ICCV'17 Workshop on
MS-Celeb-1M: Recognizing One Million Celebrities in the Real World
Venice, Italy

IMPORTANT DATES

07/31 Full Paper Submission
08/11 Notification of Acceptance
08/25 Camera-Ready Submission

CALL FOR PAPERS

Nowadays, face recognition is already a multibillion business and is predicted to grow rapidly. Face recognition is the key feature for many applications, including security surveillance, law enforcement, banking financial services, healthcare, entertainment, etc. With large scale training data and recent development in deep convolutional neural network, there has been great progresses in face recognition. With certain tasks, computers have better performance than humans. The problem remained is mainly face recognition in extreme scenarios, which includes face recognition with extremely high accuracy and robustness, face recognition capable of handling extremely large number of people, face recognition trained with one-shot sample for each people, or deployed in an extremely low-power environment.

In this workshop, we propose challenges to stimulate research in some of these directions and provide datasets to facilitate the research. Our first challenge is to recognize one million celebrities from their face images and link them to the corresponding entity keys in a knowledge base. Recognizing one million celebrities could introduce the largest, and potentially the most challenging classification/recognition problem in computer vision. Our second challenge is low-shot face recognition, which is a bottleneck for many real applications.

We provide datasets to facilitate the research above. To the best of our knowledge, our training data (MS-Celeb-1M v1) is by far the largest publicly available face dataset in the world. Moreover, with MS-Celeb-1M v1, we have prepared a low-shot learning setup, which is, to the best of our knowledge, the first large scale low-shot face recognition setup. Please refer to our workshop webpage for more details about the dataset.

Research papers are solicited in, but not limited to, the following area topics:

a. Recognizing one million celebrities from face images
b. Face recognition in low-shot learning scenario
c. Generative model for face synthesis
d. Face representation learning
e. Training with noise labels
f. Image understanding with knowledge base
g. 3D analysis & synthesis
h. Expression analysis

SUBMISSION

All submissions will be handled electronically via the conference's CMT Website (link will be provided soon).

ORGANIZERS

Organizing Committee: Yandong Guo, Lei Zhang, Yuxiao Hu, Rong Xiao
Advisory Committee: Jianfeng Gao, Xiaodong He, Jin Li, Shiguang Shan

contact: msceleb@microsoft.com