: Alternatives to the Power Law. Leibniz-Institut für Sozialwissenschaften, Cologne, 2012.
- [T25] [KONECT – The Koblenz Network Collection](#). WSTNet Meeting, 2012. 
- [T26] On the Spectral Evolution of Large Networks. Univ. Coll. Cork, 2011.
- [T27] [Spectral Analysis of the Vector Space Model \(and Explicit Semantic Analysis\)](#). Jérôme Kunegis, Thomas Gottron, Univ. of Koblenz–Landau, 2011. 
- [T28] On the Spectral Evolution of Large Networks. Fraunhofer IAIS, St. Augustin, 2011.
- [T29] On the Spectral Evolution of Large Networks. Tech. Univ. Berlin, 2011.
- [T30] The Slashdot Zoo: Mining a Social Network with Negative Edges. Data and Knowl. Engineering Research Colloquium, Otto von Guericke Univ. Magdeburg, 2010.
- [T31] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Koblenz–Landau, 2010.
- [T32] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Hannover, 2010.
- [T33] [Kernel Methods](#). Competence Center for Information Retrieval and Machine Learning (CC IRML) Journal Club, DAI Laboratory, 2008. 
- [T34] [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. 
- [T35] [Research at the DAI Laboratory](#). 2006. 
- [T36] [Schach und Computer](#). Seminar *Geschichte der Entwicklung des Computers*, Tech. Univ. Berlin, 2005. 
- [T37] [Wettkampf Kasparow – Deep Blue](#). Ahmad Haj Fares and Jérôme Kunegis. Seminar *Computerschach*, 2003. 

**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.

## Program Committees

- [Int. Conf. on Complex Netw. and Their Applications](#) [*Workshop* in 2016], 2016, 2017, 2018.
- [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.
- [Int. 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. Syst. (RecSys), 2010.
- [Special Session on Uncertainty in Netw. Min.](#) (UNM) at the Int. Conf. on Inf. Processing and Manag. of Uncertainty in Knowl.-based Syst. (IPMU), 2010.

#### Other Reviewing

- Royal Military Academy (Belgium), 2018.
- [Netw. Sci.](#), 2015, 2016.
- [ACM Comput. Surveys](#), 2014, 2015.
- [The J. of Web Sci.](#), 2014, 2018.
- [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 Syst.](#) (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.

## Volunteering

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

## Software Authorship

- [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](https://github.com/kunegis)*



## Mentions in Media

- [Die Abstimmungssoftware LiquidFeedback in der Piratenpartei: wegweisend für Demokratie 2.0?](#), [www.piratenpartei.de](http://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.
- First Prize, Rallye mathématique d'Alsace, Terminale (Alsace Mathematical Rally, 12<sup>th</sup> grade), 1999.



## Miscellaneous

- Birthday: March 27
- Languages: French (native language), German (native language), English (advanced), Dutch (beginner, A2), Spanish (intermediate), Portuguese (beginner). I have given both lectures and academic talks in English, French and German.
- Programming languages and technologies I use extensively: C, C++, Java, Latex, Stu, Make, Matlab, GNU Octave, sed, sh
- Principal other programming languages and technologies I have used: BASIC, HTML, JavaScript, Logo, Perl, PHP, Turbo Pascal