

MAYANK KEJRIWAL

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CURRENT POSITION

Research Assistant Professor Industrial and Systems Engineering Viterbi School of Engineering University of Southern California	April 2019-Current
Research Lead Information Sciences Institute Viterbi School of Engineering University of Southern California	April. 2019-Current

EDUCATION

University of Texas at Austin Department of Computer Science M.Sc. and Ph.D., Computer Science Ph.D. thesis: <i>Populating a Linked Data Entity Name System</i> Recipient of SWSA Best Dissertation Award	Aug. 2012-May 2016
University of Illinois at Urbana-Champaign Department of Electrical and Computer Engineering B.Sc. in Computer Engineering, Highest Honors Honors thesis: <i>Machine Learning Techniques in Offline Handwriting Transcription</i>	Aug. 2009-Aug. 2012

CURRENT PROJECTS

Generating Novelty in Open-World Multi-Agent Environments (GNOME) <i>Principal Investigator</i> Amount: 2,966,772\$ Anticipated Period of Performance: Dec. 2019-May 2023 <i>Funded under DARPA Science of Artificial Intelligence and Learning for Open-world Novelty (SAIL-ON) program</i> Key Responsibilities: Developing a domain-independent science of novelty that can be used to characterize novel phenomena at various levels of granularity and specificity in multiple domains, and a domain-specific testbed (platform, protocol and metrics) that can be used to evaluate external novelty-adaptive AI systems being developed for playing stochastic multi-agent board games of strategy (e.g., Monopoly)	Since Dec. 2019
Representation Learning for Product Graphs <i>Principal Investigator</i> Amount: 25,000\$ <i>Funded under Yahoo! Faculty Research Engagement Program (FREP)</i> Key Responsibilities: Researching knowledge graph-based approaches for processing and doing analytics on Web-scale e-commerce datasets, including application areas such as product categorization, representation learning and entity reconciliation	Since Sep. 2019
Multi-modal Open World Grounded Learning and Inference (MOWGLI) <i>Co-Principal Investigator</i> Amount: 9,850,056\$ Anticipated Period of Performance: Jun. 2019-May 2023 <i>Funded under DARPA Machine Common Sense (MCS) program</i> Key Responsibilities: Researching neuro-symbolic techniques and algorithms for enabling machines to understand commonsense situations evaluated using both natural language and visual question-answering stimuli	Since Aug. 2019
Crisis Understanding using Intelligent Systems <i>Principal Investigator</i> Amount: 4650\$ Anticipated Period of Performance: May/Jun. 2020 <i>Funded under USC Undergraduate Research Associates Program (URAP)</i>	Since Jul. 2019

Key Responsibilities: Mentoring undergraduate students in research in a social impact project that applies Artificial Intelligence techniques to deriving actionable insights from social media data during natural disasters and crises

Discovery and Dismantling of Human Trafficking Networks

Since Jan. 2019

Principal Investigator

Amount: 100,000\$

Anticipated Period of Performance: Jan. 2019-Dec. 2020

Funded under Keston Research Project (non-contract)

Key Responsibilities: Building software and systems to enable a highly collaborative (with law enforcement, federal agencies and social and political scientists) endeavor to computationally discover (and dismantle) sex trafficking activity at national and global scales

PAST PROJECTS

THOR: Text-enabled Humanitarian Operations in Real-time

Jun. 2016-Jan. 2020

Principal Investigator

Funded under DARPA Low Resource Languages for Emergent Incidents (LORELEI)

Key Responsibilities: Researching and transitioning robust entity linking, instance matching, clustering and network analysis methods to provide situational awareness to customers in the humanitarian assistance and disaster relief (HADR) domain

ELICIT: A System for Extracting and Organizing Causal Information

Aug. 2017-Jan. 2019

Funded under DARPA Causal Exploration of Complex Operational Environments (CauseEx)

Key Responsibilities: Semi-automatically modeling and discovering causal factors, and performing entity resolution across nodes of a heterogeneous knowledge graph constructed from structured, semi-structured and unstructured data sources.

DSBox: Data Scientist in a Box

Mar. 2017-Jan. 2019

Funded under DARPA Data-driven Discovery of Models (D3M)

Key Responsibilities: Performing research and development on, and building, an automated sequence modeling-based pipeline to minimize data cleaning effort by data scientists in the field.

GAIA: Generating Alternatives for Interpretation and Analysis

Jan. 2018-Aug. 2018

Funded under DARPA Active Interpretation of Disparate Alternatives (AIDA)

Key Responsibilities: Building on expertise in knowledge graphs and Entity Resolution to process, refine, link and reason over outputs of upstream multi-modal information extraction systems.

SAGE: Synergistic Anticipation of Geopolitical Events

Aug. 2017-May 2018

Funded under IARPA Hybrid Forecasting Competition (HFC)

Key Responsibilities: Building an advanced forecasting platform, both for research and actual use, that uses natural language processing and data mining to assist experts and forecasters in making informed predictions about geopolitical events.

DIG: Domain-specific Insight Graphs

Jun. 2016-Apr. 2018

Funded under DARPA MEMEX

Key Responsibilities: Researching and developing robust information extraction, search, link prediction and entity resolution algorithms to assist investigators and law enforcement in complex domains such as human trafficking and securities fraud.

SCHOLARSHIPS, AWARDS AND TRAVEL GRANTS

Copper Black Award for Creative Achievement awarded by the Mensa Foundation	2019
Intellectual Benefits to Society Award awarded by the Mensa Foundation	2019
Red Judge, IBM Watson AI XPrize	2019
Forbes 30 Under 30 Shortlist (Science Category)	2019
Forbes Under 30 Scholar	2018
USC Marshall MBA Admissions Scholarship	2018-2019
THOR featured in DARPA's 60 th anniversary	2018
ISI Publication Award (500\$)	2018
AI2 Key Scientific Challenge Winner (10,000\$)	2018
Semantic Web Science Association Best Dissertation Award	2017
Amazon Cloud Credits for Research Grant	2017
Microsoft Azure for Research Grant	2017
AAAI Doctoral Consortium Travel Award	2015
Microsoft Azure for Research Grant	2014
National Science Foundation Travel Grant	2014

Department Nominee: Microsoft, Google fellowships	2013
Department Travel Grant	2013
MCD Fellowship	2012-2014
Daniel and Carol Dobberpuhl Award	2012
Senior 100 Honorary	2012
Henry O. Koehler Scholarship	2011
Chancellor's Scholar	2010-2012
Edmund J. James Scholar	2009-2012
Dean's List	2009-2012

