Intelligent Systems Programming

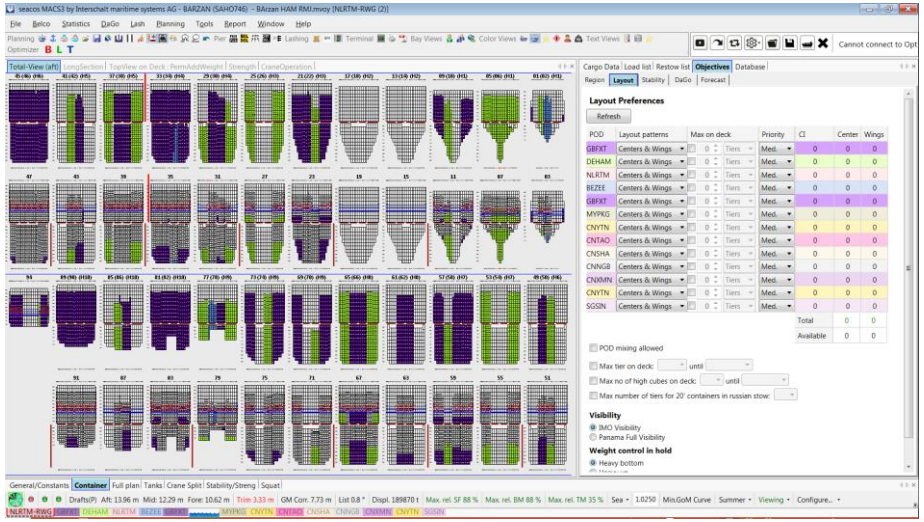
Lecture 1

Introduction to ISP

Today's Program

- 12:00-?: Introduction to ISP
  - Who are you?
  - Intelligent systems
  - Intended learning objectives
  - A word about prerequisites
  - Formalities
  - ISP schedule
  - Related specializations on SDT

Examples of Intelligent Systems



Intended Learning Outcomes

After the course, the student should be able to:

- Identify decision problems that can be solved or supported by AI and optimization algorithms.
- Apply advanced AI and optimization modeling techniques to describe these problems formally.
- Implement AI and optimization software components to solve these problems efficiently.
- Apply standard AI and optimization models and solvers.
- Participate in concept development of advanced decision support systems.

Prerequisites (do not apply to MTG)

- You must have passed
  - an elementary programming course.
  - an algorithms course
  - discrete math course

Overview of ISP

- 72 Students signed up (85 [2013], 74 [2014], 96 [2015])
  - SDT, MTG, SWU, Guest, PhD-student
- Course Manager: Rune Møller Jensen (`rmj`) 4D13
- Teaching Assistants:
  Jonas Kastberg (`jkas`)
  Jakob Merrild (`jmer`)
  Sigurt Bladt Dinesen (`sidi`)
- Format: 12 lectures, 10 recitations
  2 mandatory programming projects (out of 3 options)
  3 mandatory homework problems (out of 9-10 options)
- Written exam June TBA

ISP Schedule