

# Preface

Extracting image features has become a major player in many image pertaining applications. Feature detectors and descriptors have been investigated and applied in various domains such as computer vision, pattern recognition, image processing, biometrics technology, and medical image analysis. Driven by the need for a better understanding of the feature detector foundations and application, this book volume presents up-to-date research findings in the direction of image feature detectors and descriptors.

This book includes 16 chapters that are divided into two parts. Part I details the “Foundations of Image Feature Detectors and Descriptors” by four chapters. The rest of the 16 chapters, 11 chapters, are grouped in Part II for covering the “Applications of Image Feature Detectors and Descriptors.” Additionally, “[Detection and Description of Image Features: An Introduction](#)” is placed in the beginning of the volume for offering an introduction for all the chapters in the two parts of the volume.

This book has attracted authors from many countries from all over the world such as Egypt, Canada, India, Mexico, and Romania. The authors of accepted chapters are thanked by the editors for revising their chapters according to the suggestions and comments of the book reviewers/editors.

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Foundations and Applications

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