TEACHING

University of Southern California Research Assistant Professor <i>ISE 599: Special Topics (Applied Predictive Analytics)</i>	Aug. 2019-Dec. 2019
University of Southern California Lecturer in Computer Science <i>CSCI 548: Information Integration</i>	Aug. 2016-Dec. 2016
University of Texas at Austin Teaching Assistant <i>Contemporary Issues in Computer Science (Spring 2014)</i> <i>Automata Theory (Spring 2013)</i> <i>Data Management (Falls 2013, 2012)</i> <i>Artificial Intelligence (Fall 2012)</i>	Aug. 2012-Jun. 2014

EXPERIENCE

Department of Industrial and Systems Engineering, USC Research Assistant Professor <i>Engage in research, mentorship and teaching activities as research faculty in the ISE department</i>	Apr. 2019-Current
Information Sciences Institute, USC Research Lead <i>Lead multiple government funded research projects in ISI's Center on Knowledge Graphs</i>	Apr. 2019-Current
Information Sciences Institute, USC Computer Scientist <i>Conduct research on multiple government-funded projects in ISI's Center on Knowledge Graphs</i>	Jun. 2016-Current
Information Sciences Institute, USC AI Seminar Coordinator <i>Invited experts in AI and organized talks under the Intelligent Systems division at ISI</i>	Jan. 2017-Jan. 2018
Capsenta, Inc. Semantic Web Consultant <i>Worked on integrating advanced ontology matching solutions in the company's current products</i>	May 2016-Jun. 2016
University of Texas at Austin Graduate Research Assistant <i>Conducted research in RiBS group led by Daniel P. Miranker</i>	Jun. 2014-May 2016
CareerBuilder LLC, Norcross, Georgia Data Scientist Intern <i>Worked in the R&D team on the Recruitment Edge and Company Normalization products</i>	May 2015-Aug. 2015
Rackspace, the Open Cloud Company, San Antonio, Texas Summer Intern <i>Worked on the Big Data team helping with a new Hadoop-based product roll-out</i>	May 2013-Jul. 2013

National Center for Supercomputing Applications, Urbana, Illinois

Undergraduate Research Intern

May 2011-Aug. 2011

Developed scalable machine learning techniques to automate digital handwriting transcription of terabyte-level US census data

University of Illinois at Urbana-Champaign

Camp Counselor

May 2010-Aug. 2010

Designed STEM exercises for high-school students, and supervised them thereof

University of Illinois at Urbana-Champaign

Freshman Research Intern

May 2010-Aug. 2010

Helped to automate biomedical image processing tasks using the ImageJ software tool

SKILLS

- **Specialties** – Information Integration, Natural Language Processing, Semantic Web, Data Mining, Machine Learning
- **Languages**– Python , Java, C/C++, MATLAB, SQL, SPARQL, Latex
- **Systems, Tools and Packages**– PyCharm, Amazon Web Services, SciKit Learn, t-SNE, NetworkX, TensorFlow, Microsoft Azure, Eclipse IDE, Weka, LibSVM, SecondString, FEBRL, Lucene, Mallet

LANGUAGES

- **Native** – English, Hindi
- **Fluent** – Bengali

PROFESSIONAL SERVICE

- **Program Committee Member**, In-use track, International Semantic Web Conference (ISWC), 2020
- **Program Committee Member**, 2nd Conference on Automated Knowledge Base Construction (AKBC), 2020
- **Program Committee Member**, Workshop on Deep Learning for Knowledge Graphs and Semantic Technologies, to be held at the Extended Semantic Web Conference (ESWC) in 2020
- **Program Committee Member**, IEEE International Conference on Semantic Computing (ICSC), 2020
- **Program Committee Member**, Extended Semantic Web Conference (ESWC), 2020
- **Co-Track Chair**, Machine Learning Track, Extended Semantic Web Conference (ESWC), 2020
- **Program Committee Member**, AAAI Conference (Demonstrations Track), 2020
- **Program Committee Member**, AAAI Conference (Research Track), 2020
- **Reviewer**, SoftwareX, 2019
- **General Chair**, ACM Knowledge Capture (K-CAP) Conference, 2019
- **Organizer**, AI for Social Good (Humanitarian Relief and Development Track) at AAAI Fall Symposium, 2019
- **Program Committee Member**, New Trends in Representation Learning with Knowledge Graphs (KGRL), ECML PKDD Workshop, 2019
- **Reviewer**, Expert Systems with Applications (Elsevier), 2019
- **Program Committee Member**, The Ninth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS). 2019
- **Program Committee Member**, The 13th IEEE International Conference on Semantic Computing (ICSC), 2020
- **Program Committee Member**, 6th ICML Workshop on Automated Machine Learning (AutoML 2019)
- **Program Committee Member**, Workshop on Knowledge Graph Representation Learning for Flexible Reasoning co-held with ECML-PKDD, 2019
- **Reviewer**, Data Technologies and Applications, 2019
- **Reviewer**, ACM Computing Surveys, 2019
- **Program Committee Member**, International Semantic Web Conference (Research Track), 2019
- **Session Chair**, AAAI Conference (AI and the Web 2 Session), Jan. 29 2019
- **Session Chair**, AAAI Conference (Applications and the Web 1 Session), Jan. 29 2019
- **Session Chair**, AAAI Conference (Applications and the Web 2 Session), Jan. 30 2019
- **Program Committee Member**, Workshop on Semantic Web for Social Good (SWSG) co-held with the International Semantic Web Conference (ISWC), 2019
- **Invited Member**, MIT Technology Review Global Panel, 2019
- **Reviewer**, Data and Knowledge Engineering (Elsevier), 2019
- **Reviewer**, Information Systems (Elsevier), 2019
- **Reviewer**, Applied Sciences Journal (MDPI), 2019
- **Program Committee Member**, 7th International Conference on Building and Exploring Web Based Environments (WEB 2019)
- **Program Committee Member**, Extended Semantic Web Conference (ESWC), 2019
- **Reviewer**, 1st International Conference on Automated Knowledge Base Construction, 2019

