DM865 (10 ECTS)

Heuristikker og Approximationsalgoritmer

[Heuristics and Approximation Algorithms]

dm865.github.io

Spring semester
Lene Monrad Favrholdt • Marco Chiarandini
lektorer, IMADA

Course Formalities

Prerequisites:	✔ Programming (DM502, DM503, DM550)
	✔ Algorithms and Datastructures (DM507)
	✓ Complexity and Computability (DM508, DM553)
	✓ Linear and Integer Programming (DM559, DM545, DM554)
Semester:	3rd (but challenging), 5th, Master
Credits:	10 ECTS
Language:	English and Danish
Classes:	intro: $2h \times 24$; training: $2h \times 20$
Material:	slides + articles + lecture notes + starting code

Assessment (10 ECTS)

- Two practical project assignments passed/failed with internal censor by the teacher

- Oral exam based on:
    - the theoretical part
    - two practical assignments

  Grading by the danish 7-mark scale, external marking. Exam aids allowed.

Contents

	Apporx Algorithms	Local Search + Meta-heuristics
Set Cover		
Satisfiability		
Traveling Salesman		
Scheduling		
Knapsack		
Bin packing		
Bin Packing		

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