Ruijie Wang

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EDUCATION

- **Shanghai Jiao Tong University**   Shanghai, China
  Department of Computer Science   *Sept. 2015 – Jul. 2019 (expected)*
  - BS in Computer Science & Technology
  - 3rd year GPA: 92.73/100; 2nd year GPA; 92.15/100; 1st year GPA: 86.03/100
  - Advisors: Prof. Xinbing Wang & Prof. Weinan Zhang
  - Good mathematics training with advanced elementary courses, including Calculus, Linear Algebra, Probability & Statistics
  - Rong Chang Innovation Scholarship: *award only 20 students in SJTU for excellent research achievement*
  - Chunstung Scholar: *award only 50 students in SJTU for excellent research performance and potential*

RESEARCH INTERESTS

- Data Mining for Graphs, Large-scale Data Management, Data Systems

PUBLICATIONS

- AceKG: A Large-scale Knowledge Graph for Academic Data Mining   [PDF]
  R. Wang, Y. Yan, J. Wang, Y. Jia, Y. Zhang, W. Zhang, X. Wang   *Accepted by CIKM 2018 (short paper, aceptance rate: 23%)*

- Author Name Disambiguation on Heterogeneous Information Network with Adversarial Representation Learning
  R. Wang, Y. Yan, C. Wen, Y. Zhou, J. Gao, W. Zhang, X. Wang   *In submission to WWW 2019.*

- RI-SSGE: A Framework with Rule Inference and Sentence Schema Graph Embedding for Question to Subgraph
  Y. Yan, **R. Wang**, C. Wen, H. Sun, Y. Zhu, W. Zhang, X. Wang   *In Preparation*

RESEARCH EXPERIENCE

- **Adversarial Representation Learning for Author Disambiguation**   *Jun. - Sept. 2018*
  - Proposed a novel adversarial representation learning model for heterogeneous information network in the academic domain, to deal with author name disambiguation task.
  - Represented the information of heterogeneous information network via embedding content and relation information into low-dimension representation space and employing a generative adversarial module.

- **KBQA with Rule Inference and Sentence Schema Graph Embedding**   *Jun. - Sept. 2018*
  - Proposed a novel KBQA framework with rule inference and sentence schema graph embedding (RI-SSGE), which combined the strengths of rule inference method, template-based method and graph representation learning method.
  - Participated in building a new academic KBQA dataset with 133,143 question-answer pairs.
  - Conducted experiments on an existing dataset Geoquery-880 and ran some extensive experiments on more complex queries with various operations.

- **AceKG: A Large-scale Knowledge Graph for Academic Data Mining**   *Nov. 2017 - Apr. 2018*
  - Created Academic Knowledge Graph (AceKG), a large-scale (**3.13 billion triples**) knowledge graph in academic domain, to provide clean academic information and a large-scale benchmark dataset for researchers to conduct data mining projects.
  - Performed entity alignment with the existing KGs or datasets and some rule-based inferences to further extend the entity and make it linked with other KGs in the linked open data cloud.
  - Conducted experiments to evaluate several state-of-the-art knowledge embedding and network representation learning approaches.
  - Implemented the Knowledge Graph System based on Jena framework consisting of TDB database and SPARQL engine.

- **Acemap: Academic Map System**   *Oct. 2016 - Jun. 2017*
  - Built a new academic system (Acemap), working for big scholarly data analysis and visualization of potential relationship among papers.
  - Cleaned and inferred on a huge academic dataset with billions of records including authors, papers, institutes and etc.
  - Developed visualizing applications for scholarly information networks and presentation approaches.

PATENTS

- Y. Jia, Y. Huang, H. Wu, J. Li, **R. Wang**, J. Su, M. Liu, Y. Hong, J. Wang, L. Fu, X. Wang, *"Overlapping Community Detection in Temporal Text Networks"*, CHN No. 107480213A

TEACHING EXPERIENCE

- **Teaching Assistant for EE448**: Big Data Mining