- **Program Committee Member**, 1st International Workshop on Intelligence & Interaction in Knowledge Engineering (IIKE) held in conjunction with the 13th IEEE International Conference on Semantic Computing, 2019
- **Reviewer**, CHI 2019
- **Program Committee Member**, The 13th IEEE International Conference on Semantic Computing (ICSC), 2019
- **Program Committee Member**, AAAI Conference (Demonstration Track), 2019
- **Program Committee Member**, AAAI Conference (Research Track), 2019
- **Program Committee Member**, The ACM Web Conference (Web Mining and Content Analysis Track), 2019
- **Panelist**, International Workshop on Semantic Web for Social Good, ISWC 2018
- **Jury Member**, International Semantic Web Conference: Posters and Demos, 2018
- **Student Voice Champion**, University of London, 2018-2019
- **Editorial Board Member**, Special Issue on Knowledge Graphs, international Semantic Web Journal, 2018
- **Reviewer**, Applied Sciences Journal (MDPI), 2018
- **Reviewer**, IEEE Transactions on Knowledge and Data Engineering (TKDE), 2018
- **Reviewer**, ACM Transactions on the Web, 2018
- **Reviewer**, Semantic Web Journal, 2018
- **Reviewer**, Technologies, 2018
- **Reviewer**, Information, 2018
- **Reviewer**, Scientific Programming, 2018
- **Reviewer**, Machine Learning and Knowledge Extraction Journal, 2018
- **Program Committee Member**, International Workshop on Semantic Web for Social Good, ISWC 2018
- **FigShare Ambassador**, 2018
- **Program Committee Member (Research; Posters and demos)**, International Semantic Web Conference (ISWC), 2018
- **Co-Chair**, Workshop on Deep Learning for Knowledge Graphs and Semantic Technologies, to be held at the Extended Semantic Web Conference (ESWC) in Crete, Greece 2018
- **Guest Editorial Board**, Special Issue on Representation Learning for the Semantic Web, Journal of Web Semantics (2018)
- **Co-Chair**, BigNet workshop, to be held at the ACM The Web Conference (formerly known as ACM WWW) in Lyon, France 2018
- **Guest Editorial Board**, Special Issue on Semantic Deep Learning, Semantic Web Journal (2018)
- **Program Committee Member**, 1st Workshop on Knowledge Base Construction, Reasoning and Mining (KBCOM), co-held with ACM WSDM Conference 2018
- **Judge**, Virtual Poster Showcase at the American Geophysical Union Fall Meeting, 2017
- **Reviewer**, Semantic Web Journal (Nov. 2017)
- **Reviewer**, ACM Transactions on the Web (Nov. 2017)
- **Program Committee Member**, ACM The Web Conference (TheWebConf; former ACM World Wide Web), 2018
- **Reviewer**, IEEE Transactions on Knowledge and Data Engineering (TKDE), 2017
- **Co-Chair**, Hybrid Statistical Semantic Understanding and Emerging Semantics Workshop (HSSUES) half-day workshop, to be held at International Semantic Web Conference (ISWC), 2017
- **Program Committee Member**, Data-driven Discovery of Models (D3M) half-day workshop, to be held at International Conference on Data Mining (ICDM), 2017
- **Program Committee Member**, Broadening Participation in Data Mining (BPDm) workshop, to be held at KDD 2017
- **Program Committee Member (Research; Posters and demos)**, International Semantic Web Conference (ISWC), 2017
- **Sub-reviewer**, ACM World Wide Web Conference (WWW), 2017
- **Program Committee Member (Posters and demos)**, International Semantic Web Conference (ISWC), 2016
- **Program Committee Member**, International Joint Conference on Artificial Intelligence (IJCAI), 2016
- **Reviewer**, ACM Journal of Data and Information Quality (JDIQ), 2016
- **Sub-reviewer**, International Joint Conference on Artificial Intelligence (IJCAI), 2015
- **Sub-reviewer**, Very Large Databases (VLDB), 2013

OUTREACH AND ACTIVITIES

- **MIT Operations Simulation Competition**, USC Team MNXP Member (April 2019), [Website](#)
- **Everyone's Business Global Case Competition on Gender Equity**, USC Team Ruth Bader Ginsberg Member (March 2019), [Website](#)
- **AI Topics for K-12**, Editor-in-chief (March 2017-Current), [Website](#)
- **AAAI Connections**, Volunteer (February 2017)
- **Present your research to a 12-year old**, Invited speaker at multiple venues (December 2015-May 2016)
- **Engineering Open House**, University of Illinois at Urbana-Champaign (2010)

HONORS AND INTELLIGENCE SOCIETIES

- **Phi Kappa Phi**
- **Tau Beta Pi**
- **Alpha Lambda Delta**

- Phi Eta Sigma
- Mensa
- Intertel
- Triple Nine Society

HACKATHONS

- **Classifying Clinically Actionable Genetic Mutations**, NIPS Competition (2017)
- **End Human Trafficking Hackathon**, Cornell (2016); featured in [NY Daily News](#)
- **Kaggle**, Web competitions (2014-2016)
- **CareerBuilder Summer Hackathon**, CareerBuilder (2015)
- **dataHackUT**, University of Texas at Austin (2014)

PROFESSIONAL SOCIETIES

- Association for the Advancement of Artificial Intelligence (AAAI)
- American Association for the Advancement of Science (AAAS)
- Association for Computing Machinery (ACM)
- Institute of Electrical and Electronics Engineers (IEEE)
- Society for Industrial and Applied Mathematics (SIAM)

ALUMNI NETWORKS

- London School of Economics, Los Angeles Chapter (2019)
- University of Southern California, Marshall School of Business (2018)
- Heidelberg Laureate Forum/German Scholars Organization e.V. (2017)
- University of Texas (2016)
- University of London (2015)
- University of Illinois (2012)

INVITED PARTICIPANT

- **Concordia Summit (2019)**, co-held with the UN General Assembly in New York City: Roundtable on using Artificial intelligence for combating online sexual abuse of children
- **National Science Foundation Data Science Workshop (2015)**, held in Seattle: NSF-funded workshop attended by Ph.D. level data scientists after a rigorous national selection process
- **Heidelberg Laureate Forum (2015)**, held in Heidelberg, Germany: Invitation-only forum for 200 globally selected Math and CS students

