

Researcher (Computer Science)

Ziwei XU

Date of Birth: 13/06/1995

Address: Arakawa, Tokyo, Japan

Gender: Female

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Nationality: China



PROFILE

Highly self-motivated researcher with demonstrated research expertise on **NLP, Relation Extraction, Semantic Web, Linked Data and Knowledge Representation.**

* Title of PhD. Thesis: Enhancing LDA for Ontology Learning

* Postdoctoral Research: Knowledge Graph Construction; Causality Detection and Inference

* Programming skills: Python, R, Java, c++

EDUCATION

◆ University of Nantes, France

Ph.D in Computer Science, June 2021

M.S. 2017 (Academic ranking: Top 5%)

◆ University of Tasmania, Australia

◆ Shanghai Ocean University, China

Dual Bachelor (B.BA & B. Info) 2015

◆ Shanghai Maritime University, China

M.Eng. in Computer Science, 2018

RESEARCH & TEACHING EXPERIMENTENCE

[2022- Current]

National Institute of Advanced Industrial Science and Technology, Japan (産総研)

Postdoctoral Researcher for Causality Inference & Knowledge Graph Construction

[2021 – 2022]

National Institute of Informatics, Japan

Assistant Researcher - Causality relations discovery in financial domain

[2022 – Current]

Ichise Lab, Tokyo Institute of Technology, Japan

Invited Researcher to supervise student's research projects - Applications of NLP and AI in Financial Scenarios

[2020-2021]

Polytech Nantes, France

Teaching assistant on Semantic Knowledge Representation

[2021-2023]

Google Summer of Code, Remote

Co-Mentor and Contributor for DBpedia Project - Towards a Neural Extraction Framework

PUBLICATION

International Conferences:

- [1] Xu Z., Harzallah M., Guillet F. Comparing of Term Clustering Frameworks for Modular Ontology Learning. **KEOD 2018**, Seville, Spain. pp.128-135.
- [2] Xu Z., Harzallah M., Guillet F., Ichise R. Modular Ontology Learning with Topic Modelling over Core Ontology. **KES 2019**, Budapest, Hungary.
- [3] Xu, Z., Nararatwong, R., Kertkeidkachorn, N., & Ichise, R. 2022. iLab at FinCausal 2022: Enhancing Causality Detection with an External Cause-Effect Knowledge Graph. **FNP@LREC2022**, pages 124–127, Marseille, France.
- [4] Xu, Z., Nararatwong, R., Kertkeidkachorn, N., & Ichise, R. 2023. Improving Financial Terminologies Recognition regarding Morphological Inflection. **JSAI 2023**, Kumamoto, Japan.
- [5] Kertkeidkachorn, N., Nararatwong, R., Xu, Z. and Ichise, R. FinKG: A Core Financial Knowledge Graph for Financial Analysis, **IEEE ICSC 2023**, CA, USA, pp. 90-93.

Journals:

- [6] Xu Z., Liu G.. LTE Uplink Scheduling Algorithm based on QoS forwards Compatibility to WiMax [J]. *Computer engineering* 2019, 45(4), :93-99.

Book Chapter:

- [7] Xu, Z., Harzallah, M., Guillet, F., & Ichise, R. (2018, September). Towards a Term Clustering Framework for Modular Ontology Learning. In *International Joint Conference on Knowledge Discovery, Knowledge Engineering, and Knowledge Management* (pp. 178-201). Springer, Cham.