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#### Education

[E1] Dr. rer. nat., University of Koblenz-Landau Thesis: On the Spectral Evolution of Large Networks

2011

[E2] **Dipl.-Inform.**, Technical University of Berlin

2006

Thesis: Using Integer Linear Programming for Search Results Optimization

1999

[E3] Baccalauréat, Lycée Français de Berlin Série scientifique

1999

[E4] Abitur, Lycée Français de Berlin Leistungskurse: Mathematik, Physik

[E5] **Diplôme national du brevet**, Lycée Français de Berlin Série collège

1996

#### 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

#### Research Projects

• IDEES (ERDF/FEDER – Wallonia/Wallonie) 2017-present L'Internet de Demain pour développer les Entreprises, l'Économie et la Société

 KONECT Koblenz Network Collection 2011-present

• 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

<sup>&</sup>lt;sup>1</sup> Legend: Publication is available R Publication is available on arXiv Fublication has 100+ citations Publication/event has an accompanying website 

■ Dataset is available 

Source code is available 

Video of talk is available ☐ Publication has media coverage ★ Prize ☆ Nomination for a prize

• 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 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 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	
• Graph Theory (Théorie des graphes, in French), Mathematics (BSc), Univ. of Namur, First Quadrimester 2017/18.	
• 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, 2013/142014/15, 2015/16.	4,
• Advanced Topics in Network Science (Seminar), Univ. of Koblenz–Landau, Summer Term 2016.	
• Learning Analytics: Aspects of Machine Learning and Empirical Psychology in E-	

Sensing User Generated Input for Improved Media Discovery and Experience

2013-2014

2012-2013

• SocialSensor (EU FP7-ICT)

Large Scale Network Mining in the Cloud

• KONECT Cloud

## **Tutoring**

Lecturing

- 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.

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- 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

- 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.

### 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 Haddadi, 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] '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.
- [10] 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.
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- [11] 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.



[12] 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.



[13] 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.



[14] Preferential Attachment in Online Networks: Measurement and Explanations. Jérôme Kunegis, Marcel Blattner, Christine Moser, In: *Proc. Web Sci. Conf.*, pp. 205–214, 2013.



[15] 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.



[16] 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.



[17] 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.



[18] Predicting Directed Links using Nondiagonal Matrix Decompositions. Jérôme Kunegis, Jörg Fliege, In: *Proc. Int. Conf. on Data Min.*, pp. 948–953, 2012.



[19] Fairness on the Web: Alternatives to the Power Law. Jérôme Kunegis, Julia Preusse, In: *Proc. Web Sci. Conf.*, pp. 175–184, 2012.



[20] 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.



[21] 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.



[22] 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.



[23] 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.



[24] 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.

- [25] 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.
- [26] Connecting Senior Citizens through Interactive TV. Barış Karataş, Torsten Schmidt, Elerôme Kunegis, Till Plumbaum, In: *Proc. Ambient Assist. Living*, 2010.

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- [27] Learning Spectral Graph Transformations for Link Prediction. Jérôme Kunegis, Andreas Lommatzsch, In: Proc. Int. Conf. on Mach. Learn., pp. 561–568, 2009.
- [28] 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.
- [29] Alternative Similarity Functions for Graph Kernels. Jérôme Kunegis, Andreas Lommatzsch, Christian Bauckhage, In: *Proc. Int. Conf. on Pattern Recognit.*, 2008.
- [30] 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.
- [31] 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.
- [32] 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.
- [33] 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.
- [34] A Multi-agent Framework for Personalized Information Filtering. Andreas Lommatzsch, Martin Mehlitz, Jérôme Kunegis, In: Proc. German e-Science, 2007.
- [35] 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.
- [36] Scalable Bandwidth Optimization in Advance Reservation Networks. Stephan Schmidt, Jérôme Kunegis, In: *Proc. Int. Conf. on Netw.*, pp. 95–100, 2007.
- [37] 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

- [38] 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.
- [39] KONECT The Koblenz Network Collection. Jérôme Kunegis, In: *Proc. Int. Conf. on World Wide Web Companion*, pp. 1343–1350, Web Obs. Workshop, 2013.
- [40] Online Dating Recommender Systems: The Split-complex Number Approach. Jérôme Kunegis, Gerd Gröner, Thomas Gottron, In: *Proc. RecSys Workshop on Recomm. Syst. and the Soc. Web*, pp. 37–44, 2012.
- [41] 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.

[42] 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.

