**CS 5160-00 FPGA Architecture & CAD** Fall 2018

**Student Presentation Guideline**

**Objective**

Remember your goal is to give an informative and understandable presentation to fellow students on innovation or advance of certain aspect of field-programmable technology. Please be careful to pick a good research work worthy to present in the class.

**Scope**

You may choose a good research paper on the hardware aspect, the software optimization, or the hardware software co-optimization of field-programmable technology (e.g. advance architecture or circuit design of high-performance/low-power field-programmable devices, novel efficient EDA solution for general FPGA-based designs or specific applications). It must be beyond what we have covered in the lectures.

**Resources**

A good place for you to conduct an online search and to download articles is the IEEE digital library or the ACM digital library. The following are the primary technical conferences and journals in field-programmable computing.

*• International Conference on Field-Programmable Logic and Applications (FPL)*

*• ACM International Symposium on Field-Programmable Gate Arrays (FPGA)*

*• IEEE International Conference on Field-Programmable Technology (FPT)*

*• IEEE Symposium on FPGAs for Custom Computing Machines (FCCM)*

• *ACM Transactions on Reconfigurable Technology and Systems (TRES)*

You will also find some papers related to field-programmable technology in:

*• ACM/IEEE Design Automation Conference (DAC)*

*• IEEE/ACM International Conference on Computer-Aided Design (ICCAD)*

*• IEEE/ACM Asia South Pacific Design Automation Conference (ASP-DAC)*

• *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)*

*• IEEE Transactions on Very Large Scale Integration Systems (TVLSI)*

*• ACM Transactions on Design Automation of Electronic Systems (TODAES)*

**To Do**

1. Survey a few papers before choosing a good one.
2. Prepare and make a 20 minutes technical presentation based on the paper. You may follow the suggested division below:

- Introduction, motivation

- Description of the current work and the main ideas

- Conclusions (and future work)

Please send me the title of your selected paper by Dec. 7 noon so that I may fix the presentation schedule.