Application Domains







System Innovation

System Design

System Engineering System Management

Methodologies

Optimization

Math. Programming

- Convex opt.
- Combinatorial opt.
- IP, MILP

DP / MDP / POMDP

- decision / control Heuristic / Meta-heuristic

...

Statistic/Stochastic

Data science
Data driven decision
Stochastic process
Queueing model
Quality engineering
Design of experiment
Bayesian / MCMC

Complex Sys. Mod.

Discrete event M & S Monte Carlo simulation Opt. via simulation Design of simulation exp. Simulation based control Geometric modeling Design methodology

As of year 2014, the department has 16 full-time faculty members, 6 emeritus professors, 4 joint appointment, and 2 invited guest professors. The department is continually recruiting new faculty members to reach 25 faculty members.

The department offers undergraduate, master and doctoral programs. The average numbers of undergraduate, master, and doctoral students each year are 40~50, 30~40, and 10~20, respectively. The graduates are working at almost every industry and research institutes. There are many successful graduates, including many CEOs and senior directors, especially in leading companies for consulting, information services, electronics & high-tech manufacturing, telecommunication/mobile communication services, and financial & investment services, national research institutes, and the government.