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Optimise it further by applying similar strategies as offered in chapters 8 and 9.

The Pernambuco School on Software Engineering (PSSE) 2007 was the second in a

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series of events devoted to the study of advanced computer science and to the promotion of international scientific collaboration. The main theme in 2007 was testing. Testing is nowadays a key activity for assuring

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software quality. The summer school and its proceedings were intended to give a detailed tutorial introduction to the scientific basis of this activity and its state of the art. These proceedings rec

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sufficiently self-contained to  
be read in isolation.  
Nevertheless, Chap. 1 should  
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Chapter 1 introduces the



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terminology adopted in this book. It also provides an overview of the testing process, and of the types (functional, structural, and so on) and dimensions (unit, integration, and so on) of the testing activity. The main strategies

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employed in the central activity of test selection are also discussed. Most of the material presented in this introductory chapter is addressed in more depth in the following chapters.

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Flowcharts and path testing.

Path testing and transaction

flows. Graphs, paths and

complexity. Paths, path

products, and regular

expressions. Data validation

and syntax testing. Data-

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