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Computer Vision, Imaging and Computer Graphics Theory and Applications

15th International Joint Conference, VISIGRAPP 2020
Valletta, Malta, February 27–29, 2020
Revised Selected Papers

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Preface

The present book includes extended and revised versions of a set of selected papers from the 15th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2020), held in Valletta, Malta during February 27–29, 2020.

VISIGRAPP 2020 received 455 paper submissions from authors in 58 countries, of which 6% were included in this book. The papers were selected by the event chairs and their selection is based on a number of criteria that include the classifications and comments provided by the Program Committee members, the session chairs' assessment, and also the program chairs' global view of all papers included in the technical program. The authors of selected papers were then invited to submit revised and extended versions of their papers having at least 30% innovative material.

The purpose of VISIGRAPP is to bring together researchers and practitioners interested in both theoretical advances and applications of computer vision, computer graphics, information visualization, and human-computer interaction. VISIGRAPP is composed of four co-located conferences, each specializing in at least one of the aforementioned main knowledge areas.

The papers selected to be included in this book contribute to the understanding of relevant trends of current research on computer vision, imaging and computer graphics theory and applications, including the following: deep learning, action recognition, face and gesture recognition, pose estimation, human-aware navigation, mobile robots, dense prediction, pedestrian safety, first-person vision, image-to-image translation, range sensing, high- and super-resolution, fusion methods, human-computer interaction, lighting and appearance, real-time rendering, 3D model repair and scene reconstruction, modeling of natural scenes and phenomena, scene and object modeling, surface modeling, advanced user interfaces, graphical interfaces, virtual and augmented reality, human figure and facial animation, real-time animation and simulation, visual data analysis and knowledge discovery, high-dimensional data and dimensionality reduction, scientific visualization, and text and document visualization.

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

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