•

- [43] 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.
- [44] 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.
- [45] 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.
- [46] 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

- [47] Socio-semantic Aspects of Wikipedia Usage across Five Languages. Yérali Gandica, Jérôme Kunegis, In: *Proc. Eur. Conf. on Soc. Netw.*, 2017.
- [48] Linguistic Neighbourhoods: Explaining Cultural Borders on Wikipedia Through Multilingual Co-editing Activity. Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis, Markus Strohmaier, In: *Proc. Int. Conf. on Comput. Soc. Sci.*, 2017
- [49] '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.
- [50] 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.
- [51] 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.
- [52] 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.
- [53] 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.
- [54] KONECT The Koblenz Network Collection. Jérôme Kunegis, Steffen Staab, Daniel Dünker, In: *Proc. Int. Sch. and Conf. on Netw. Sci.*, 2012.
- [55] LiveTweet: Monitoring and Predicting Interesting Microblog Posts. Arifah Che Alhadi, Thomas Gottron, Jérôme Kunegis, Nasir Naveed, In: *Proc. Eur. Conf. on Inf. Retrieval Demonstrations*, pp. 569–570, 2012.
- [56] Time-Aware Centrality in Contact Network Analysis. Eiko Yoneki, Damien Fay, Jérôme Kunegis, In: *Proc. Eur. Conf. on Complex Syst.*, pp. 58, 2011.
- [57] LiveTweet: Microblog Retrieval Based on Interestingess and an Adaptation of the Vector Space Model. Arifah Che Alhadi, Thomas Gottron, Jérôme Kunegis, Nasir Naveed, In: *Proc. Text Retrieval Conf.*, 2011.

[58] One Community Does Not Rule Them All. Thomas Gottron, Jérôme Kunegis, I≣ì Ansgar Scherp, Steffen Staab, In: Proc. Web Sci. Conf., 2011. [59] Challenges in Mining Social Media: Sparsity and Quality. Thomas Gottron, Nasir Naveed, Jérôme Kunegis, Arifah Che Alhadi, In: Proc. Challenges in Document Min. (Dagstuhl Seminar 11171), 2011. [60] 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. Reference Works [61] Spectral Evolution of Social Networks. Jérôme Kunegis, Encyclopedia of Soc. Netw. Anal. and Min., Springer, 2013, 2017. [62] Social Network Datasets. Jérôme Kunegis, Encyclopedia of Soc. Netw. Anal. and Min., Springer, 2013, 2017. Other [63] Handbook of Network Analysis [KONECT project]. Jérôme Kunegis, CoRR, **Publications** abs/1402.5500(v4), 2017. x % ≡ [64] On the Ubiquity of Web Tracking: Insights from a Billion-Page Web Crawl. Sebastian Schelter, Jérôme Kunegis, In review, 2016. [65] Social Networking by Proxy: A Case Study of Catster, Dogster and Hamsterster. X Daniel Dünker, Jérôme Kunegis, CoRR, abs/1501.04527, 2015. [66] Applications of Structural Balance in Signed Social Networks. Jérôme Kunegis,  $\mathbf{x}$ CoRR, abs/1402.6865, 2014. x [67] DecLiNe – Models for Decay of Links in Networks. Julia Preusse, Jérôme Kunegis, Matthias Thimm, Sergej Sizov, CoRR, abs/1403.4415, 2014. [68] Polcovar: Software for Computing the Mean and Variance of Subgraph Counts x 🗱 in Random Graphs. Jérôme Kunegis, CoRR, abs/1402.5835, 2014. [69] On Joint Diagonalisation for Dynamic Network Analysis. Damien Fay, Jérôme Kunegis, Eiko Yoneki, Technical report, University of Cambridge, 2011. [70] The Universal Recommender. Jérôme Kunegis, Alan Said, Winfried Umbrath, 🖈 🗘 White paper, 2009. **Popularization** [71] Binary Fluorine Compounds. Jérôme Kunegis, 2017. [72] How to Pronounce German Vowels. Jérôme Kunegis, 2017. [73] Pronunciation of English Vowels. Jérôme Kunegis, 2015. [74] Taxonomy of  $n \times n$  Matrices. Jérôme Kunegis, 2012. Keynotes and [T1] Cats, Dogs, and Hamsters: The Secret Online Network of Pet Owners, DataBeers **%** ■ **Invited Talks** Brussels, 2017. [T2] Algebraic Graph-theoric Measures of Conflict, Journée Graphes et Systèmes So-**ଲ** ବ୍ୟ ciaux (Seminar on Graphs and Soc. Systems), 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, Int. Workshop on Soc. Netw. Anal. (ARS), 2015. [T5] Network Analysis Tools for Online Communities: The Koblenz Network Collection. Keynote, Workshop on Metrics, Anal. and Tools for Online Community Manag. (MAMA), 2013.

