

Current Topics available for Master Thesis:

- 1. A survey of the stochastic economic lot scheduling problem: theory and applications**
In this Master thesis, the student will review and classify the literature on the stochastic economic lot-scheduling problem. In this literature review, particular attention will be given to dynamic models. The student will then identify one particular subproblem of interest and compare 2-3 heuristics in a computational study.
- 2. Risk aversion in network revenue management**
In this Master thesis, the student will review and classify the literature on network revenue management. The student will then identify one particular subproblem of interest and compare 2-3 heuristics in a computational study.
- 3. Dynamic multi-project planning**
In this Master thesis, the student will review and classify the literature on dynamic multi-project planning. In this literature review, particular attention will be given to dynamic models. The student will then identify one particular subproblem of interest and compare 2-3 heuristics in a computational study.
- 4. Hotel revenue management**
In this Master thesis, the student will review and classify the literature on hotel revenue management. The student will then identify one particular subproblem of interest and compare 2-3 heuristics in a computational study.
- 5. Hotel revenue management: Data inputs**
In this Master thesis, the student will review and classify the literature on hotel revenue management. The student will then analyze a data set of a hotel and estimate parameters needed to run the models discussed.
- 6. Bus and train revenue management**
In this Master thesis, the student will review and classify the literature on revenue management for busses and trains. The student will then identify one particular subproblem of interest and compare 2-3 heuristics in a computational study.
- 7. Bus and train revenue management: Data inputs**
In this Master thesis, the student will review and classify the literature on hotel revenue management. The student will then analyze a data set of a bus or train company and estimate parameters needed to run the models discussed.
- 8. The nurse scheduling problem**
In this Master thesis, the student will review and classify the literature on nurse and doctor scheduling problems. The student will then identify one particular subproblem of interest and compare 2-3 models in depth, including a numerical study.