Introduction

There are a lot of very interesting applications of optimization that you all are working on for your course project, and I think it would be great for everyone to have a chance to see what real-life optimization problems other people have identified. It will also be beneficial for everyone to see what types of analyses people have done, and what type of insights have been gained from solving optimization problems. For some groups, these insights will relate mostly to their problem; other groups’ primary insights might involve optimization itself – what formulations work better than others, etc.

Assignment

During the last week of classes, I’d like each group to give a 5 minute presentation using three “slides”. (IMPORTANT: You should print your slides on regular white paper instead of transparencies, so that you can use the document camera to project them to the class and the TV-land students simultaneously.)

Slide 1: Problem description (in words) – tell us what problem you’ve been working on, and describe the major issues (constraints, objective, etc.) that you had to deal with.

Slide 2: Formulation and solution procedure – What’s your formulation? (You don’t have to talk about every single constraint, just the most interesting ones.) How did you solve the problem?

Slide 3: Analysis – What interesting conclusions were you able to draw that you didn’t know before? This can include insights about the problem, the solution, or even the process of formulation and optimization.

The presentation schedule is on the next page.
Schedule

Here’s the presentation schedule:

Monday December 3rd:

Group 1  (Andy Johnson, Marti Moore, Dara Suracharoenpong, T.T. Tunjoy)
Group 2  (Hong-En Chen, Eugene Lau, Joyce Lau)
Group 4  (Ramachandran Gopalakrishnan, Ashish Labroo, Rohan Reddy, Vikram Subramanian)
Group 5  (Champoo Apiruklaoskul, Hyeseung Jeong, Oran Kittithreerapronchhai, Winny Leowarin)
Group 6  (Vorapat Chavananikul, Vichai Meemongkolkiat, Thaisiri Watewai, William)
Group 7  (Fernando Naranjo, Hector Castro, Dida Ruiz)
Group 8  (Nitin Barge, JongPhil Kim, Kwang-won Kim, Grant Martin)
Group 9  (Devasia Karimpanal, Karthik Lakshman, Nirav Mehta, Dhiraj Ratnani)
Group 10 (Nita Bhave, Sriram Iyer, Swathy Ramaswamy)

Wednesday December 5th:

Group 11 (Om Prakash Chellakkani, Jayabharath Jagatheesan, Sid Shah, Hari Sivaprakasam)
Group 12 (Shantanu Anil Deo, Girish Gangan, Lalit Menghani)
Group 13 (Preeti Desai, Anthony Hillman, Ye Wang, Dick Ward)
Group 14 (Anar Jafarov, John Jung, Roberto Renjel, Stephen Watts)
Group 15 (Sara Brumberg, Yoann Crepet, Vincent Galea, Igor Ramoneda)
Group 16 (Luis Herrera, Ariel Jaduszliwer, Erika Rosand, Rebeca Sandino)
Group 17 (Sen Arumugam, Kunal Mashruwala, Yousef Shahulhameed, Vinay Uchil)
Group 18 (Amrith Anumolu, Alan Michaels, Hongbiao Sun, Chunyan Wang)