CA Final Project

Outline

- Lecture:
  - OpenCL programming guide
  - Simulation tool: Multi2sim
- Lab (5%):
  - (5%) Practice: Matrix multiplication and optimization scheme
- Final project (15%):
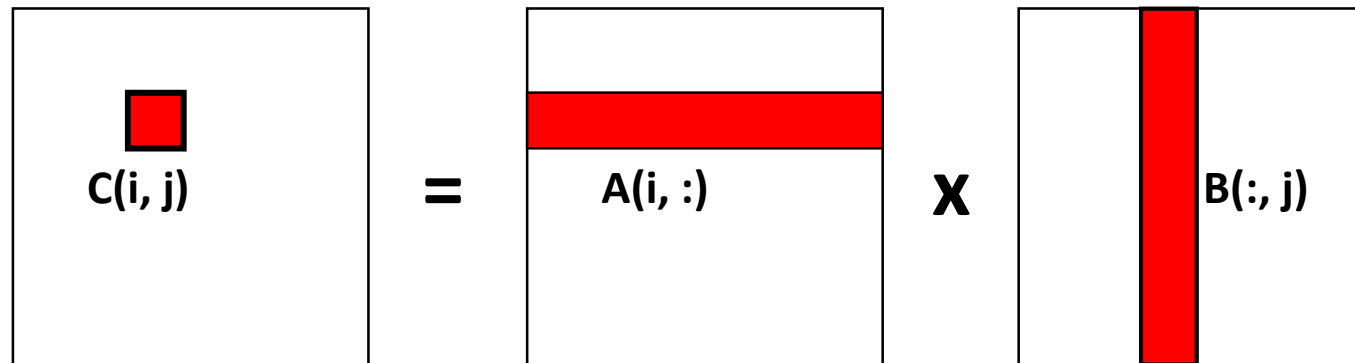 - (5%) Paper reading
  - (10%) CNN (Feed-forward) on GPGPU

OpenCL Programming Guide

- Lecture 1: Basic concept
- Lecture 2: Host programming
- Lecture 3: Kernel programming
- Lecture 4: Profile and optimization
- Lecture 5: Simulation tool (Multi2sim)
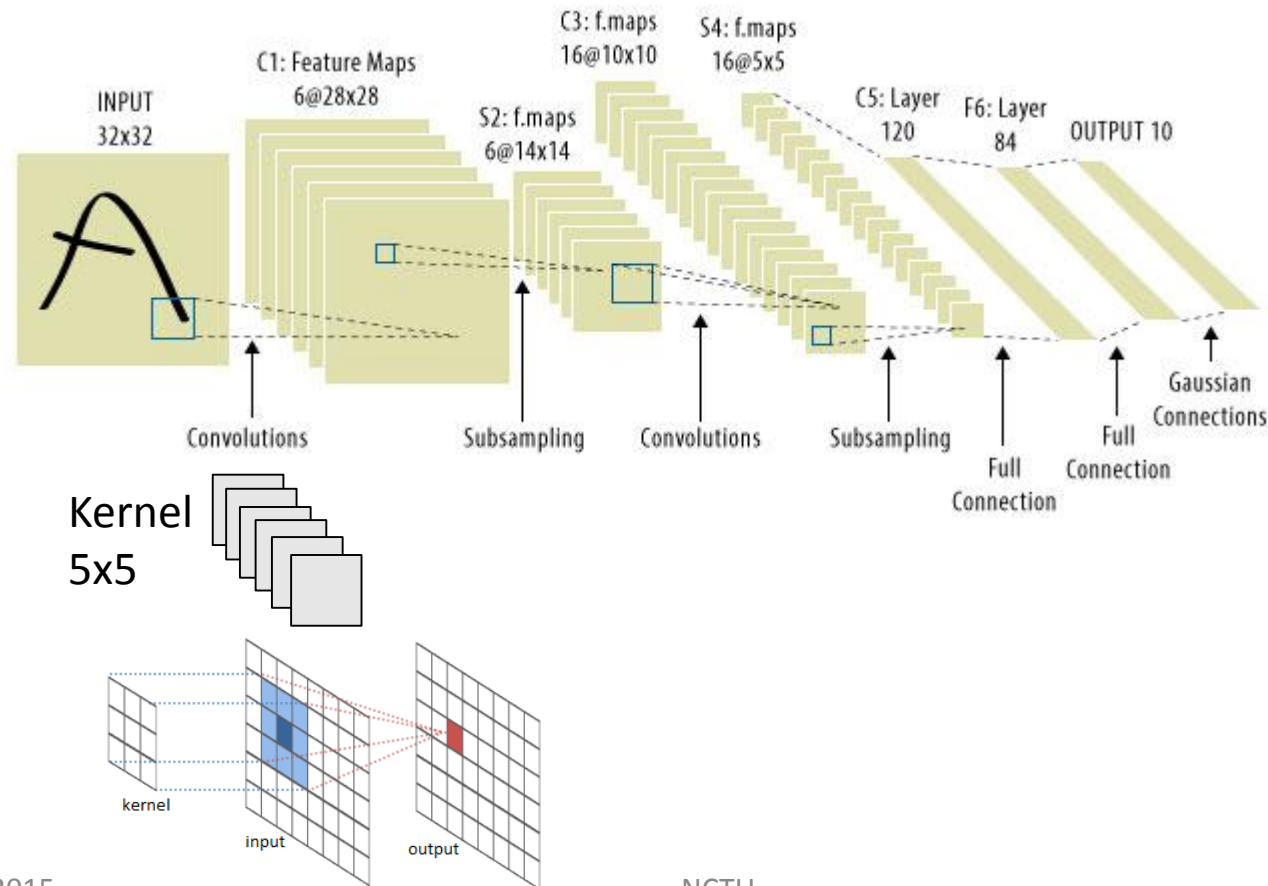
Lab – Matrix Multiplication

- Implement on GPGPU.
- $C_{ij} = \sum_{k=1}^{m} A_{ik} * B_{kj}$

Final Project

- CNN (Feed-forward) on GPGPU

Schedule

Date	Course	Final Project	
		Announce	Deadline
11/19		Schedule	
11/26	HW3 due		
12/3		Lec 1 - Lec 3	
12/10	Exam2	Extra session	
12/17		Paper reading	Lab 1
12/24		Lec 4 - Lec 5	
12/31	HW4 due		Reading Report
1/7	Exam3		
1/14			Final project