

## **MobileNets on the Edge**

Andrew Howard, Staff Software Engineer, Google Research

MobileNets are used widely across industry and academia for mobile and embedded vision applications. In this talk I will present the background and technical details which lead to the design choices for MobileNet models including what makes them extremely efficient and well matched to the mobile use case. I will then present the newest MobileNetV3 models combining neural architecture search as well as new network design elements and their application to classification, object detection and semantic segmentation. I will conclude with results for adapting MobileNets to microcontrollers for IoT applications on the edge.