Course Summary Assignment

Last Updated: January 4, 2013.

This final assignment of the course does not involve any problem solving but rather a summarizing writing task. The goal is to write a 3-5 page paper that briefly, yet precisely, describes some of the mathematical problems described in this course and methods of solution. It is important that your paper includes at least 80% of the problems described and solved during this course with emphasis on later Chapters 7–9.

You can use the course notes as a general path for your description. Any other way that you choose is also fine.

The paper needs to be self-contained in that it assumes no prior knowledge of “control theory” or “structured Markov models”. Nevertheless, you can assume that your reader knows anything found in the appendix. Further, the paper should not mention this specific summer school course and needs to appear like a self contained document. In this respect, you should reference some sources. An easy (and acceptable) choice would be one or more of the books suggested in this course.

The grading of this assignment is broken up as follows:

- **20% Precision and flawlessness:** Punctuation, English, consistency and having a general professional appearance (as though it was in a scientific journal).

- **30% Mathematical and technical correctness:** All statements (summaries of results) need to be precise and self contained within the paper (terms need to be defined - even if this is done very briefly).

- **30% Scope:** As described above, the requirement is that 80% of the general problems described and solved in the scope are (briefly) summarized.

- **20% Originality and touch:** Is your paper written in a smooth and original form?