

Preface

Shape understanding remains one of the most intriguing problems in computer vision and human perception. This book is a collection of chapters on shape analysis, by experts in the field, highlighting several viewpoints, including modeling and algorithms, in both discrete and continuous domains. It is a summary of research presentations and discussions on these topics at a Dagstuhl workshop in April 2011.

The content is grouped into three main areas:

Part I – Discrete Shape Analysis

Part II – Partial Differential Equations for Shape Analysis

Part III – Optimization Methods for Shape Analysis

The chapters contain both new results and tutorial sections that survey various areas of research.

It was a pleasure for us to have had the opportunity to collaborate and exchange scientific ideas with our colleagues who participated in the Dagstuhl Workshop on Shape Analysis and subsequently contributed to this collection. We hope that this book will promote new research and further collaborations.

Cottbus, Haifa and Athens

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Innovations for Shape Analysis

Models and Algorithms

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