RESEARCH MENTOR

- Shilpa Thomas (GNOME)
- Akarsh Dang (THOR)
- Jiayuan Ding (DIG, Commonsense Reasoning)
- Ravi Kiran Selvam (THOR; e-commerce knowledge graphs)
- Minda Hu (Social media analytics)
- Peilin Zhou (THOR)
- Shixiang Zhu (THOR; CauseEx)
- Xin Huang (THOR; GAIA)
- Xuefeng Yan (THOR; Knowledge Graph Embeddings Project)
- Jianheng Hou (THOR)
- Shuo Zhang (THOR; Fake News Project)
- Yao Gu (THOR; Human Trafficking Project)
- Mozhddeh Gheini (GAIA)
- Fan Pan (THOR)
- Zihao Zhai (THOR)
- Haotian Zhang (THOR)
- Rahul Kapoor (DIG)
- Yixiang Yao (Record Linkage Toolkit)
- Pulkit Manocha (Record Linkage Toolkit)
- Jing Peng (THOR)
- Qiaozhi Song (THOR)
- Daye Nam (THOR; schema.org)

- Runqi Shao (DIG)
- I-Hui Huang (DSBox)
- Fanghao Luo (DSBox)
- Pratik Kabara (THOR)

TUTORIALS, CASE STUDIES AND DEMOS

Tutorial: AI, Networks and Society Mayank Kejriwal Invited Annenberg Micro-seminar, University of Southern California	Sep. 2019
Demo: SAVIZ: Interactive Exploration and Visualization of Social Media over Crisis Data Mayank Kejriwal and Peilin Zhou The IEEE/ACM ASONAM Conference in Vancouver, Canada 2019	Aug. 2019
Demo: Expert-Guided Entity Extraction using Expressive Rules Mayank Kejriwal , Runqi Shao and Pedro Szekely The ACM SIGIR Conference in Paris, France 2019	Jul. 2019
Case Study: Reusing data and building upon it Mayank Kejriwal , Megan Hardeman and Team Figshare Figshare case study accessed online	Aug. 2018
Demo: THOR: Text-enabled Humanitarian Operations in Real-time Mayank Kejriwal , Daniel Gilley, Pedro Szekely, Jill Crisman The ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018	Apr. 2018
Tutorial: Social Media Analysis for Situation Awareness during Crises Gregoire Burel, Mayank Kejriwal , Prashant Khare, Pedro Szekely Tutorial at the ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018	Apr. 2018
Case Study: Technology-assisted Investigative Search: A Case Study from an Illicit Domain Mayank Kejriwal , Pedro Szekely Case Study at the ACM CHI Conference on Human Factors in Computing Systems in Montreal, Canada 2018	Apr. 2018
Demo: Unsupervised Hashtag Retrieval and Visualization for Crisis Informatics Yao Gu, Mayank Kejriwal Workshop on Social Web in Emergency and Disaster Management (SWDM), co-held with the ACM Web Search and Data Mining (WSDM) Conference in Los Angeles, California	Feb. 2018
Tutorial: Knowledge Graph Construction from Web Corpora Mayank Kejriwal , Craig Knoblock and Pedro Szekely AAAI Conference, held in New Orleans	Feb. 2018
Demo: Constructing Domain-specific Search Engines with No Programming Mayank Kejriwal , Pedro Szekely AAAI Conference, held in New Orleans Nominated for Best Demo	Feb. 2018
Demo: A Semantic Search Engine for Investigating Human Trafficking Mayank Kejriwal , Pedro Szekely International Semantic Web Conference (ISWC), held in Vienna, Austria	Oct. 2017
Tutorial: Constructing Domain-specific Knowledge Graphs (KGC) Mayank Kejriwal , Craig Knoblock, and Pedro Szekely Full-day tutorial at International Semantic Web Conference (ISWC), 2017, held in Vienna, Austria	Oct. 2017
Tutorial: Data Mining in Unusual Domains with Information-rich Knowledge Graph Construction, Inference and Search Mayank Kejriwal and Pedro Szekely Conventional Tutorial at KDD, 2017, held in Halifax, Canada	Aug. 2017

Tutorial: Information Integration

Jul. 2017

Mayank Kejriwal

Tutorial at IS-GEO Summer Institute, 2017 held in Austin, TX

BOOKS AND BOOK CHAPTERS

Knowledge Graphs: Theory, Techniques and Applications

2020

Mayank Kejriwal, Craig Knoblock, and Pedro Szekely

MIT Press

Chapter 33: Domain-specific Search Engines for Investigating Human Trafficking and Other Illicit Activities

Dec. 2019

Mayank Kejriwal

Encyclopedia of Criminal Activities and the Deep Web

ISBN13: 9781522597155

DOI: 10.4018/978-1-5225-9715-5

[Encyclopedia Link](#)

Domain-specific Knowledge Graph Construction

2019

Mayank Kejriwal

Springer Brief

[Book Purchase Link](#)

Proceedings of the 2018 International Workshop on Learning Representations for Big Networks (BigNet@WWW2018) co-located with the International World Wide Web Conference (WWW 2018)

2018

Editors: Jie Tang (Tsinghua University, China), Michalis Vazirgiannis (Ecole Polytechnique, France), Yuxiao Dong (Microsoft Research, Redmond, CA), Fragkiskos D. Malliaros (CentraleSupélec, France), Michael Cochez (Fraunhofer FIT, Germany), **Mayank Kejriwal (University of Southern California, USA)**, Achim Rettinger (Karlsruhe Institute of Technology, Germany)

ISBN: 978-1-4503-5640-4

Archival Link: <https://dl.acm.org/citation.cfm?id=3192293>

Proceedings of the First Workshop on Deep Learning for Knowledge Graphs and Semantic Technologies (DL4KGS)

2018

co-located with the 15th Extended Semantic Web Conference (ESWC 2018)

Editors (Alphabetical Order): Michael Cochez (Fraunhofer Institute for Applied Information Technology, Germany), Thierry Declerck (DFKI GmbH, Germany), Gerard de Melo (Rutgers University, USA), Luis Espinosa Anke (Cardiff University, UK), Besnik Fetahu (L3S Research Center, Germany), Dagmar Gromann (International Center for Computational Logic, Germany), **Mayank Kejriwal (University of Southern California, USA)**, Maria Koutlaki (FIZ-Karlsruhe, Germany), Freddy Lecue (Accenture, Ireland), Enrico Palumbo (ISMB, Italy), Harald Sack (FIZ-Karlsruhe, Germany)

URN: urn:nbn:de:0074-2106-7

Archival Link: <http://ceur-ws.org/Vol-2106>

Joint Proceedings of the International Workshops on Hybrid Statistical Semantic Understanding and Emerging Semantics, and Semantic Statistics co-located with 16th International Semantic Web Conference (ISWC 2017)

