Tutorial Summary

- DNNs are a critical component in the AI revolution, delivering record breaking accuracy on many important AI tasks for a wide range of applications; however, it comes at the cost of high computational complexity
- Efficient processing of DNNs is an important area of research with many promising opportunities for innovation at various levels of hardware design, including algorithm co-design
- When considering different DNN solutions it is important to evaluate with the appropriate workload in term of both input and model, and recognize that they are evolving rapidly.
- It's important to consider a comprehensive set of metrics when evaluating different DNN solutions: accuracy, speed, energy, and cost



Resources

- Eyeriss Project: http://eyeriss.mit.edu
 - Tutorial Slides
 - Benchmarking
 - Energy modeling
 - Mailing List for updates



- http://mailman.mit.edu/mailman/listinfo/eems-news
- Paper based on today's tutorial:
 - V. Sze, Y.-H. Chen, T-J. Yang, J. Emer, "Efficient Processing of Deep Neural Networks: A Tutorial and Survey", arXiv, 2017

