Instructor
Eugene Lavretsky, eugene.lavretsky@boeing.com
Office Hours: By appointment.

Grading
Letter.

Prerequisites
Basic understanding of linear systems theory, nonlinear dynamics, and control methods. Ability to simulate dynamical systems in MATLAB.

Course Outline
The main goal of this course is to present a set of robust, optimal, and adaptive control concepts, their solutions and theoretical challenges for dynamical systems with incomplete measurements and uncertainties. Aerospace applications are discussed. The course material covers selected chapters from the course textbook [1]. Homework is assigned once a week. Mid-term and Final exams will be given.

Grading
Attendance 5%
Homework 40%
Midterm 25%
Final 30%

Course Textbook:

Supplementary Textbooks