

The 5th International Workshop on Big Surveillance Data Analysis and Processing (BIG-Surv)

in conjunction with ICME 2023 **Brisbane, Australia (10-14 July 2023)**



Organizing Chairs



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Important Dates

Submission Deadline

30 March 2023

6 April 2023

Notification of Acceptance

23 April 2023

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With the rapid growth of video surveillance applications and services, the amount of surveillance videos has become extremely "big" which makes human monitoring tedious and difficult. At the same time, new issues concerning privacy and security have also arisen. Therefore, there exists a huge demand for smart and secure surveillance techniques which can perform monitoring in an automatic way. Firstly, the huge abundance of video surveillance data in storage gives rise to the importance of video analysis tasks such as event detection, action recognition, video summarization including person re-identification and anomaly detection. Secondly, with the rich abundance of semantics and the multimodality of data extracted from surveillance videos, it is now essential for the community to tackle new challenges, such as efficient multimodal data processing and compression. Thirdly, with the rapid shift from static singular processing to dynamic collaborative computing, it is now vital to consider distributed and multi-camera video processing on edge- and cloud-based cameras, and at the same time, offering privacy-preserving considerations to safeguard the data. This workshop aims challenge the multimedia community towards extending existing approaches or exploring brave and new ideas.

This workshop is intended to provide a forum for researchers and engineers to present their latest innovations and share their experiences on all aspects relating to new surveillance video analysis and processing techniques. Topics of interests include, but are not limited to:

- Action/activity recognition, and event detection in surveillance videos
- Object detection and tracking in surveillance videos
- Multi-camera surveillance networks and applications
- Surveillance scene parsing, segmentation, and analysis
- Crowd parsing, estimation and analysis
- Person, group or object or re-identification
- Summarization and synopsis of surveillance videos
- Big Data processing in large-scale surveillance systems
- Distributed, edge and fog computing for surveillance systems
- Data compression in surveillance systems
- Low-resolution video analysis and processing: Recognition and object detection, restoration, denoising, enhancement, super-resolution
- Surveillance from multiple modalities, not limited to: UAVs, satellite imagery, dash cams, wearables

Authors are invited to submit a full paper (two-column format, max. 6 pages incl. references) electronically according to the guidelines available in our workshop website and the conference website (<https://2023.ieeeicme.org>)

Workshop site: <https://bigsurv.github.io>

Paper Submission Site:

<https://cmt3.research.microsoft.com/ICMEW2023>

(Please make sure your paper is submitted to the correct track: BIG-Surv)