



Call For Papers*

IEEE BigDataService 2023 – The 9th IEEE International Conference on
Big Data Computing Service and Machine Learning Applications

Athens, Greece, July 17-20, 2023

Workshop on Big Data and Machine Learning with Privacy Enhancing Tech

I. ABOUT THE WORKSHOP

As privacy concerns become increasingly important, all types of stakeholders (from businesses, researchers, entrepreneurs) must find ways to incorporate privacy-enhancing technologies (PET) into their solutions - especially in machine learning and big data-based projects. While they are eager to introduce innovative solutions to their research community or market, they often face challenges due to stringent privacy regulations. Without adequate privacy protection, many projects and services are at risk of being shut down, despite their potential benefits and novelty.

To address these challenges, either academic researchers or industrial companies, they all must invest in PET to help preserve privacy while still delivering valuable insights from big data using machine learning algorithms. By integrating PET into their projects, they can not only comply with privacy regulations but also show the trustworthiness to their customers and stakeholders. The use of PET can also help companies, researchers, entrepreneurs to mitigate the risks associated with data breaches and cyber attacks, which can have severe consequences.

To work together by complementing with each other's expertise, researchers, businesses, and PET experts can develop effective solutions that meet the needs of customers, regulators, and other stakeholders. In this workshop, this workshop aims at connecting all these crucial needs and encourage more scientific contributions to this domain. The target audiences include researchers (PhD, postdoc and faculty) from academia and data scientists/engineers from industry who work on or are interested in machine learning, big data and privacy.

II. SCOPE AND TOPICS

Topics of interests (but not limited to):

- Big data and privacy-preserving data science
- Privacy-preserving machine learning
- NLP with privacy preservation
- Data management of big data with PET
- Machine Learning with PET
- Graph networks with privacy preservation
- Multilayer graph network analysis with privacy

III. SUBMISSION INSTRUCTION

Welcome to submit your research work (8-page full research paper or 5-page short research papers/demo papers, or 2-page posters). All accepted papers will be published by IEEE Computer Society Press (EI-Index) and included in IEEE Digital Library.

More information about submission, [click here](#).

IV. IMPORTANT DATES

Deadline: **1 June, 2023** (23:59 AoE)

Notification: **10 June, 2023**

V. ORGANIZERS

- Lili Jiang, Department of Computing Science, Umeå University, Sweden
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- Sharma Chakravarthy, The University of Texas at Arlington, USA

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