2017

Editors (Alphabetical Order): Sarven Capadisli (University of Bonn, Germany), Franck Cotton (INSEE, France), Xin Luna Dong (Amazon, USA), Ramanathan V. Guha (schema.org, USA), Armin Haller (ANU, Australia), Pascal Hitzler (Wright State University, USA), Evangelos Kalampokis (University of Macedonia, Greece), **Mayank Kejriwal (University of Southern California, USA)**, Freddy Lecue (Accenture Technology Labs, Ireland), D. Sivakumar (Google, USA), Pedro Szekely (University of Southern California, USA), Raphael Troncy (EURECOM, France) and Michael Witbrock (IBM, USA)

URN: urn:nbn:de:0074-1923-2

Archival Link: <http://ceur-ws.org/Vol-1923/>

Populating a Linked Data Entity Name System: A Big Data Solution for Unsupervised Instance Matching

2017

Mayank Kejriwal

IOS Press, Studies in the Semantic Web Series

ISBN: 978-3-89838-717-0 2017

PEER-REVIEWED PUBLICATIONS

Co-LOD: Continuous Space Linked Open Data

Oct. 2019

Outrageous ideas track

Winner of Blue Sky Ideas award

Mayank Kejriwal, Pedro Szekely

The 2019 International Semantic Web Conference, held in Auckland, New Zealand

- Concept Drift in Bias and Sensationalism Detection: An Experimental Study* **Aug. 2019**
Multi-disciplinary track
 Shuo Zhang, **Mayank Kejriwal**
 The 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, held in Vancouver, Canada
- Low-supervision urgency detection and transfer in short crisis messages* **Aug. 2019**
Mayank Kejriwal, Peilin Zhou
 The 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, held in Vancouver, Canada
- Network-theoretic information extraction quality assessment in the human trafficking domain* **Jul. 2019**
Mayank Kejriwal, Rahul Kapoor
 Applied Network Science, Elsevier
- Unsupervised Product Entity Resolution using Graph Representation Learning* **Jul. 2019**
 Mozdeh Gheini, **Mayank Kejriwal**
 The ACM 2019 SIGIR Workshop on eCommerce, held in Paris, France
- A Pipeline for Rapid Post-Crisis Twitter Data Acquisition, Filtering and Visualization* **Apr. 2019**
Mayank Kejriwal, Yao Gu
 MDPI Technologies, Special Issue on Multimedia and Cross-modal Retrieval
- myDIG: Personalized Illicit Domain-Specific Knowledge Discovery with No Programming* **Mar. 2019**
Mayank Kejriwal, Pedro Szekely
 Future Internet
- GAIA-A Multi-media Multi-lingual Knowledge Extraction and Hypothesis Generation System* **Nov. 2018**
 Tongtao Zhang, Ananya Subburathinam, Ge Shi, Lifu Huang, Di Lu, Xiaoman Pan, Manling Li, Boliang Zhang, Qingyun Wang, Spencer Whitehead, Heng Ji, Alireza Zareian, Hassan Akbari, Brian Chen, Ruiqi Zhong, Steven Shao, Emily Allaway, Shih-Fu Chang, Kathleen McKeown, Dongyu Li, Xin Huang, Kexuan Sun, Xujun Peng, Ryan Gabbard, Marjorie Freedman, Mayank Kejriwal, Ram Nevatia, Pedro Szekely, T.K. Satish Kumar, Ali Sadeghian, Giacomo Bergami, Sourav Dutta, Miguel Rodriguez, Daisy Zhe Wang
 Text Analysis Conference (TAC) KBP track, 2018
- Structured Event Entity Resolution in Humanitarian Domains* **Oct. 2018**
Mayank Kejriwal, Jing Peng, Haotian Zhang and Pedro Szekely
 International Semantic Web Conference (Research Track), held in Monterrey, California
- P4ML: A Phased Performance-Based Pipeline Planner for Automated Machine Learning* **Jul. 2018**
 Yolanda Gil, Ke-Thia Yao, Varun Ratnakar, Daniel Garijo, Greg Ver Steeg, Pedro Szekely, Robert Brekelmans, **Mayank Kejriwal**, Fanghao Luo and I-Hui Huang
 AutoML Workshop 2018 at the International Conference on Machine Learning (ICML) in Stockholm, Sweden
- How do Organizations Publish Semantic Markup? Three Case Studies Using Public Schema.org Crawls* **Jun. 2018**
 Daye Nam, **Mayank Kejriwal**
 IEEE Computer
- Domain-specific Insight Graphs* **Apr. 2018**
 Pedro Szekely, **Mayank Kejriwal**
 International Project track paper at the ACM Web Conference (formerly known as ACM WWW) in Lyon, France 2018
- A Pipeline for Post-Crisis Twitter Data Acquisition* **Feb. 2018**
Mayank Kejriwal, Yao Gu
 Workshop on Social Web in Emergency and Disaster Management (SWDM), co-held with the ACM Web Search and Data Mining (WSDM) Conference in Los Angeles, California
- Investigative Knowledge Discovery for Combating Illicit Activities* **Feb. 2018**
Mayank Kejriwal, Pedro Szekely, Craig Knoblock
 IEEE Intelligent Systems
- Always Lurking: Understanding and Mitigating Bias in Online Human Trafficking Detection* **Feb. 2018**
 Kyle Hundman, Thamme Gowda, **Mayank Kejriwal** and Benedikt Boecking

AAAI/ACM Conference on AI, Ethics and Society (AIES), 2018, held in New Orleans, Louisiana

FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining **Dec. 2017**
Mayank Kejriwal, Jiayuan Ding, Runqi Shao, Anoop Kumar and Pedro Szekely
 Workshop on *Learning with Limited Labeled Data* (LLD) at NIPS 2017, held in Long Beach, California

Knowledge Graphs for Social Good: An Entity-centric Search Engine for the Human Trafficking Domain **Nov. 2017**
Mayank Kejriwal, Pedro Szekely
 IEEE Transactions on Big Data, Special Call on Knowledge Graphs

Neural Embeddings for Populated Geonames Locations **Oct. 2017**
Mayank Kejriwal, Pedro Szekely
 International Semantic Web Conference (Resource Track), held in Vienna, Austria

An Investigative Search Engine for the Human Trafficking Domain **Oct. 2017**
Mayank Kejriwal, Pedro Szekely
 International Semantic Web Conference (In-Use Track), held in Vienna, Austria

Scalable Generation of Type Embeddings using the ABox **Aug. 2017**
Mayank Kejriwal, Pedro Szekely
 Open Journal of Semantic Web