#### Academic **Tutorials**

- [T6] Network Analysis in the Age of Large Network Dataset Collections Challenges, Solutions and Applications. Jérôme Kunegis, Renaud Lambiotte, Int. Conf. on Inf. and Knowl. Manag., 2017.
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- [T7] Web Science in Practice: Web Observatories. Jérôme Kunegis, Steffen Staab, WSTNet Web Sci. Summer Sch., 2016.

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#### Other Talks

[T8] What Is the Difference between a Social and a Hyperlink Network? – How the Type of Network Can Be Determined from the Network Structure Alone, Workshop on Network Comparison, Univ. of Oxford, 2017.



[T9] Measuring the Conflict in a Social Network with Friends and Foes: A Recent Algebraic Approach. Tech. Univ. Berlin, 2017.



[T10] The New KONECT Project at the University of Namur. Univ. of Namur, 2017.



[T11] 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.



[T12] It's Really about Hamsters. Int. Conf. on Weblogs and Soc. Media Sci. Slam, 2016.



[T13] KONECT: The Koblenz Network Collection – Towards a Broad Analysis of Complex Systems. ETH Zürich, 2015.



[T14] Modeling the Evolution of Networks as Shrinking Structural Diversity. Univ. of Koblenz-Landau, 2015.

[T15] Trust in Networks. KoMePol Project, 2013.

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[T16] Observing the Web: The Koblenz Network Collection. Bournemouth Univ., 2013.

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[T17] Eight Formalisms for Defining Graph Models. Univ. of Koblenz-Landau, 2013.

•

[T18] Diversity vs Uniformity: Understanding the Evolution of Large Networks. RO-BUST Project, 2012.

•

[T19] Linguistic Network Analysis with the Koblenz Network Collection. Workshop on Modeling Linguist. Networks, 2012.

- Growth and Decay: Using Machine Learning to Predict the Web's Future, Workshop on Artif. Intell. on the Web, 2012.
- [T21] Models of Like, Dislike, Similarity and Dissimilarity using Split-complex Numbers, Univ. Coll. Dublin, 2012.



- [T22] Why Is Beyoncé More Popular Than Me: Fairness, Diversity and Other Measures of Network Equality. Univ. of Freiburg, 2012.
- [T23] Fairness on the Web: Alternatives to the Power Law. Leibniz-Institut für Sozialwissenschaften, Cologne, 2012.
- [T24] KONECT The Koblenz Network Collection. WSTNet Meeting, 2012.
- [T25] On the Spectral Evolution of Large Networks. Univ. Coll. Cork, 2011.
- [T26] Spectral Analysis of the Vector Space Model (and Explicit Semantic Analysis). Jérôme Kunegis, Thomas Gottron, Univ. of Koblenz-Landau, 2011.
- [T27] On the Spectral Evolution of Large Networks. Fraunhofer IAIS, St. Augustin, 2011.
- [T28] On the Spectral Evolution of Large Networks. Tech. Univ. Berlin, 2011.
- [T29] The Slashdot Zoo: Mining a Social Network with Negative Edges. Data and Knowl. Engineering Research Colloquium, Otto von Guericke Univ. Magdeburg, 2010.
- [T30] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Koblenz-Landau, 2010.

- [T31] The Slashdot Zoo: Mining a Social Network with Negative Edges. Univ. of Hannover, 2010.
- [T32] Kernel Methods. Competence Center for Information Retrieval and Machine Learning (CC IRML) Journal Club, DAI Laboratory, 2008.
- [T33] 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.
- [T34] Research at the DAI Laboratory. 2006.
- [T35] Schach und Computer. Seminar Geschichte der Entwicklung des Computers, Tech. Univ. Berlin, 2005.
- [T36] 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.

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#### **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.
- 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. 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.

#### Volunteering

- WSTNet Web Science Summer School (WWSSS), 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)

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• KONECT Toolbox, network analysis toolbox (Matlab, C99)

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- Polcovar, software for counting patterns in random graphs (Matlab)
- **‡**

Universal Recommender, recommendation library (Java)
BabyChess, chess engine and GUI (C++98)

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• 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.
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- Best Poster Award, Int. Sch. and Conf. on Netw. Sci. (NetSciX), 2016.
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- 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.
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- $\bullet\,$  Student Travel Fellowship Award, SIAM Conf. on Data Min. (SDM), 2010.

• Best Paper Nominee, Industrial Conf. on Data Min. (IndCDM), 2007.

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• 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, A1), 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