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Alexis Paljic · Tabitha Peck ·
Christophe Hurter · Helen Purchase ·
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Petia Radeva · Kadi Bouatouch (Eds.)

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1691

Computer Vision, Imaging and Computer Graphics Theory and Applications

16th International Joint Conference, VISIGRAPP 2021
Virtual Event, February 8–10, 2021
Revised Selected Papers

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Preface

This book includes extended and revised versions of a set of selected papers from the 16th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2021), that was exceptionally held as an online event, due to COVID-19, on February 8–10, 2021.

The purpose of VISIGRAPP is 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, namely GRAPP, IVAPP, HUCAPP and VISAPP.

VISIGRAPP 2021 received 371 paper submissions from 53 countries, of which 4% were included in this book.

The papers were selected by the event chairs and their selection is based on a number of criteria, including 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 a revised and extended version of their papers having at least 30% innovative material.

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: Deep Learning for Visual Understanding, High-Dimensional Data and Dimensionality Reduction, Information Visualization, Interactive Systems for Education and Training, Machine Learning Technologies for Vision, Software Visualization, Visualization Applications, Evaluation Paradigms and Frameworks, Early and Biologically-Inspired Vision, Deep Learning for Tracking, Impact of Avatar Representation in Virtual Reality-Based Simulations, and Techniques for Automatic 3D Cities Modeling.

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

February 2021

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Panayiotis Vlamos	Ionian University, Greece
Frank Wallhoff	Jade University of Applied Science, Germany
Tao Wang	BAE Systems, USA
Wen-June Wang	National Central University, Taiwan, Republic of China
Laurent Wendling	Paris Descartes University, France

Christian Wöhler	TU Dortmund University, Germany
Pengcheng Xi	National Research Council Canada, Canada
Jiangjian Xiao	Ningbo Institute Material Technology & Engineering, CAS, China
Alper Yilmaz	Ohio State University, USA
Jang-Hee Yoo	ETRI, Korea, Republic of
Sebastian Zambanini	TU Wien, Austria
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Rameez Ur Rahman	University of Rome, Sapienza, Italy

Invited Speakers

Federico Tombari	Google and Technical University of Munich (TUM), Germany
Dieter Schmalstieg	Graz University of Technology, Austria
Nathalie Henry Riche	Microsoft Research, USA

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