Preface

The goal of this book is to provide our readers with basic theoretical and practical knowledge in data structures and algorithms. We will teach you facts, concepts, techniques and methods, attitudes, TODO

Teach facts: dictionaries can be implemented with ...

Teach concepts: average, worst case, amortized running time, program checking, abstract data types vs. implementations, separation of concern,

Teach techniques and methods: probabilistic analysis

Teach attitudes: separation of concern.

Teach systems: LEDA, CGAL, CPLEX, ABACUS

You can enter the web-site for this course at

`http://www.mpi-sb.mpg.de/ mehlhorn/Informatik5.html`

Programs: This book contains a lot of programs and tables. The programs on the one hand illustrate concepts and on the other hand drive the discussion forward. You can read this book without running the programs. You will miss a lot, if you do so. You will learn a lot more and you will develop a more intuitive grasp of the material if you run the programs yourself. So please do. All programs are available at

`http://www.mpi-sb.mpg.de/ mehlhorn/ftp/Info5/Programs`

The programs require LEDA (Library of Efficient Data Types and Algorithms). LEDA gives access to all data structures and algorithms treated in this book and to many more. LEDA can be down loaded from the LEDA web-site:

`http://www.mpi-sb.mpg.de/LEDA/leda.html`