<< Workshop in IEEE Big Data 2024 >>

The Second Workshop on Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment

(uploaded on May 11, 2024)

<<**Acronym**>> EconManag
<<**Workshop Style**>> In-Person. Authors who have visa problems or other serious difficulties are allowed to present their papers on line or with video.

<<**Introduction to Workshop**>>

The purpose of this workshop is to discuss how large-scale data are dealt with in economics and management sciences including marketing, finance, and accounting interdisciplinary among practitioners, engineers, and researchers. We intend to clarify what kinds of effect those data have in our social institutions and share what are obstacles to promoting the utilization in those fields.

Since social or cultural systems are fundamentally different among different countries and regions, the data usage that successfully worked in a region does not necessarily work in the same way in other regions. The goal of this workshop is thus to explore the utilization of large-scale data in consideration of such social or cultural backgrounds across broader disciplines with practitioners, engineers, and researchers in information engineering and computer science.

As special topics, furthermore, we intend to discuss about some methods of experiments for the interactions between computers and cognitive or emotional aspects of human behavior in digital marketing, accounting informatics, and personnel management as well as financial issues, urban planning, and energy supply. Topics related to practical use of technologies on large-scale data are provided from the viewpoints of information engineering and computer science, while the estimation of the value of data is also discussed from the viewpoints of economics of information.

<<**Research Topics**>>

We call for papers written by anyone who are interested in the following topics related to this workshop.

Data-oriented Applications in Management:
· Economics of Information and Organization
· Statistical Techniques and Algorithms
· Financial Risk and Security
· Health Care and Medical Issues
· Digital Marketing and Marketing Science
· Management Accounting and Informatics
· Dynamical Systems and Econophysics
· Computational Social Science
· Experimental Social Science

Case Studies:
· Methods for Evaluation of Data Utilization
· Curation and Management of Data
· Trust, Resilience, Privacy Issues
· Urban Planning and Transportation
· Generation and Supply of Renewable Energy

Methods of Experiments:
· Behavioral Science and Modeling
· Cognitive Science and Human Behavior

· Human-Computer Interaction
· Social Simulation and Numerical Studies
· Lab and Field Experiments

Markets for Data Transaction:
· Process and Technologies for Data Exchange
· Pricing Data and Data Platform
· Data Acquisition and Sensors
· Strategic Manipulation and Incentives
· Fairness and Social Welfare

Practical Use of Technologies:
· Text and Data Mining, Summarization, Topic Analysis, and Report Generation
· Machine Learning for Social Data
· Reinforcement Learning in Economics
· Retrieval/Recommender Systems
· Big Data Optimization
· Causality Estimation in Management
· People Analytics and Personnel Issues
· Eye Tacking, Mouse Tracking, and EEG

<<**Important Dates**>>
June 26 (Wed), 2024: Workshop Paper Submission Starts (US-EST)
Sept 23 (Wed), 2024: Due date for full workshop paper submission (US-EST)
Nov 6 (Wed), 2024: Notification of paper acceptance to authors (US-EST)
Nov 20 (Wed), 2024: Camera-ready of accepted papers (US-EST)
Dec 15-18 (Sun-Wed), 2024: Workshop (US-EST)

<<Format and Schedule>>

Half day (8 presentations)

Time	Contents
8:50-9:00	Opening Notes
9:00-10:40	4-5 Presentations
10:45-11:15	Invited Talk (expected)
11:20-13:00	4-5 Presentations

<<Program Committee>>

Organizers

Naoki Watanabe, Keio University, Japan (**Chair-in-Chief**): Economics of Information
Kazuhito Ogawa, Kansai University, Japan (**Co-Chair**): Behavioral and Experimental Economics
Satoshi Takahashi, The University of Electro-Communications, Japan (**Co-Chair**): Operations Research

PC Members (Organizers are omitted in this list.)

Teruaki Hayashi, The University of Tokyo, Japan: Information Engineering, IEEE member
Hiroki Sakaji, The University of Tokyo, Japan: Natural Language Processing, IEEE member
Hiroyasu Matsushima, Shiga University, Japan: Multi-Agent Simulation, IEEE member
Nariaki Nishino, The University of Tokyo, Japan: Service Engineering
Zhen Li, Kansai University, Japan: Digital Marketing, Eye-Tracking

Supporting Members (those who support the organizers and the PC members as reviewers)

Yuya Akita, Kyoto University, Japan: Spoken Language Processing, IEEE member
Hiroyasu Ando, Tohoku University, Japan: Mathematical Modeling, IEEE member
Tetsuya Kawamura, Tezukayama University, Japan: Behavioral and Experimental Economics
Yoichiro Fujii, Meiji University, Japan: Actuarial Science
Yusuke Osaki, Waseda University, Japan: Finance
Yoichi Izunaga, Kyushu University, Japan: Operations Research
Takashi Yamada, Yamaguchi University, Japan: Social Simulation
Satoshi Taguchi, Doshisha University, Japan: Management Accounting
Rei Goto, Keio University, Japan: Medical and Health Economics
Taro Kumano, Yokohama National University, Japan: Matching Theory
Eizo Akiyama, The University of Tsukuba, Japan: Human and Computer Interaction
Morimitsu Kurino, Keio University, Japan: Matching Theory
Nobuyuki Hanaki, Osaka University, Japan: Behavioral and Experimental Economics
Ken Ishibashi, Kansai University, Japan: Soft Computing, Eye-Tracking
Hajime Kobayashi, Kansai University, Japan: Repeated Games
Yoshitaka Okano, Kansai University, Japan, Experimental Economics and Psychology

<<Paper Submission>>

Submission Starts on June 24 (Fri). Every Paper is limited to 10 pages in the IEEE double column format, including the bibliography and appendices. Papers with more than 10 pages may be rejected without review. The templates (tex, docx) are available at

https://www.ieee.org/conferences/publishing/templates.html

Accepted papers will be published in the Proceedings volume in the IEEE Xplore Digital Library. Those papers should not be submitted to other journals, conferences, and workshops. Blow is the site for on-line paper submission. Choose no. 14 and click on the title of the WS. (Download this pdf file, and then click on the following URL, if necessary.)

https://wi-lab.com/cyberchair/2024/bigdata24/scripts/ws_submit.php?subarea=S

The paper submission site for this WS will start to work in late June.

<<Our past record>>

As part of the Big Data 2023 workshops, we successfully conducted the (first) Workshop on `` Large-scale Data Utilization in Economics of Information and Management Sciences: Theory, Computation, and Experiment in Sorrento, Italy. 10 distinguished papers were accepted after blind reviews and there were an audience of more than 25 participants in person. After reviewing 13 papers, we accepted 10 papers. (The invited speaker also submitted his paper to the workshop.) The purpose of the workshop was to discuss how large-scale data can be used in medical practice, corporate management, and public systems and to quantitatively understand what kinds of effect it has and what are obstacles to promoting its use in those fields.

The website URL for WS 2023 is as follows.

http://labs.kbs.keio.ac.jp/naoki50lab/Workshop_IEEE_BigData2023.pdf

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