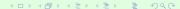
System Optimization Course Introduction

Hyunsoo Lee, Ph. D, Prof.

September 2, 2024

Outline

- 1. Announcement
 - 1.1. Announcement
 - 1.2. What you have to do
- 2 2. Prof. Info.
 - 2.1 Info I
 - 2.2 Info II
 - 2.3 Info III
- 3. Course Info.
 - 3.1. Course Overview
 - 3.2. Grade Policies
 - 3.3. Course Topics



Course Principle

Principle

- Don't be late at the beginning of each class
- Cheating behaviors have the greatest penalties
- Private usages of computers are prehibitied strongly.
- Don't ask silly questions
- Don't bother others

Homework-Homepage

- Make your own homepage
- Address: https://kitst.kumoh.ac.kr/∼ sURL/sys
 - \bullet ex) http://kitst.kumoh.ac.kr/ \sim s20231111/sys
- Your picture & "I keep the promises between Prof. and I"
- Due date : September 12th (Thursday) Midnight

Academic Career

- 1) 2006~2010 : Ph.D , Industrial & Systems Engineering, Texas A&M University
- 2) 2000~2002 : MS, Industrial & Production Engineering, POSTECH
- 3) 1993~1997 : BS. Industrial Engineering, SKKU

More Info.

• Prof. Homepage : http://kitlab.kumoh.ac.kr/~hsl



Professional Career

- 1) 10. 2021 \sim : Prof.
- 2) $09.2016 \sim$: Associate Prof.
- 3) 09.2011~08.2016 : Assistant Prof. / School of Industrial Engineering / Kumoh National Institute of Technology
- 4) 2010~2011 : Senior Manager, SCM Division, LG Electronics
- 5) 2009~2010 : Teaching Instructor, Texas AM University, USA
- 6) 2006~2019 : RA / TA, Texas AM University, USA
- 7) 2002~2006 : Advisory Consultant, Samsung SDS

Project

Project Info.

• Project Info : Refer Course Homepage

Course Overview

Course Info.

- Course No: IX0012-01/02
- Course Title : System Optimization
- Course Homepage : http://kitlab.kumoh.ac.kr/~hsl/courses/sysopt
- Course title
 - \bullet Course I : 10:00AM \sim 00:50 AM, Every Tuesday, G576-1
 - ullet Course II : 01:00PM \sim 03:50 PM, Every Tuesday, G576-1

- 3.1. Course Overview 3.2. Grade Policies
- 3.2. Grade Policies
 3.3. Course Topics

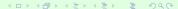
Grade Policies

Score Portion

Midterm I/II (30%) Final (35%) Quiz & Homework (20%)
 Attendance (10%) Attitude (5%)

Basic Policies

- 1) Survivor or not (Passion)
- 2) Attendance
- 3) Prior execuse for absenses (ill, care, job interview)
- 4) Don't miss Midterm/Final Exams
- 5) Don't interrupt class



- 3.1. Course Overview 3.2. Grade Policies
- 3.3. Course Topics

To be Covered

Topics

- 1) Systems and Processes
- 2) Systematic / Dynamic View
- 3) Intelligence, Deep Learning, and others
- 4) Linear / Nonlinear / Stochastic Programming
- 5) Reinforcement learning / Deep Reinforcement learning
- 6) Intelligent System

- 3.1. Course Overviev
 3.2. Grade Policies
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Maint Computer Programming Tools

Tools

- 1) Matlab / Simulink with Related Toolboxes
- 2) Python and Related libraries