Adaptive Candidate Generation for Scalable Edge-discovery Tasks on Data Graphs **Aug. 2017**
Mayank Kejriwal
 MLG Workshop at ACM KDD, 2017, held in Halifax, Nova Scotia, Canada

Predicting Role Relevance with Minimal Domain Expertise in a Financial Domain **May 2017**
Mayank Kejriwal
 DSMM Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages **May 2017**
 Rahul Kapoor, **Mayank Kejriwal**, Pedro Szekely
 GeoRich Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

Supervised Typing of Big Graphs using Semantic Embeddings **May 2017**
Mayank Kejriwal, Pedro Szekely
 Semantic Big Data (SBD) Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

Information Extraction in Illicit Domains **Apr. 2017**
Mayank Kejriwal, Pedro Szekely
 ACM World Wide Web Conference, 2017, held in Perth, Australia

Local, Domain-independent Heuristics for the FEIII Challenge: Lessons and Observations **Jun. 2016**
Mayank Kejriwal, Daniel P. Miranker
 DSMM Workshop at ACM SIGMOD, 2016, held in San Francisco, California

A Pipeline for Extracting and Deduplicating Domain-Specific Knowledge Bases **Oct. 2015**
Mayank Kejriwal, Qiaoling Liu, Ferosh Jacob and Faizan Javed
 Industry track in the IEEE International Conference on Big Data, held in Santa Clara, California

Decision-making Bias in Instance Matching Model Selection **Oct. 2015**
Mayank Kejriwal, Daniel P. Miranker
 The 14th International Semantic Web Conference, held in Bethlehem, Pennsylvania

An Unsupervised Instance Matcher for Schema-free RDF Data **Jul. 2015**
Mayank Kejriwal, Daniel P. Miranker
 The Journal of Web Semantics

Sorted Neighborhood for Schema-free RDF Data **May 2015**
Mayank Kejriwal, Daniel P. Miranker

Winner of best paper award

The 4th Knowledge Discovery and Data Mining meets Linked Open Data workshop,
The 12th European Semantic Web Conference, held in Portoroz, Slovenia

Semi-supervised Instance Matching using Boosted Classifiers

May 2015

Mayank Kejriwal, Daniel P. Miranker

The 12th European Semantic Web Conference, held in Portoroz, Slovenia

Entity Resolution in a Big Data Framework

Jan. 2015

Mayank Kejriwal

Doctoral consortium, the 29th Conference on Artificial Intelligence (AAAI), held in Austin, TX

Populating Entity Name Systems for Big Data Integration

Oct. 2014

Mayank Kejriwal

The 13th International Semantic Web Conference, held in Riva Del Garda, Italy

A Two-Step Blocking Scheme Learner for Scalable Link Discovery

Oct. 2014

Mayank Kejriwal and Daniel P. Miranker

The 9th International Workshop on Ontology Matching at the 13th International Semantic Web Conference, held in Riva Del Garda, Italy

Schema Matching over Relations, Attributes and Data Values

Jul. 2014

Aibo Tian, **Mayank Kejriwal** and Daniel P. Miranker

The 26th International Conference on Scientific and Statistical Database Management, held in Aalborg, Denmark

An Unsupervised Algorithm for Learning Blocking Schemes

Dec. 2013

Mayank Kejriwal and Daniel P. Miranker

The 13th IEEE International Conference on Data Mining, held in Dallas, Texas

Extended Scaled Neural Predictor for Improved Branch Prediction

Aug. 2013

Zihao Zhou, **Mayank Kejriwal** and Risto Miikkulainen

The IEEE International Conference on Neural Networks, held in Dallas, Texas

A Framework to Access Handwritten Information within Large Digitized Paper Collections

Oct. 2012

Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry

The 8th IEEE International Conference on eScience, held in Chicago, Illinois

Digitization and search: A non-traditional use of HPC

Oct. 2012

Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry

The 8th IEEE International Conference on eScience, held in Chicago, Illinois

ABSTRACTS, POSTERS, NEWSLETTERS AND PRESS

Crisis Management: Using Artificial Intelligence to help save lives

Dec. 2019

Article in *Research Outreach*, Issue 111

[Article Link](#)

Featured Post on Computing Community Consortium (CCC) Website

Nov. 2019

Co-LOD: Continuous Space Linked Open Data

[Article Link](#)

Computing Community Consortium (CCC) Blog

Nov. 2019

Great Innovative Idea: Co-LOD: Continuous Space Linked Open Data

Post by Helen Wright

[Post Link](#)

Interview

Oct. 2019

365 Data Science

[Interview Link](#)

<i>Featured Interview</i> ISI quarterly newsletter	Aug. 2019
<i>Measuring without labels: a different approach to information extraction</i> SpringerOpen invited blog post Article Link	Jul. 2019
<i>Mayank Kejriwal, 2019 Copper Black Award winner</i> Press release by Mensa Foundation Article Link	Jun. 2019
<i>Ep 50: Artificial Intelligence – Fighting Human Trafficking</i> Folksalert podcast episode featuring Mayank Kejriwal Podcast Link	Apr. 2019
<i>myDIG: A system for building domain-specific search engines</i> Contributed article to encyclopedia.pub Entry Link	Mar. 2019
<i>Let's embed everything!</i> Featured post on Open Data Science Article Link	Feb. 2019
<i>Video Interview on AI for Social Good</i> Pioneer Ventures: AI Frontiers Video Link	Nov. 2018
<i>Projects featured in SoCal DB Day talk</i> Talk by Shahram Ghandeharizadeh (USC) SoCal DB 2018 Link	Oct. 2018
<i>Technology for Good: Fighting Human Trafficking with Artificial Intelligence</i> Invited piece written by Mayank Kejriwal IVY Magazine Article Link	Aug. 2018
<i>Making Waves - ONDA News</i> Featured on Patron Spotlight	Jul. 2018
<i>Fighting Human Traffickers</i> Press feature written by Lori Cameron IEEE Intelligent Systems Article Link	Jun. 2018
<i>Building Knowledge Graphs for Social Good</i> USC Center for Artificial intelligence in Society Seminar Summary by Nicole Wilson Summary Link	Apr. 2018
<i>Breaking the Cycle of Victimization</i> Press feature written by Marc Ballon USC Viterbi Magazine Article Link	Apr. 2018
<i>Always Lurking: Understanding and Mitigating Bias in Online Human Trafficking Detection</i> Kyle Hundman, Thamme Gowda, Mayank Kejriwal and Benedikt Boecking Poster presented at AAAI/ACM Conference on AI, Ethics and Society (AIES), 2018, held in New Orleans, Louisiana	Feb. 2018
<i>FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining</i> Mayank Kejriwal , Jiayuan Ding, Runqi Shao, Anoop Kumar and Pedro Szekely	Dec. 2017

