

Algorithm Engineering

(in German: Algorithm Engineering -)

Module-ID: FIN-INF-120259

Link:	LSF
Responsibility:	Prof. Dr. Stefan Schirra
Lecturer:	Prof. Dr. Stefan Schirra
Classes:	• Lecture <i>Algorithm Engineering</i>
Applicability in curriculum:	

Abbreviation	Credit Points	Semester	Term	Duration	Language	Level
AlgEng	6	Summer	ab 1.	1 Semester	english	Master

Intended learning outcomes:

Students learn how to conduct experimental work in algorithmic computer science. They understand how to bridge the gap between theoretical research and practice by methods of Algorithm Engineering which combine design, analysis, implementation and experiments.

Content:

- Realistic computer models
- C++ software libraries
- algorithm design paradigms
- certifying algorithms
- literate programming
- designing and conducting experiments
- case studies in algorithm engineering
- implementation project

Workload:

- 56 h lecture

- 124 h independent work

Type of examination:	Teaching method / lecture hours per week (SWS):
Oral examination	Lecture 4 SWS

Prerequisites according to examination regulations:	Recommended prerequisites:
none	Basic knowledge of algorithms and data structures

Media:	Literature:
	• Müller-Hannemann, Schirra (eds): Algorithm Engineering, Springer LNCS 5971 • C. McGeoch: Algorithm Engineering

Comments:

Wird vermutlich nicht mehr angeboten werden

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