

[This is an unofficial translation; the official text is in Japanese.]

Tohoku University
Graduate School of Information Sciences
Computation Theory Laboratory
Call for Applications: Professor

Position: Professor (1 opening)

Field of Specialization: Computation Theory

With the rapid advancement of artificial intelligence technologies, intelligent information processing—which extracts knowledge from massive amounts of data to achieve advanced recognition, reasoning, and decision-making—is growing increasingly important as a societal infrastructure. Its applications span a wide range of fields, including image and video analysis, biometrics, medical informatics, and autonomous systems. To further advance these highly sophisticated intelligent systems, it is essential to integrally develop foundational technologies, such as algorithms and learning theory, alongside applied technologies, such as machine learning, pattern recognition, and perceptual information processing, in addition to the classical theory of computation.

This Laboratory promotes cutting-edge academic research and education in the theory of computation, encompassing learning theory, machine learning, pattern recognition, and intelligent information processing. In particular, we aim to pioneer theories and technologies that underpin the recognition, understanding, and utilization of diverse forms of information, with a focus on image and video data. To this end, we conduct comprehensive research spanning from fundamental theory to practical application. Furthermore, by realizing intelligent information systems that contribute to solving real-world challenges, we are dedicated to cultivating the talent that will lead the next generation of information science.

Affiliation: Computation Theory Laboratory, Graduate School of Information Sciences, Tohoku University

Workplace: Aobayama Campus, Tohoku University (Aoba-ku Aramaki aza-Aoba 6-3-09,

Sendai-shi, Miyagi-ken, Japan)

Appointment Start Date: May 1, 2027 or thereafter

Term of Appointment: No fixed term (subject to the prescribed retirement age)

Working Hours: Discretionary labor system for specialized work (deemed working hours: 7 hours 45 minutes per day)

Holidays: Saturdays, Sundays, national holidays, year-end and New Year holidays (December 29 to January 3)

Salary: Annual salary system (in accordance with Tohoku University salary regulations)

Social Insurance: Enrollment in National Public Service Personnel Mutual Aid Association, Employment Insurance, Industrial Accident Compensation Insurance

Qualifications

- (1) A doctoral degree
- (2) Demonstrated achievements in research and teaching, with strong motivation to continue both
- (3) Ability to teach undergraduate and graduate courses
- (4) Ability to supervise master's and doctoral theses
- (5) Ability to conduct education and research supervision in English
- (6) Ability to conduct lectures and university duties in Japanese
- (7) Active involvement in internal administration and external outreach/collaboration

Duties

- (1) Research
 - Conduct research in the area of expertise. Candidates who can promote international collaborative research or industry-academia joint research are preferred
- (2) Education
 - Teach graduate courses and supervise graduate students in their research
- (3) Administration
 - Participate in internal administrative duties

Note: The Graduate School of Information Sciences is an independent graduate school. Undergraduate education will be conducted on a concurrent-appointment basis with the Department of Electrical, Information and Physics Engineering (School of Engineering),

in collaboration with faculty of the School of Engineering, including lectures, training, and supervision of graduation research.

Application Materials

- (1) Curriculum Vitae (format at applicant's discretion; include standard information)
- (2) List of Publications and Achievements (format at applicant's discretion; for example, include):
 - Original papers, international conference papers, other articles (indicate whether each is peer-reviewed; mark your five key papers by placing a circle (○) next to each)
 - Books and other publications
 - Presentations at international conferences (major ones)
 - Patents obtained
 - Research grants secured
 - Teaching record (courses taught, content, titles of supervised graduation/master's/doctoral theses)
 - Records of international collaborative research or industry-academia projects
 - Awards and honors, and any other notable achievements
- (3) Research Achievement Statement (approx. 2 pages, focusing on the five key papers above)
- (4) Research and Teaching Plan (approx. 1 page)
- (5) Copies of the Five Key Papers (full text, not just title and abstract)
- (6) Names, affiliations, and official institutional e-mail addresses of two referees who can be contacted about your achievements (no letters of recommendation required)

All application materials will be appropriately destroyed after the selection process.

Submission Deadline

Friday, November 27, 2026 (17:00 JST)

Selection Process

Document screening, followed by an interview if shortlisted (Please note that travel expenses for the presentation will not be provided. The interview may be conducted online at our discretion).

Submission Address

Google Form: <https://forms.gle/zMWTe9qUdhhtEiC97> (Google Account login required)

If you are unable to access Google Forms due to network restrictions or technical issues, please contact us by email with the subject line “Application: Professor Position in Computation Theory” for further instructions.

Inquiries

Graduate School of Information Sciences, General Affairs Section (Faculty Recruitment),

E-mail: is-kobo@grp.tohoku.ac.jp

For Information: Tohoku University’s DEI Initiatives

Tohoku University actively promotes diversity, equity, and inclusion (DEI) and welcomes applications from a wide range of individuals.

Tohoku University Declaration of Diversity, Equity and Inclusion (DEI) webpage:
<https://dei.tohoku.ac.jp/vision/about/>

In accordance with Article 8 of the Act on Equal Opportunity and Treatment between Men and Women in Employment, we give preferential consideration to female applicants when qualifications and abilities are equivalent.

We have established the “Tohoku University—Live as Who You Are—Guidelines for Gender and Sexual Diversity” to set out both our policy and concrete measures aimed at creating an environment in which students and faculty/staff can carry out their studies, research, and duties with respect for diverse gender identities.

Center for Diversity, Equity, and Inclusion (DEI Center) webpage:
https://dei.tohoku.ac.jp/vision/consulting/for_minority/

Childcare facilities available to all faculty and staff include Kawauchi Keyaki Nursery

(capacity 22) and Aobayama Midori Nursery (capacity 116), plus Hoshino-ko Nursery (capacity 120) for hospital staff—the largest on-site childcare among Japanese national universities. A sick-child care room is also available.

For details on work–life balance support (including paternity leave measures) and research support, see:

Center for Diversity, Equity, and Inclusion (DEI Center) webpage:

https://dei.tohoku.ac.jp/vision/consulting/for_family/

Human Resource Department webpage:

<https://c.bureau.tohoku.ac.jp/jinji-top/external/a-4-kosodate/>