Poster in Workshop on *Learning with Limited Labeled Data* (LLD) at NIPS 2017, held in Long Beach, California

ISI press release on winning best dissertation award

Aug. 2017

[Article Link](#)

Semi-automatic Data Integration using Karma

Dec. 2017

Mayank Kejriwal, Daniel Garijo, Yolanda Gil, Daniel Hardesty Lewis, Perry Ivan Quinto Houser, Craig Knoblock, Scott Dale Peckham, Deana Pennington, Suzanne Pierce, Zachary Stanko

Abstract in American Geophysical Union (AGU) Fall 2017 meeting, New Orleans

Populating a Linked Data Entity Name System

Jun. 2017

Mayank Kejriwal

Dissertation abstract in AI Matters

Authored piece on Semantic Web published on the AI Topics website

Apr. 2017

[Article Link](#)

Authored piece on Games and AI published on the AI Topics website

Apr. 2017

[Article Link](#)

End Human Trafficking Hackathon

Oct. 2016

Hackathon was featured in [NY Daily News](#); served as mentor to students

The Summer of Data Science

Oct. 2015

Quoted in blog post by Kristin Tolle, Director of Data Science at Microsoft Research

Populating a Linked Data Entity Name System

Aug. 2015

Mayank Kejriwal, Daniel P. Miranker

Poster at the Heidelberg Laureate Forum, held in Heidelberg, Germany

Unsupervised Instance Matching on Schema-free Linked Data

Aug. 2015

Mayank Kejriwal, Daniel P. Miranker

Poster at the National Science Foundation Data Science Workshop, held in Seattle, Washington

Minimally Supervised Instance Matching: An Alternate Approach

May 2015

Mayank Kejriwal, Daniel P. Miranker

Poster and abstract at the 12th European Semantic Web Conference, held in Portoroz, Slovenia

The Math Behind...The Web of Linked Data

Mar. 2015

Mayank Kejriwal

Poster for the *SIAM: Math Matters, Apply It!* program

A Sorted Neighborhood Workflow for the Semantic Web

Jan. 2015

Mayank Kejriwal and Daniel P. Miranker

Poster and abstract at the 29th Conference on Artificial Intelligence (AAAI)

On Linking Heterogeneous Dataset Collections

Oct. 2014

Mayank Kejriwal and Daniel P. Miranker

Poster and abstract at the 13th International Semantic Web Conference, held in Riva Del Garda, Italy

Populating Entity Name Systems for Big Data Integration

Oct. 2014

Mayank Kejriwal and Daniel P. Miranker

Doctoral Consortium Poster at the 13th International Semantic Web Conference, held in Riva Del Garda, Italy

An Unsupervised Algorithm for Learning Blocking Schemes

Dec. 2013

Mayank Kejriwal and Daniel P. Miranker

Poster at the 13th IEEE International Conference on Data Mining, held in Dallas, Texas

Extended Scaled Neural Predictor for Improved Branch Prediction

Aug. 2013

Zihao Zhou, **Mayank Kejriwal** and Risto Miikkulainen

Poster at the IEEE International Conference on Neural Networks, held in Dallas, Texas

Digitization and Search: A Non-Traditional Use of HPC

Oct. 2012

Liana Diesendruck, Luigi Marini, Rob Kooper, **Mayank Kejriwal** and Kenton McHenry

Poster and abstract at the 8th IEEE International Conference on eScience, held in Chicago, Illinois

Toward Free and Searchable Historical Census Images

Sep. 2011

Kenton McHenry, Luigi Marini, **Mayank Kejriwal**, Rob Kooper and Peter Bajcsy

- Published as an article in the Electronic Imaging & Signal Processing section by the International Society for Optics and Photonics
[Article Link](#)
- Published as a technical article in infoDOCKET
[Article Link](#)

TECHNICAL REPORTS

A Pipeline for Post-Crisis Twitter Data Acquisition

Jan. 2018

Mayank Kejriwal, Yao Gu

Technical Report (arXiv: 1801.05881)

Unsupervised Hashtag Retrieval and Visualization for Crisis Informatics

Jan. 2018

Yao Gu, **Mayank Kejriwal**

Technical Report (arXiv: 1801.05906)

FlagIt: A System for Minimally Supervised Human Trafficking Indicator Mining

Dec. 2017

Mayank Kejriwal, Jiayuan Ding, Runqi Shao, Anoop Kumar and Pedro Szekely

Technical Report (arXiv: 1712.03086)

Predicting Role Relevance with Minimal Domain Expertise in a Financial Domain

Apr. 2017

Mayank Kejriwal

Technical Report (arXiv:1704.05571)

Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages

Apr. 2017

Rahul Kapoor, **Mayank Kejriwal** and Pedro Szekely

Technical Report (arXiv:1704.05569)

Supervised Typing of Big Graphs using Semantic Embeddings

Mar. 2017

Mayank Kejriwal and Pedro Szekely

Technical Report (arXiv:1703.07805)

Information Extraction in Illicit Domains

Mar. 2017

Mayank Kejriwal and Pedro Szekely

Technical Report (arXiv:1703.03097)

Experience: Type alignment on DBpedia and Freebase

Aug. 2016

Mayank Kejriwal and Daniel P. Miranker

Technical Report (arXiv:1608.04442)

Self-contained NoSQL Resources for Cross-Domain RDF

Aug. 2016

Mayank Kejriwal and Daniel P. Miranker

Technical Report (arXiv:1608.04437)

On the Complexity of Sorted Neighborhood

Jan. 2015

Mayank Kejriwal and Daniel P. Miranker

Technical Report (arXiv:1501.01696)

A DNF Blocking Scheme Learner for Heterogeneous Datasets

Jan. 2015

Mayank Kejriwal and Daniel P. Miranker

Technical Report (arXiv:1501.01694)

N-Way Heterogeneous Blocking Feb. 2014
Mayank Kejriwal and Daniel P. Miranker
 Regular Technical Report (TR-14-06), University of Texas at Austin

TALKS

Using Artificial Intelligence to assist law enforcement to crack down on human trafficking Feb. 2020
 Keynote talk at the Telesign and Data Skeptic Meetup in Marina del Rey, California

