

## Facial Micro-Expression (FME) Workshop and Challenge: Advanced techniques for Facial Expressions Generation and Spotting

**Website URL:** <https://megc2021.github.io>

### Important Dates

#### Submission Deadline:

11 July 2021

#### Notification:

25 July 2021

#### Camera-Ready:

1 August 2021

### Organizing Chairs

#### Jingting Li

Chinese Academy of  
Sciences, China

#### Moi Hoon Yap

Manchester Metropolitan  
University, UK

#### Wen-Huang Cheng

National Yang Ming Chiao  
Tung University, Taiwan

#### John See

Multimedia University,  
Malaysia

#### Xiaopeng Hong

Xi'an Jiaotong University,  
China

#### Xiaobai Li

University of Oulu, Finland

#### Su-Jing Wang

Chinese Academy of  
Sciences, China

### Advisory panel

#### Xiaolan Fu

Chinese Academy of  
Sciences, China

#### Guoying Zhao

University of Oulu, Finland

Micro-facial expressions (MEs) are involuntary movements of the face that occur spontaneously in a high-stakes environment. Computational analysis and automation of tasks on micro-expressions is an emerging area in face research, with a strong interest appearing from 2014. Only recently, the availability of a few spontaneously induced facial micro-expression datasets has provided the impetus to advance further from the computational aspect. Particularly comprehensive are two state-of-the-art FACS coded datasets: CASME II and SAMM. While much research has been done on these datasets individually, there has been no attempts to introduce a more rigorous and realistic evaluation to work done in this domain. This is the inaugural workshop in this area of research, with the aim of promoting interactions between researchers and scholars from within this niche area of research, and also including those from broader, general areas of expression and psychology research.

### AGENDAS

#### Part I. FME Workshop:

To solicit original works that address a variety of challenges of Facial Expressions research, but not limited to:

- Facial expressions (both micro- and macro-expressions) detection/spotting
- Facial expressions recognition
- Multi-modal micro-expression analysis, combining such as depth information, heart rate signal etc.
- FME feature representation and computational analysis
- Unified FME spot-and-recognize schemes
- Deep learning techniques for FMEs detection and recognition
- New objective classes for FMEs analysis
- New FMEs datasets Facial expressions data synthesis
- Psychology of FMEs research
- Facial Action Unit (AU) detection and recognition
- Emotion recognition using AUs
- FME Applications

#### Part II. FME Challenge:

Facial Micro-Expression (FME) Challenge for facial micro-expression research

### SUBMISSIONS

Detail information of the the FME workshop and challenge can be found at <https://megc2021.github.io>, and Challenge submissions should be accompanied by a paper submission.

Workshop paper format should adhere to the paper submission guidelines for ACM MULTIMEDIA 2021: <https://2021.acmmm.org/call-for-paper.html>

Submission website: **TBD**

