Ziming Li

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My research interests are Dialogue systems, Information Retrieval and Inverse Reinforcement Learning

Research Publications

1. **Li, Z.**, Kiseleva, J. & de Rijke, M. (2020). Rethinking supervised learning and reinforcement learning in task-oriented dialogue systems.
2. **Li, Z.**, Lee, S., Peng, B., Li, J., Kiseleva, J., de Rijke, M., … Gao, J. (2020). Guided dialogue policy learning without adversarial learning in the loop.
3. **Li, Z.**, Kiseleva, J., Agarwal, A. & de Rijke, M. (2019). Learning data-driven objectives to optimize interactive systems. *LIRE workshop, NeurIPS 2019*.
4. **Li, Z.**, Kiseleva, J. & de Rijke, M. (2019). Dialogue generation: From imitation learning to inverse reinforcement learning. *AAAI 2019*.
5. **Li, Z.** & de Rijke, M. (2017). The impact of linkage methods in hierarchical clustering for active learning to rank. *SIGIR 2017*, 941–944.
6. **Li, Z.**, Kiseleva, J., de Rijke, M. & Grotov, A. (2017). Towards learning reward functions from user interactions. *ICTIR 2017*, 289–292.
7. Liu, X., **Li, Z.**, Liu, J., Liu, L. & Zeng, X. (2015). Implementation of arithmetic operations with time-free spiking neural p systems. *IEEE transactions on nanobioscience*, *14*(6), 617–624.
8. Liu, X., **Li, Z.**, Suo, J., Liu, J. & Min, X. (2015). A uniform solution to integer factorization using time-free spiking neural p system. *Neural Computing and Applications*, *26*(5), 1241–1247.
9. Liu, X., **Li, Z.**, Suo, J., Ju, Y., Liu, J. & Zeng, X. (2014). Solving multidimensional 0-1 knapsack problem with time-free tissue p systems. *Journal of Applied Mathematics*.

Internships

05/2019 - 08/2019 Deep Learning Group, Microsoft Research AI, Redmond

05/2020 - 08/2020 Amazon Alexa AI, Seattle

Education

2016 – now
PhD Candidate, University of Amsterdam, Netherlands
Supervisor: Prof. Dr. Maarten de Rijke
Co-Supervisor: Dr. Julia Kiseleva
Research Topic: Information Retrieval, Dialogue systems and Inverse Reinforcement Learning

2013 – 2016
M.Sc. Computer Science, Xiamen University, China
Supervisor: Dr. Xiangrong Liu
Research Topic: Membrane Computing, Bioinformatics
GPA: 3.4/4.0
Thesis Title: Research on Some Mathematical Problems Based on Time-free P Systems (9.2/10, Outstanding Master Thesis Title)

2009 – 2013
B.Sc. Computer Science, Xiamen University, China
GPA: 3.6/4.0
Thesis Title: Parameterization of Triangular Meshes (graded 8.9/10, Outstanding Bachelor Thesis Title)

Awards and Achievements

2014 National Scholarship for outstanding Postgraduate students, China

2015 National Scholarship for outstanding Postgraduate students, China

Projects

2013-2016
National Natural Science Foundation of China: Research on Complicated Molecular Logic Circuits based on Nucleic Acid System (Grant Nos. 61472333)
Responsibility: Implementing the simulation of molecular circuit with *seesaw* gate

National Natural Science Foundation of China: Spiking neural P systems based on molecular technology (Grant Nos. 61202011)
Responsibility: Applying time-free P systems to solve mathematical problems, such as multidimensional 0-1 Knapsack problem (MKP)

Teaching Experience

TAing
Information Retrieval 1 (2018), University of Amsterdam, Netherlands

Teaching Experience (continued)

Supervision

- Two Master theses (2018), University of Amsterdam, Netherlands
  - Title: *Cyclists' Route Choice in Amsterdam: Finding Factors of Influence and Predicting Cyclists' Route ChoicE*, with Chris Olberts
  - Title: *How to measure a neighborhood: Exploring geo-spatial data enrichment and neighborhood embeddings for housing price prediction*, with Guus Bobeldijk
- Two Master theses (2019), University of Amsterdam, Netherlands
  - Title: *Text Classification for Ground Lease Documents*, with Rouel de Romas
  - Title: *Predicting salary using Job posting data*, with Roma Bakhyshov

Academic Activities

Reviewing

- Reviewer for TOIS and IPM
  Sub-reviewer for ECIR'18, SIGIR'18, CIKM'18, NAACL'19 and SIGIR'19

Summer School

- European Summer School in Information Retrieval 2017, Barcelona, Spain

Skills

Tools & Technologies

- Numpy, PyTorch, Tensorflow

Coding

- Python, C, LaTeX

Languages

Native

- Chinese

Professional working proficiency

- English