Fighting Child Sex Trafficking with Artificial Intelligence Jan. 2020
 Keston talk at the ISI institute-wide retreat in Redondo Beach, California

Fighting Human Trafficking with Technology Dec. 2019
 Invited talk at the National University for Juridical Sciences (NUJS) in Kolkata, India

Knowledge Graphs: An Accessible and Applied Overview Nov. 2019
 Invited talk at Purdue University in West Lafayette, Indiana

EMI: Embed, Measure and Iterate Nov. 2019
 Invited talk at Open Data Science Conference (ODSC-West) in San Francisco, California

Artificial Intelligence Nov. 2019
 Invited outreach talk at the California Institution for Men in Chino, California

Is a Knowledge Graph right for me? Oct. 2019
 Invited talk at the IDEAS Southern California Conference held in Los Angeles, California

AI, Networks and Society Sep. 2019
 Invited Micro-seminar at the USC Annenberg School of Communication

Executive Briefing: An Age of Embeddings Sep. 2019
 Invited talk at O'Reilly AI Conference in San Jose, California

Low-supervision urgency detection and transfer in short crisis messages Aug. 2019
 The IEEE/ACM ASONAM Conference in Vancouver, Canada

Concept Drift in Bias and Sensationalism Detection: An Experimental Study Aug. 2019
 The IEEE/ACM ASONAM Conference in Vancouver, Canada

Why should I build a knowledge graph? Aug. 2019
 Invited talk at the Global Big Data Conference, San Jose

Data Science Education May 2019
 Invited talk at the Data Science Conference, Boston

Applying Noisy Knowledge Graphs to Real Problems May 2019
 Invited talk at the DataWorks Summit, Washington, DC

Let's embed everything! May 2019
 Invited talk at ODSC East, Boston

Fighting Human Trafficking with AI Jan. 2019
 Invited talk at Texas AI Summit

Let's embed everything! Jan. 2019
 Invited talk at Data Day Texas

Behavioral Interview Seminar for Graduate Students Nov. 2018
 USC Information Sciences Institute

Applying Noisy Knowledge Graphs to Real Problems Nov. 2018

Invited talk at Home Depot in Atlanta, Georgia

Knowledge Graphs: A Lingua Franca for Humans and Machines?

Nov. 2018

Invited workshop talk at Open Data Science Conference (ODSC-West) in San Francisco, California

Structured Event Entity Resolution in Humanitarian Domains

Oct. 2018

The 17th International Semantic Web Conference, held in Monterrey, California

Fighting Human Trafficking with AI

Sep. 2018

Invited talk at O'Reilly AI Conference in San Francisco, California

Technology-assisted Investigative Search: A Case Study from an Illicit Domain

Apr. 2018

Talk at the ACM CHI Conference on Human Factors in Computing Systems in Montreal, Canada

Building Knowledge Graphs for Social Good

Mar. 2018

Spring Seminar Series, USC Center for Artificial Intelligence in Society (CAIS)

The Many Face(t)s of Knowledge Graphs: In Vivo vs. In Vitro

Feb. 2018

Research Breakfast Seminar Series, USC Information Sciences Institute

Building Advanced Search and Analytics Engines over Arbitrary Domains...Without a Data Scientist

Jan. 2018

Invited speaker at Data Day Texas

Building Domain-specific Search Engines for Investigative Decision Support

Jan. 2018

Invited seminar presentation: USC Department of Industrial and Systems Engineering

On the Future of the Semantic Web

Dec. 2017

Invited presentation at the Digital Turn in Comparative Constitutionalism Workshop, held in Hannover, Germany

Neural Embeddings for Populated Geonames Locations

Oct. 2017

International Semantic Web Conference, held in Vienna, Austria

An Investigative Search Engine for the Human Trafficking Domain

Oct. 2017

International Semantic Web Conference, held in Vienna, Austria

From Noisy Information Extraction to Rich Information Retrieval in Unusual Domains

Jun. 2017

NLP Seminar, USC Information Sciences Institute

Predicting Role Relevance with Minimal Domain Expertise in a Financial Domain

May 2017

DSMM Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

Using Contexts and Constraints for Improved Geotagging of Human Trafficking Webpages

May 2017

GeoRich Workshop at ACM SIGMOD, 2017, held in Chicago, Illinois

Populating a Linked Data Entity Name System

Apr. 2016

Ph.D. Final Defense, University of Texas at Austin

Committee: Daniel P. Miranker (chair), Raymond Mooney, Joydeep Ghosh, Risto Miikkulainen and Eric Price

Populating a Linked Data Entity Name System

Apr. 2016

AI Seminar: Interview Talk

USC Information Sciences Institute

Decision-making Bias in Instance Matching Model Selection

Oct. 2015

The 14th International Semantic Web Conference, held in Bethlehem, Pennsylvania

Sorted Neighborhood for Schema-free RDF Data

May 2015

The 4th Knowledge Discovery and Data Mining meets Linked Open Data workshop,

The 12th European Semantic Web Conference, held in Portoroz, Slovenia

<i>Semi-supervised Instance Matching using Boosted Classifiers</i> The 12 th European Semantic Web Conference, held in Portoroz, Slovenia	May 2015
<i>Entity Resolution in a Big Data Framework</i> Doctoral consortium, the 29 th Conference on Artificial Intelligence (AAAI)	Jan. 2015
<i>Populating a Linked Data-based Entity Name System</i> Ph.D. Oral Proposal, University of Texas at Austin Committee: Daniel P. Miranker (chair), Raymond Mooney, Joydeep Ghosh, Risto Miikkulainen and Eric Price	Nov. 2014
<i>Populating Entity Name Systems for Big Data Integration</i> The 13 th International Semantic Web Conference, held in Riva Del Garda, Italy	Oct. 2014
<i>A Two-Step Blocking Scheme Learner for Scalable Link Discovery</i> The 9 th International Workshop on Ontology Matching at the 13 th International Semantic Web Conference, held in Riva Del Garda, Italy	Oct. 2014
<i>Populating an Entity Name System</i> Research Preparation Exam, University of Texas at Austin Committee: Daniel P. Miranker (chair), Greg Plaxton and Pradeep Ravikumar	Mar. 2014
<i>An Unsupervised Algorithm for Learning Blocking Schemes</i> The 13 th IEEE International Conference on Data Mining, held in Dallas, Texas	Dec. 2013
<i>Machine Learning Techniques for Offline Handwriting Transcription</i> Undergraduate honors thesis presentation at the University of Illinois at Urbana-Champaign	Dec. 2012