

Course: ADVANCED TOPICS IN CONTROL AND DECISION

SCOPE

Select one or two of the following proposed topics:

- Adaptive control
- Fault detection and isolation
- Industrial control systems
- Nonlinear control
- Optimal control
- Robust control
- Networked control systems

For the selected topics:

1. Make a study, elaborating an adequate state of the art. If more than one topic is selected the connections between both topics must be underlined.
2. With the help of the teaching staff define, develop and solve an application problem.
3. Prepare a written report that must include the initial study, the problem statement, the solution developed and its validation.

EVALUATION CRITERIA

The evaluation criteria will take into account:

- The degree of understanding of the topics addressed
- Relevance of the application problem
- Complexity of the application problem and the features/performance of the solution
- Student autonomy
- Quality of the report and its discussion

TIMING

- The report should be delivered before 15-June.
- The work developed will be evaluated in a public session during which the student will do a short presentation of the work, followed by discussion. The public session will be held before the end of July.

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