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Computer Vision, Imaging and Computer Graphics – Theory and Applications

12th International Joint Conference, VISIGRAPP 2017
Porto, Portugal, February 27 – March 1, 2017
Revised Selected Papers

Springer

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Preface

The present book includes extended and revised versions of a set of selected papers from the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2017), held in Porto, Portugal, from February 27 to March 1, 2017.

The purpose of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2017) was to bring together researchers and practitioners interested in both theoretical advances and applications of computer vision, computer graphics, and information visualization. VISIGRAPP is composed of four co-located conferences, each specialized in at least one of the aforementioned main knowledge areas.

VISIGRAPP 2017 received 402 paper submissions from 48 countries, of which 4% are included in this book. The papers were selected by the event program co-chairs, based on a number of criteria that include the reviews and suggested comments provided by the Program Committee members, the session chairs' assessments, and also the program chairs' global view of all papers included in the technical program. The authors of selected papers were invited to submit a revised and extended version of their papers having at least 30% new material.

The papers selected to be included in this book contribute to the understanding of relevant trends of current research on Image and Video Formation, Preprocessing, Analysis and Understanding; Motion, Tracking and Stereo Vision; Computer Graphics and Rendering; Data Visualization and Interactive Visual Data Analysis; Agent-Based Human–Robot Interactions; and User Experience. The richness and the variety of theoretical advances and research results highlighted by these selected papers reflect the vitality and the prevalence of the research areas covered by the VISIGRAPP conference.

We would like to thank all the authors for their contributions to this book and also to the reviewers who helped ensure the quality of this publication.

February 2019

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