Advanced Algorithmics - Data Structures

Lecturers: Lars Arge, Gerth Brodal

Data Structures

- Dynamic Sequence Equality
  - Dynamic Trees
  - Van Emde Boas Trees
- Splay Trees
- B-trees
  - External Internal Trees
  - KD-B-Trees
- Buffer Trees
- Segment Trees

Binary Space Partitions

- Skip Lists
- Trees
- 2-Level Hashing
- Hashing

Union-Find

- Linked Lists
- Heaps
- Queue
- Stack
- Array
- Trees

- 2,4-Trees
- Suffix Trees
- Suffix Arrays
- Red-Black Trees

Evaluation: Implementation & Theory
Projects: 40% from 1 to 3
