

## Call for Papers

### ICPR 2024: 2<sup>nd</sup> Workshop on Fairness in Biometric Systems

Biometric systems have spread worldwide and therefore have been increasingly involved in critical decision-making processes, including finances, public security, and forensics. Despite their increasing impact on everybody's daily life, many biometric solutions perform highly divergent for different groups of individuals, as previous works have shown. Consequently, the recognition performance of such systems is significantly impacted by demographic and non-demographic attributes of users. This brings to the fore discriminatory and unfair treatment of users of such systems.

At the same time, several political regulations, such as Article 7 of the Universal Declaration of Human Rights and Article 71 of the General Data Protection Regulation (GDPR), have highlighted the importance of the **right to non-discrimination**. These political efforts show the pertinent need for analyzing and mitigating equability concerns in biometric systems. Given the increasing impact on everybody's daily life, as well as the associated social interest, research on fairness in biometric solutions is urgently needed.

This includes

- Developing and analyzing biometric datasets
- Proposing metrics related to equability in biometrics
- Demographic and non-demographic factors in biometric systems
- Investigating and mitigating equability concerns in biometric algorithms including
  - Identity verification and identification
  - Soft-biometric attribute estimation
  - Presentation attack detection
  - Template protection
  - Biometric image generation
  - Quality assessment

#### Important Dates

**Workshop:** December 01, 2024

**Full Paper Submission:** August 12, 2024

**Acceptance Notice:** September 20, 2024

**Camera-Ready Paper:** September 24, 2024

#### Keynote Speaker

- Prof. Aythami Morales (UAM)

- Vítor Albiero, Ph.D. (Meta)

#### Links

<https://sites.google.com/view/icpr2024-fairbio/home>

#### Submission site:

<https://cmt3.research.microsoft.com/FAIRBIO2024/>



#### Topics include (not limited to):

- Datasets designed for the evaluation and development of fair biometric solutions.
- Demographic and non-demographic fairness concerns.
- Differential performance and outcome in biometric systems.
- Estimation of equability in biometric systems.
- Explainability and transparency in biometrics.
- Equability-aware and equability-mitigating biometric algorithms.
- Evaluating and mitigating equability issues in biometric solutions, including identity recognition, soft-biometric attribute estimation, presentation attack detection, and quality assessment.

#### Organizing Committee

- Dr. Philipp Terhörst (University of Paderborn, Germany) – [Philipp.terhoerst@uni-paderborn.de](mailto:Philipp.terhoerst@uni-paderborn.de)
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