

Computational Geometry

(in German: Computational Geometry -)

Module-ID: FIN-INF-102201

Link:	LSF
Responsibility:	Prof. Dr. Stefan Schirra
Lecturer:	Prof. Dr. Stefan Schirra
Classes:	Lectures and exercises <i>Computational Geometry</i>
Applicability in curriculum:	

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

Intended learning outcomes:

Students know how to design and analyze algorithms for advanced geometric problems. They understand the basics of combinatorial and algebraic geometry.

Content:

- basics in combinatorial geometry
- basics in algebraic geometry
- duality
- algorithm design paradigms

Workload:

56 h classroom + 124 h independent work

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

Prerequisites according to examination regulations:	Recommended prerequisites:
keine	Basics in algorithmic geometry (for example, bachelor modul Grundzüge der Algorithmischen Geometrie)

Media:	Literature:
	• de Bergm Cheong, van Kreveld, Overmars; Computational Geometry • Devadoss, O'Rourke; Computational Geometry

Comments:

Revision #1

Created 2025-06-23 08:42:49 UTC by Fakultät für Informatik

Updated 2025-07-17 01:40:32 UTC by Fakultät für Informatik