RYO KAMOI

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https://ryokamoi.github.io/

EDUCATION

Pennsylvania State University - Ph.D. in Computer Science   Aug 2023 -
  Advised by Dr. Rui Zhang
University of Texas at Austin - Master of Science in Computer Science   Aug 2020 - Dec 2022
  Advised by Dr. Greg Durrett   GPA 4.00
Keio University, Japan - Bachelor of Engineering in Statistics   Apr 2016 - Mar 2020
  Advised by Dr. Kei Kobayashi, Top student in the Department of Mathematics   GPA 3.95

RESEARCH INTERNSHIPS

Amazon, Cambridge, UK - Applied Scientist Intern in Alexa Team (NLP)   Jul - Dec 2021
  – Proposed an interpretable model for answer quality evaluation for chatbots.
SenseTime Japan - Research Internship in CV for autonomous driving   Feb 2020 - Jan 2021
  – Proposed a SOTA system of unknown instance detection on a monocular camera for autonomous driving.
Datasection Inc, Japan - Research Internship in NLP   May 2017 - Aug 2018
  – Research in Natural Language Generation (especially text VAEs) trained on a small training dataset.

SELECTED PUBLICATIONS https://scholar.google.com/citations?user=4OWTLKAAAAAJ

My main research area is natural language generation, with particular interests in evaluation metrics and error detection.

Natural Language Processing

  Kamoi, R., Goyal, T., Rodriguez, J. D., & Durrett, G. (2023). WiCE: Real-world Entailment for Claims in Wikipedia. *In EMNLP (main)*.

  Kamoi, R., Goyal, T., & Durrett, G. (2023). Shortcomings of Question Answering Based Factuality Frameworks for Error Localization. In *EACL (main)*.

Anomaly Detection in Computer Vision

  Kamoi, R., & Tomite, K. (2021). Efficient Unknown Object Detection with Discrepancy Networks for Semantic Segmentation. In *the NeurIPS 2021 Workshop on Machine Learning for Autonomous Driving*.

  Kamoi, R., & Kobayashi, K. (2020). Out-of-Distribution Detection with Likelihoods Assigned by Deep Generative Models Using Multimodal Prior Distributions. In *The AAAI's Workshop on Artificial Intelligence Safety*.

  Kamoi, R., & Kobayashi, K. (2020). Why is the Mahalanobis Distance Effective for Anomaly Detection? *arXiv preprint arXiv:2003.00402*.

HONORS AND AWARDS

Keio University Global Fellowship - Scholarships for graduate study at UT Austin   2020
Keio Engineering Foundation Award - Graduation with highest honors (First place in the Dept. of Mathematics)   2020
Japan Student Services Organization (JASSO) Exchange Student Scholarship   2018

SKILLS

  – Python, PyTorch, TensorFlow
  – Language: Japanese (native speaker)