One postdoctoral position or specially appointed assistant professor, Graduate School of Information Science and Technology, Hokkaido University

The Grant-in-Aid for Scientific Research on Innovative Area Singularity biology (Area PI: Osaka Univ., Prof. Takeharu Nagai) Group A02-2: Development of Data-driven Mathematical Analysis for Single Cells and Singularity Cells (PI: Hokkaido Univ., Prof. Tamiki Komatsuzaki, API: Hokkaido Univ., Assoc. Prof. Atsuyoshi Nakamura, Tokyo Inst. Tech., Assist. Prof. Shunsuke Ono) has started from 2018 June 29. In this project, we develop a new technology for finding singularity cells, which are scarce but important cells that cause drastic change. Using the techniques of information science and statistical mathematics to find discrimination and prediction rules of singularity cells, the technology aids in clarifying emergence of singularity cells.

Along this project, we recruit one postdoctoral position or specially appointed assistant professor, and would like to seek candidates from a variety of fields. We would appreciate it if you could forward this job-opening information to well-qualified person. Interview may be carried out in the process of selection.

1. **Position Title**: Postdoctoral fellow or specially appointed assistant professor at Graduate School of Information Science and Technology, Hokkaido University

2. **Area of Specialization**: Information science (machine learning, data science), statistical physics, and relevant area of research fields, interdisciplinary science to bridge theory and experiments.

3. **Qualification**: Applicants are required to have a Ph.D. or doctoral degree.

4. **Employment Status**: The employment is a one-year basis but renewable by mutual agreement up to five years from Apr. 1st, 2019.

5. **Expected Start Date**: Apr. 1st, 2019

6. **Documents to Be Submitted**: 
Curriculum vitae (with photograph, telephone number, and e-mail and mailing address) including educational records, professional career records, activity records in academic society, publication and awards.

Reprints or copies of five significant articles (original papers and/or review articles).

Brief statement of applicant’s research interests and appealing points, including the summary of applicant’s past and present research (~2 pages in A4-size sheet).

Contact information of at least two reference persons (affiliation, telephone number and e-mail address).

7. Deadline
Feb. 18th, 2019

8. Mailing Address and Notice
We will accept the application by e-mail or internet file attachment. The documents will not be returned. Submitted documents are strictly protected and we do not use the obtained personal information for any purpose other than the screening. Applicants must indicate “Application Documents for IST, Hokkaido Univ.” in the subject of e-mail, and send to Assoc. Prof. Atsuyoshi Nakamura atsu(at)ist.hokudai.ac.jp.

Postal Mailing Address
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10. The candidate should have a certain level of knowledge with methodology and concepts of any of the following: information science (e.g., theories of sparse modeling and
online learning), statistical science, and relevant mathematical sciences. For example; those who are familiar with bandit theory and are interested in developing a method to bridge information science and biology; those who know the underlying theory of nano measurements and are interested in developing information scientific approaches; those who have theoretical background and experience with advanced measurements and are interested in developing information scientific approaches; those who have a background in physics such as statistical mechanics and are able to develop information scientific approaches by looking the actual data, are preferred.