Jiaxuan Li

Postgraduate student, Department of Computer Science
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Education

Hai Nan University, Hainan, China

B.S., computer science — Jun. 2017 to Jul. 2013

GPA: 3.67 / 4.0 (88.2 / 100), Top 3%

Supervisor: Yucong Duan

Harbin Institute of Technology，Shenzhen, China

M.S., computer science — Sep. 2017 to Now

GPA: 3.1 / 4.0, Top 30%

Supervisor: Philippe Fournier-Viger

Publications

- **Jiaxuan Li**, Fournier-Viger, P., Lin, J. C.-W., Truong, T. (2018). Discovering low-cost high utility patterns. 1st International Workshop on Utility-Driven Mining (UDM2018), in conjunction with the KDD 2018 conference, ACM press, 9 pages. **Spotlight presentation**

- Fournier-Viger, P., **Jiaxuan Li**., Lin, J. C.-W., Chi, T.T. (2019). Discovering and Visualizing Patterns in Utility Sequences. Proc. 21st Intern. Conf. on Data Warehousing and Knowledge Discovery (DAWAK 2019), Springer.

- Efficiently Extracting Cost-Effective patterns from Sequential Event Log. Fournier-Viger, P., **Jiaxuan Li**, Jerry Chun-Wei Lin, Tin Truong Chi, R. Uday Kiran. Knowledge-Based Systems (KBS), Elsevier. **Under second round review.**

- A Survey of Pattern Mining in Dynamic Graphs. Fournier-Viger, P., Ganghuan He, Chao Cheng, **Jiaxuan Li**, Jerry Chun-Wei Lin, Unil Yun. WIREs Data Mining and Knowledge Discovery, Wiley. **Submitted.**

- Duan, Yucong, **Jiaxuan Li**, Qiang Duan, Lixin Luo, and Liang Huang. "Empirical rules-based view abstraction for distributed model driven development." International Journal of Computational Science and Engineering 17, no. 2 (2018): 192-207.

Intern & Research Experience

- **2012 Lab, Huawei Technologies** — Jun. 2019 to Aug. 2019

  Mentor: Dr. Zixian Zhang

  Focus: Automatic Extraction and Examination of CAD Drawings

  - Designed, implemented and tested a function for automatically checking the drawings' content, made by AUTOCAD software, about servers.
  - Analyzed about 20 types of drawings, extracted their components' data structure and mined different components' crucial features, respectively.

- Based on those features, extracted contents in specified areas, and compared those information with the official documents, and finally outputted a detailed verification result as excel.
- Checked the operating specifications of the drawings, such as the intersection between texts and lines, missing arrows and so on; and manual errors, such as the absence of a component' description or missing a component that should be contained in the drawing.
- Tested about 40 thousands drawings, and now this feature was added into their project provided for using.

- **Noah'Ark Lab, Huawei Technologies** Aug. 2019 to Now

  Mentor: Dr. Min Zhou

  Focus: Spatial-Temporal Sequence Pattern Mining in Telecommunication Network
  - Using dynamic attributes graph as an approach to mine important sequences of alarms and filter that of trivial from one or more different network equipment. The mined sequences of alarms have a higher priority to be responded. In addition, designing correlation measure and generating potential correlated sequence rules of alarms to identify the root-cause alarms.
  - Currently pre-processing and analyzing data, including the information of alarms' occurrence time, domain, name, source and network topology information.
- **Undergraduate Research Assistant** Sep. 2016 to May. 2017

  Mentor: Dr. Yucong Duan
  - Organized knowledge graphs of high school subjects (Mathematic, Physics, Biology, and Chemistry) made by Freemind software, and visualized those graphs using d3.js and implemented a basic query feature.
  - Involved in implementing UML class diagram detection tools, which supports checking whether exist rings, gets a high level abstract class diagram(Big Picture) and query the path between classes.

Awards

- Outstanding graduate of Hainan University, 2017.
- Interdisciplinary Contest in Modeling Certificate of Achievement, Honorable Mention, 2016.