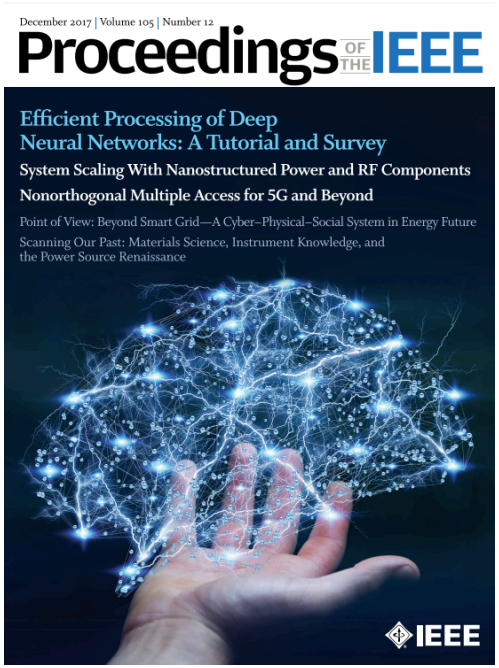
Tutorial Summary

- **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
  - Energy modeling

V. Sze, Y.-H. Chen, T-J. Yang, J. Emer,
"***Efficient Processing of Deep Neural Networks: A Tutorial and Survey***,"
Proceedings of the IEEE, Dec. 2017



Synthesis Lecture Book coming soon! (Estimate end of summer)

  - Mailing List for updates Follow @eems_mit
    - http://mailman.mit.edu/mailman/listinfo/eems-news