Principle and practice of data and Knowledge Acquisition Workshop (PKAW 2022)

Shanghai, China, November 10, 2022
Website: https://pkawwebsite.github.io/2022

CALL FOR PAPERS

Welcome to the 2022 Principle and practice of data and Knowledge Acquisition Workshop (PKAW). It will be collocated with the 19th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2022) and held virtually in **Shanghai, China in November 2022**.

Over the past two decades, PKAW has provided a forum for researchers and practitioners to discuss the state-of-the-art in the area of knowledge acquisition and machine intelligence (MI, also Artificial Intelligence, AI). PKAW 2022 will continue the above focus and welcome the contributions on the multi-disciplinary approach of human and big data-driven knowledge acquisition, as well as AI techniques and applications. Wide range of topics related to knowledge acquisition and representation are greatly welcome.

Areas of Interest

All aspects of knowledge acquisition, data engineering and management for intelligent systems, including (but not restricted to):

- Knowledge Acquisition
  - Fundamental views on knowledge that affect the knowledge acquisition process and the use of knowledge in knowledge engineering
  - Algorithmic approaches to knowledge acquisition
  - Tools and techniques for knowledge acquisition, knowledge maintenance and knowledge validation
  - Evaluation of knowledge acquisition techniques, tools and methods
  - Ontology and its role in knowledge acquisition
  - Knowledge acquisition applications tested and deployed in real-life settings
- Knowledge Representation and Discovering
  - Knowledge representation learning
  - Temporal knowledge graph
  - Data linkage
  - Data analytics and mining
  - Big data acquisition and analysis
  - Machine learning/deep learning
  - Semantic Web, the Linked Data and the Web of Data
- Responsible Data/Knowledge Management and System
  - Transparency, explainability, trust, and accountability
  - Privacy and security
  - Other ethical concerns
- Knowledge-aware Application
  - Question answering
  - Recommendation system
  - Domain-related application
- Human-centric Knowledge Engineering
  - Human-machine collaboration, integration, interaction, delegation, dialog
  - Hybrid approaches combining knowledge engineering and machine learning
- Other Topics
  - Experience and Lesson learned
  - Reproducibility and negative results of knowledge engineering
  - Innovative user interfaces
  - Crowd-sourcing for data generation and problem solving

Paper Submission

PKAW will not accept any paper that, at the time of submission, is under review for, has already been published in, or has already been accepted for publication in, a journal or another venue with formally published proceedings. If part of the work has been previously published, authors are strongly encouraged to cite and compare/contrast the new contributions with the parts that were already published before. The paper must substantially extend the previously published work.

PKAW 2022 will adopt **single-blind** rule for the reviewing process, i.e., the authors do not know the names of the reviewers, but the reviewers can infer the names of the authors from the submission. All papers for the review should be submitted electronically using the conference management tool in PDF format and formatted using the Springer LNAI template. The paper should not exceed 12 pages long (excluding references). For accepted papers, the latex source files and a camera-ready version are required to be submitted using the Springer LNAI template. Submission link: https://easychair.org/conferences/?conf=pkaw2022

Post-proceedings Publication

All papers will be peer reviewed, and those accepted for the workshop will be included in the Arxiv conference proceedings. Selected papers will be also invited to submit their extension to a special issue of the Journal of Human-Centric Intelligent Systems.

Contact

For any question, please send your email to Dr. Qing Liu (q.liu@data61.csiro.au) and Dr. Wenli Yang (yang.wenli@utas.edu.au).

Organizing Committee

Workshop Chairs
Qing Liu, Data61, CSIRO, Australia
Wenli Yang, University of Tasmania, Australia

Publicity Chair
Shiqing Wu, University of Tasmania, Australia