Syllabus

⬛ **CSI8712-01 (1ST SEMESTER, 2016)**

연세대학교
YONSEI UNIVERSITY

Created Date	2015-12-22 15:45:20	Last-Modified	2016-01-04 11:07:03
Course Title	SPECIAL TOPICS IN ALGORITHM ANALYSIS	Credit	3
Location	EngHC029	Time	Mon8,Tue7,8

Instructor	Yang Sung-Bong	Department	공과대학 컴퓨터과학과
Office	Eng.Bldg. 3 C512	Telephone	
e-mail & Office Hour	algoyonsei@gmail.com, TBA		

Target Students	Computer Science Graduate Students
Course Description & Goals	This course is a Reseach-oriented course; Learning various new topics in Computer Science and writing a formal paper on a student`s own topic
Prerequisite	No Prerequisites
Course Requirements	Depening on the enrollment, students may group 2-3 as one team, or each student works individually for 1. selecting a topic, 2. finding a problem, analyzing the problem, 3. investigating related work, 4. proposing solutions (algorithms), 5. implementing the solutions, and finaly 6. writiing a formal paper. Each student should present 3-5 papers on his/her research field during the class.

Grading Policy	Attendance 10%
	Paper and Interim Presentations 20%
	Final Presentation 20%
	Paper Writing 50% (English ONLY): Due by 6/17(Fri) by 5pm
	   - 10% Clearity/Completeness
	   - 30% Algorithm(efficiency, creativity)
	   - 10% Experimentation and Comparisons

Texts & References	
Instructor's Profile	Yang, Sung-Bong http://algo.yonsei.ac.kr
TA's Name & Contact Information	None
Syllabus in English	This course is to design efficient algorithms for selected problems in CS field. Students work as a small group of size 2-3 people or posssibly work individually depending on the class size. Each team works on finding a target problem, analyzing the problem, looking

into the related work, suggesting a solution/algorithm, implementing the
solution with programming, and finally writing a formal paper to be published
at a domestic or international journal, or an international conference.

Week	Period	Weekly Topic & Contents	Course Material Range & Assignments	Reference
1	2016-03-02 2016-03-08	Intorduction to the course		(3.2) Spring semester classes begin (3.4 - 3.8) Course add and drop period
2	2016-03-09 2016-03-15	How to write a paper		
3	2016-03-16 2016-03-22	Presentaion for Proposals I		
4	2016-03-23 2016-03-29	Presentaion for Proposals II		
5	2016-03-30 2016-04-05	Paper Presentation I		
6	2016-04-06 2016-04-12	Paper Presentation II		(4.4 - 4.6) Course withdrawal period, (4.8) First third of the semester ends
7	2016-04-13 2016-04-19	No class		(4.18 - 4.22) Midterm examinations
8	2016-04-20 2016-04-26	Presentation for Interim report I		(4.18 - 4.22) Midterm examinations
9	2016-04-27 2016-05-03	Presentation for Interim report II		
10	2016-05-04 2016-05-10	Paper Presentation III		(5.5)Children`s Day
11	2016-05-11 2016-05-17	Paper Presentation IV		(5.14) foundation day Buddha`s Birthday, (5.16) Two thirds of the semester ends
12	2016-05-18 2016-05-24	Paper Presentation V		
13	2016-05-25 2016-05-31	Paper Presentation VI		
14	2016-06-01 2016-06-07	Presentation for final report I		(6.6) Memorial Day
15	2016-06-08 2016-06-14	Presentation for final report II		(6.8 - 6.21) Self-Study and Final examinations Period
16	2016-06-15 2016-06-21	Paper Submission: Due by 6/17(Fri) by 5pm		(6.8 - 6.21) Self-Study and Final examinations Period

* Changes in Management of Academic Semester

During the midterm examinations (2022.10.20. - 10.26.) and final examinations (2022.12.15. - 12.21.) period, classes or self-study should be continued unless there is an exam scheduled during the week.

* According to the University regulation section 57-2, students with disabilities can request special support related to attendance, lectures,

assignments, or exams by contacting the course professor at the beginning of semester.Upon request, students can receive such support from the course professor or from the Center for Students with Disabilities(OSD). The following are examples of types of support available in the lectures, assignments, and exams:

(However, actual support may vary depending on the course.)

[Lecture]

- Visual Impairment: alternative, braille, enlarged reading materials, note-taker

- Physical Impairment: alternative reading materials, access to classroom, note-taker, assigned seat

- Hearing Impairment: note-taker/stenographer, recording lecture

- Intellectual Disability/Autism: note-taker, study mentor

[Assignments and Exam]

- Visual, Physical, Hearing Impairment: extra days for submission, alternative type of assignment, extended exam time, alternative type of exam, arranging separate exam room, and proctors, note-taker

- Intellectual Disability/Autism: personalized assignments, alternative type of evaluation

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Course Description

[Search   ]

↗ CSI8712 SPECIAL TOPICS IN ALGORITHM ANALYSIS

▷ Course Description

컴퓨터 관련 분야에서 제기되는 실질적인 문제해결을 위한 효율적인 알고리즘 디자인을 위하여, 문제 설정, 문제분석, related work 조사, 해결방안 토의, 프로그램 implementation, 논문작성의 단계를 차례로 수행함을 그 목표로함

This course is to design efficient algorithms for selected problems in computer related fields. Students work on finding a target problem, analyzing the problem, looking into the related work, suggesting a solution/algorithm, implementing the solution with programming, and finaly writing a formal paper.