April 10, 2024

Program-Specific Researcher Position (Postdoctoral Fellow) at Kyoto University

We are seeking a postdoc researcher who works in one of the following projects:

- JST CREST project "Hyperdemocracy: Implementing a Large-scale Consensus Support Platform based on the Social Multi-Agent Sytems",

- JST SICORP project "FureAI: An Implementation of An Elders' Living Support System based on Social Conversational Agents and Smart Activity Monitoring" with Carlton University and NRC, Canada, and

- Kakenhi Kiban-A project "Multi-agent creative consensus building algorithms in complex negotiation environments".

A successful candidate will work with Professor Takayuki Ito (Kyoto University, Kyoto, Japan). The contract will initially run until the end of March 2025, with the possibility of annual renewal by the end of the project.

The main research topic will be AI-powered decision-making support and consensus support. The expected research topic includes (but is not limited to) the following:

a) Large Language Model (LLM)

b) Decision Support Systems and Consensus Support Systems based on LLM Agents.

c) Creative Automated Negotiation among Agents

d) Computational Mechanism Design and Algorithmic Game Theory

Job title: Program-Specific Researcher (Postdoctoral Fellow)

Number of positions: 2 - 3

Job description: You will pursue your research agenda in line with the project's goal. You need a Ph.D. degree (or to be close to completion) and a proven publication record. The experience of active interdisciplinary collaboration is highly desirable. The annual gross salary is determined according to the rules of Kyoto University based on your qualifications. Insurances are covered according to the rules of the hiring institutions.

Required qualifications: A successful candidate must meet the following qualifications.

- Ph.D. degree or must be very close to its completion.

- Excellent communication skills and the ability to work collaboratively in a multidisciplinary research environment.

- Proficiency in Python and experience with relevant machine learning and deep learning libraries

- Expertise in one or more of the following:
  - Large Language Model (LLM)
  - Artificial Intelligence and Multi-Agent Systems.
  - Computational Mechanism Design and Algorithmic Game Theory

Starting date: As early as possible after the employment is admitted by Kyoto University.

Contract term: May 1, 2024 or as soon as possible thereafter - March 31, 2025 (The employment period may be renewed after the expiration of the employment period. However, the maximum length of employment is until the end of the project.)

Probation period: 6 months

Working conditions: Working hours: 38 hours 45 minutes per week under a flexible-hours system.

Salary and benefits: To be determined per the existing employment regulations of Kyoto University.

Social insurance: Eligible for MEXT* mutual aid association membership, employees' pensions, employment insurance, and workers' compensation insurance. *Ministry of Education, Culture, Sports, Science and Technology of Japan

Application and inquiry:
Applications should be sent via email to ito@i.kyoto-u.ac.jp. Please include
- your brief CV,
- description of research interests (in 1 page A4),
- the list of papers,
- 3 representative papers (in pdf),
- the list of grants, and
- the contact of two references.

Application deadline: Open until the position is filled.

We will contact you for additional material and an interview provided that we find sufficient relevance in your application. Starting dates are flexible. The positions will remain open until filled.

Inquiries should also be sent via email to professor Takayuki Ito, ito@i.kyoto-u.ac.jp.

The following is the contacting address:

Takayuki Ito, Ph.D. Professor

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Others:

We will not use personal information provided in an application for any other purpose than screening for employment. At Kyoto University, smoking indoors is prohibited, and smoking outdoors is prohibited except for designated smoking areas to prevent secondhand smoke.