

CS3230R: Fall 2013, Spring 2014



Info on CS3230R for Fall 2013 semester.

LeongHW & KSung
(first presented on 04-Nov-2013,
modified on 07-Jan-2014)

CS3230R Introduction



School of Computing

"Algorithms is a most interesting subject matter for challenging and fun research work that has wide ranging applications."

What is our R-module like?

- **Do an algorithm-related project**
 - ❖ **Algorithm Design**
 - ❖ **Algorithm Implementation & Evaluation (AIE)**

- **Most of the time, ADIE**
 - ❖ **AIE also require D; (so becomes) ADIE**

- **YOUR OWN algorithms project.**
 - ❖ **Love to hear them, Contact US.**

Option 1:

Reading existing paper on algorithms

- ❖ **implementing one/two algorithms and**
- ❖ **do a performance comparison.**

Possible Topics: (from LeongHW)

- ❖ **algorithms for detecting communities in large sparse graphs**
- ❖ **algorithms for finding frequent k-mers in DNA sequences**

Option 2:

□ Implement a newly proposed algorithm

- ❖ suggested by us

- ❖ evaluate it against an existing algorithm.

□ Research new algorithm

- ❖ For some problem

- ❖ evaluate it against an existing algorithm.

Option 3:

□ You suggest your own Topic

- ❖ Good. We like student initiatives
- ❖ Come discuss with us.

How to proceed...

- **Those who took CS3230 in Fall 2013:**
- **CS3230R in next sem (Spring 2014)**
 - ❖ **To do the CS3230R next semester;**
 - ❖ **Register for it next semester;**
 - ❖ **Project and assessment next semester;**

What about...

- **Those who already “signed up earlier”**
 - ❖ **We will either say evaluation next semester**
 - ❖ **Or do off-line “Drop-Module”**

- **Those who have not signed up**
 - ❖ **No issue.**
 - ❖ **Proceed as per NORMAL next sem.**

Update:

□ Those who took CS3230 in Fall 2013 and have approached us (Ken and Hon-Wai) about CS3230R:

❖ Sign up for CS3230R in Spring 2014.

□ Those taking CS3230 in Spring 2014:

❖ If you are interested in doing CS3230R, then sign up for it THIS semester (Spring 2014).

Thank you.

Q & A



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Fun activity for all

□ Help make algorithms FUN

- ❖ Creating/Showcasing interesting applications
- ❖ Making algorithms a FUN OUTDOOR activity, suitable for high school students

