2ⁿᵈ International Workshop on Behavior analysis and Recognition for knowledge Discovery (BiRD 2023)

in conjunction with the IEEE International Conference on Pervasive Computing and Communications(PerCom 2023), March 20-24, 2023 (Atlanta, USA)

BiRD workshop aims to provide a forum for presenting and discussing research on the recognition and understanding of behavior data collected from various sources, such as humans, animals, and automobiles, towards scientific discovery (e.g., ecology and medical science) and/or actual business applications (e.g., industry, sports, healthcare, and stockbreeding).

In addition, we plan to invite biologists and neuroscientists who have collected and analyzed behavior data of various animals. While the biologists and neuroscientists have massive amounts of behavior data, they have limited opportunities to apply state-of-the-art behavior analysis techniques to their data. This workshop provides a good opportunity of collaboration between biologists and information scientists.

Call for papers

This workshop solicits papers on the recognition and understanding of behavior data collected from various sources, such as humans, animals, and automobiles, towards scientific discovery (e.g., ecology and medical science) and/or actual business applications (e.g., industry, sports, healthcare, and stockbreeding). Because the organizers of this workshop are core members of an interdisciplinary project of engineer, computer science, biology, and neuroscience on behavior understanding (http://navi-science.org/english/) and one of the organizers is a biologist specialized in seabirds, we solicit poster papers that mainly focus on real data and discuss experience/limitations of conventional analysis methods applied to the data. The topics of interest include, but are not limited to:

- Data mining methods for behavior/activity data
- Trajectory mining
- Modeling behavior/activity
- Behavior/activity data collection for scientific discovery and/or actual business
- Data preparation and labeling for scientific discovery and/or actual business
- Knowledge extraction from massive amounts of behavior/activity data
- Behavior/activity monitoring and recognition systems for scientific discovery and/or actual business
- Applications of activity recognition and/or indoor/outdoor localization
- State-of-the-art indoor/outdoor localization techniques
- State-of-the-art behavior/activity recognition and understanding techniques
- Visualization of behavior/activity data for knowledge discovery
- Data collection from real world
- Limitation of conventional methods applied to real data

Important dates

Workshop paper submissions ▶ November 14, 2022
Paper notifications ▶ January 5, 2023
Camera ready ▶ January TBD, 2023

Submission

Authors are invited to submit full papers that are unpublished and not under review elsewhere. In addition, we solicit poster papers that mainly focus on real data and discuss experience/limitations of conventional analysis methods applied to the data.

Full details of submission procedures are available at
https://bio-navigation.jp/bird2023/

Organizers

Takuya Maekawa (Osaka University)
Ken Yoda (Nagoya University)
Keisuke Fujii (Nagoya University)
Olga Heim (Leibniz institute for zoo)

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