Behaviormetrika - Call for Papers
Special issue on “Functional data analysis and its applications”

Decision on contents of each issue rest with the editors of the journal

We hope as many papers as possible to be submitted, and will do our best for smooth review.
Editors of the special issue: Gil González-Rodríguez & Hidetoshi Matsui

Recent advances in high-throughput measurement technologies and devices make it available large scale data sets requiring new statistical methodologies for their analysis. In particular, more and more time-course data have been obtained which can be modeled as functions. Thus, functional data analysis has received considerable attention in different fields of application, including bioscience, system engineering, and meteorology. The basic idea behind functional data analysis is to express time-course data as smooth functions and then draw information from the collection of functional data. One of the advantages of functional data analysis is that it allows the analysis of data even if the number of time points and observed times differ from individual to individual.

This special issue focuses on functional data analysis and its applications in various fields where time-course data can be available. The aim is to illustrate the effectiveness of the methodologies to analyze functional data through their applications.

Possible topics include, but are not limited to:

- Regression modeling for functional data
- Clustering and classification for functional data
- Functional time series
- Change point detection
- Depths and robust measures
- Bayesian functional data analysis
- Spatial functional data
- Analysis of weather data
- Analysis of time-course gene expression data
- Pattern recognition of time-course data in robotics
[Important Dates]
Submission deadline (revised): September 15, 2018
Final acceptance: January 31, 2019
Expected publication: February 2019

[Submissions]
In addition, please specify that you submit your paper to the special issue on “Functional data analysis and its applications” in the cover letter.

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