Zengqing Wu

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EDUCATION

Kyoto University   Kyoto, Japan
M.Eng. in Informatics (GPA: 4.18/4.3)   *Oct 2023 – Present*

Osaka University   Osaka, Japan
B.A. in Human Sciences   *Oct 2019 – Sep 2023*

PUBLICATIONS

Utilization of Information Entropy in Training and Evaluation of Students' Abstraction Performance and Algorithm Efficiency in Programming   Jan 2024
IEEE Transactions on Education
Zengqing Wu*, Huizhong Liu, Chuan Xiao*

Exploring the Balance Between Computational Thinking and Learning Motivation in Elementary Programming Education: An Empirical Study with Game-based Learning   Jan 2022
IEEE Transactions on Games
Huizhong Liu, **Zengqing Wu***, Yili Lu, Ling Zhu

Smart Agent-Based Modeling: On the Use of Large Language Models in Computer Simulations   Nov 2023
arXiv
Zengqing Wu, Run Peng, Xu Han, Shuyuan Zheng, Yixin Zhang, Chuan Xiao*

Large Language Models as Urban Residents: An LLM Agent Framework for Personal Mobility Generation   Mar 2024
arXiv
Jiawei Wang, Renhe Jiang*, Chuang Yang, **Zengqing Wu**, Makoto Onizuka, Ryosuke Shibasaki, Chuan Xiao

Shall We Talk: Exploring Spontaneous Collaborations of Competing LLM Agents   Feb 2024
arXiv
Zengqing Wu, Shuyuan Zheng*, Qianying Liu, Xu Han, Brian Inhyuk Kwon, Makoto Onizuka, Shaojie Tang, Run Peng, Chuan Xiao

"Guinea Pig Trials" Utilizing GPT: A Novel Smart Agent-Based Modeling Approach for Studying Firm Competition and Collusion   Jun 2023
Conference on Information Systems and Technology 2023
Xu Han*, **Zengqing Wu**, Chuan Xiao

A Token-Free Approach to Entity-Based Keyword Search in Classical Chinese   Mar 2024
Forum on Data Engineering and Information Management 2024 (Japan)
Zhongqing Jiang, **Zengqing Wu**, Chuan Xiao*, Yuya Sasaki, Makoto Onizuka

Token-Free Cross-Lingual Named Entity Recognition for Classical Chinese   Mar 2023
Forum on Data Engineering and Information Management 2023 (Japan)
Zhongqing Jiang, **Zengqing Wu**, Chuan Xiao*

Modeling Thinking in Science and Engineering Practice (Book)   2024
Shanghai Educational Publishing House
Shouchen Zhu, **Zengqing Wu**

The Implications and Practices of Mathematical Abstraction and Mechanistic Analysis in Mathematical Modeling Teaching in Secondary Schools Jul 2022
School Mathematics in Shanghai (China)
Jian Wang, **Zengqing Wu***

The Teaching Strategy of Isomerism of the Same Topic for the New Subject "Biology Interdisciplinary Case Analysis" in Shanghai Senior High School Entrance Examination Sep 2021
Biology Teaching (China)
Shouchen Zhu, Jie Zhao, **Zengqing Wu***

Works to Appear

Toward the Next Step in the Internationalization of Japanese Higher Education: Impact of Academic Internationalization in Japan Dec 2022
Higher Education
Zengqing Wu*, Yukiko Ishikura

Projects

Data Mining of Amazon Reviews Based on Text Sentiment Analysis, Feature Engineering, and Poison Process Mar 2020
Mathematical Contest in Modeling 2020
Zengqing Wu, Zhuofan Wang, Jingyi Zhu

- Advisor: Koichi Fukase, Dean, OU Graduate School of Science
- Award: Meritorious Winner in Mathematical Contest in Modeling 2020 (Top 8%)

The Impact of Grading Systems of Education on Equity, Teaching Efficiency, and Learning Strategies Mar 2021
Osaka University Undergraduate Independent Research Program
Zengqing Wu, Chuan Xiao*

- Advisor: Chuan Xiao, Associate Professor, OU Graduate School of Information Science and Technology

人科の歴史、知識と学生の好奇心を一つに：AI技術に基づくオンライン学術フォーラム Oct 2022
大阪大学人科50周年記念学生プロジェクト
Zengqing Wu, Meihui Zheng

Work Experience and Internship

Kyoto University Faculty of Engineering (School of Informatics) Kyoto, Japan
Teaching Assistant: Computer Science Laboratory and Exercise 4 – Database *Oct 2023 – Dec 2023*

Computer Center, China Welfare Institute Children's Palace Shanghai, China
Lecturer of Computer Science (Part-time) *Sep 2020 – Present*

Osaka University Graduate School of Information Science and Technology Osaka, Japan
Technical Staff (技術補佐員) (Part-time) *Jun 2022 – June 2023*

Osaka University University of California Office Osaka, Japan
Teaching Assistant: University of California Frontier Science I *Apr 2022 – Oct 2022*

Awards & Achievements

- DEIM 2024 Sponsor Award (NEC Corporation Award)
  第22回日本データベース学会年次大会スポンサー賞（日本電気株式会社賞）
- Teraura Sayoko Scholarship 2022
  寺浦さよ子記念奨学会奨学金
- JASSO Scholarship 2019
- Top 10 Outstanding Youth in Shanghai Changning District (Youth Innovation in Science and Technology) 2018
- Meritorious in Mathematical Contest in Modeling 2020 (MCM/ICM): Top 8%
- Finalist in High School Mathematical Contest in Modeling 2018 (HiMCM): Top 2%
- First Prize of National Olympiad in Informatics in Provinces, Shanghai, China 2015 (NOIP)
- Outstanding in the International Mathematical Modeling Challenge 2021 (IMMC): Top 1% (As supervisor, co-supervisor: Linfeng Dong)
- Meritorious in High School Mathematical Contest in Modeling 2022 (HiMCM): Top 20% (As supervisor)

Peer Review Activity

International conference (as external reviewer): CIKM 2022, DASFAA 2023, KDD 2023, ADMA 2023

International conference: ICLR 2024 Workshop LLMAgents

Journal: IEEE Access

Skills

Programming: Python, C/C++ (Since 2009), C#, R, Netlogo

Languages: English (Fluent, TOEFL: 103), Japanese (Intermediate, JLPT-N1), Chinese (Native), Shanghainese

Certificates

Fundamental Information Technology Engineer Certificate (基本情報技術者)   *May 2017*
Issued in China