

# CALL FOR PARTICIPATION ICMI 2018 Eating Analysis & Tracking Challenge



Boulder, CO, USA, 20<sup>th</sup> October 2018

## Organisers:

- Simone Hantke (Technische Universität München, Germany)
- Maximilian Schmitt (Universität Augsburg, Germany)
- Panagiotis Tzirakis (Imperial College London, U.K.)
- Björn Schuller (audEERING GmbH, Gilching, Germany)

## Important Dates:

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|--|--------------|
| • Release of training data and evaluation script | 4 April 2018 |
| • Release of test data                           | 16 May 2018  |
| • Closing competition                            | 29 May 2018  |
| • Paper submission deadline                      | 30 May 2018  |
| • Notifications                                  | 18 July 2018 |
| • Camera ready                                   | 31 July 2018 |

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## The Challenge:

*The ICMI 2018 Eating Analysis & Tracking Challenge* is an open research competition dealing with Machine Learning for audio/visual tracking of human subjects' recorded while eating different types of food during speaking.

The Challenge features three Sub-Challenges:

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| (1) <b>Food-type Sub-Challenge:</b>       | Recognition of one of 6 food types (or no food)     |
| (2) <b>Food-likability Sub-Challenge:</b> | Recognition of the subjects' food likability rating |
| (3) <b>Chew and Speak Sub-Challenge:</b>  | Recognition of the subjects' eating difficulty      |

The competition shall help bridging the gap between current-state research on multimodal machine learning, computational paralinguistics, and user behaviour tracking.

All Sub-Challenges allow participants to find their own acoustic/visual features and/or their own machine learning model. Standard acoustic and visual feature sets will be provided featuring recent end-to-end deep learning and more ground-breaking crossmodal bag-of-words that may be used by the participants. We encourage both contributions aiming at highest performance, and contributions aiming at fostering brave new ideas in this context.

The participants are free to provide results to one or several Sub-Challenges. They may report results obtained on the development sets, but have only three trials to upload their results on the test set per Sub-Challenge, whose labels are unknown to them.

Each participation has to be accompanied by a paper presenting the results that undergoes a peer-review and has to be accepted for the conference in order to participate in the Challenge. The results of the Challenge will be presented at ICMI 2008 in Boulder, CO, USA. The technical programme committee will be announced soon. The organisers will not participate themselves. Prizes will be awarded to the winner(s).

If you are interested and planning to participate in the *ICMI 2018 EAT Challenge*, please send an email to the organisers ([icmi-eat@ihearuplay.eu](mailto:icmi-eat@ihearuplay.eu)) to indicate your interest and visit the homepage for more information: <https://icmi-eat.ihearuplay.eu>