

**Title: Activity- & Gait-based Applications**  
**Technically supported by, TC Medical Informatics**

**About:**

The goal of this special session on *Activity- & Gait-based Applications* (AGA) is to gather the contemporary achievements and breakthroughs in the fields of human action, activity & gait recognition – related to healthcare applications.

This session is soliciting original & technically-sound research articles with theoretical & practical contributions, along with promising ideas on various applications – so that the workshop can ignite some new concepts, ideas, applications and possibilities to move further. We seek contributions on the above themes from the computer vision, machine learning, imaging, robotics, & AI communities.

Please email to [atiqahad@du.ac.bd](mailto:atiqahad@du.ac.bd) and [zasim@brur.ac.bd](mailto:zasim@brur.ac.bd) if you have any query.

We may consider for a journal issue or edited book in Springer in the future [based on updated papers after the conference].

**Topics of interest include (but are not limited to):**

- Human action/activities/gesture/gait (AAGG) recognition from video or other relevant sensor data for various applications, especially in healthcare domain
- Datasets on AAGG
- Multi-modal scopes on AAGG
- Action/activity/gesture recognition from skeleton data, depth map.
- Deep learning and action recognition
- Action localization and detection; Action sequence generation/completion
- Action quality assessment/scoring
- Behavior recognition based on bodily & facial expressions
- Applications and future trends of AAGG

**Organizers**

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