

# **VISIGRAPP 2016**

## **Final Program and Book of Abstracts**

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11th International Joint Conference on Computer Vision, Imaging  
and Computer Graphics Theory and Applications

Rome - Italy  
February 27 - 29, 2016

**Sponsored by**

INSTICC - Institute for Systems and Technologies of Information, Control and Communication

**In Cooperation with**

ACM SIGGRAPH - ACM Special Interest Group on Graphics and Interactive Techniques

AFIG - Association Française d'Informatique Graphique

Eurographics - European Association for Computer Graphics

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IEEE VGTC - IEEE Technical Community on Visualization and Graphics

IEEE CS - TCMC - IEEE Technical Committee on Multimedia Computing



## Foreword

On behalf of the organizing committee, we welcome you to the 11th International Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2016) which was organized and sponsored by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), in cooperation with ACM SIGGRAPH, AFIG and Eurographics, and technically co-sponsored by IEEE Computer Society, IEEE Visualization and Graphics Technical Committee and IEEE Technical Committee on Multimedia Computing.

The proceedings here published demonstrate new and innovative solutions and highlight technical problems in each field that are challenging and worthwhile being disseminated to the interested research audiences.

VISIGRAPP 2016 was organized to promote a discussion forum between researchers, developers, manufacturers and end-users, about the conference's research topics and to establish guidelines in the development of more advanced solutions.

We received a high number of paper submissions for this edition of VISIGRAPP, 349 in total, with contributions from all five continents. This attests to the success and global dimension of VISIGRAPP. To evaluate each submission, we used a double-blind evaluation method and each paper was reviewed by two to six experts from the International Program Committee.

The IPC selected for oral presentation and for publication as full papers 12 papers from GRAPP, 10 papers for IVAPP, and 50 papers for VISAPP, which led to a result for the full-paper acceptance ratio of 21% and a high-quality program. Apart from the above full papers, the conference program also features 91 short papers and 66 poster presentations. We hope that these conference proceedings, which are submitted for indexation by Thomson Reuters Conference Proceedings Citation Index, INSPEC, DBLP, and EI, will help the Computer Vision, Imaging, and Computer Graphics communities to find interesting research work. Moreover, we are proud to inform that the program also includes four plenary keynote lectures, given by internationally distinguished researchers, namely Torsten Möller (University of Vienna, Austria), Vittorio Murino (Istituto Italiano di Tecnologia, Italy), Dieter Schmalstieg (Institute for Computer Graphics and Vision at Graz University of Technology, Austria) and Gilles Bailly (CNRS institute and Telecom ParisTech Laboratory, France), thus contributing to increase the overall quality of the conference and to provide a deeper understanding of the conference's interest fields.

Furthermore, a short list of the presented papers will be selected to be expanded into a forthcoming book of VISIGRAPP Selected Papers to be published by Springer during 2016 in the CCIS series. All papers presented at this conference will be available at the SCITEPRESS Digital Library. Two awards are delivered at the closing session, to recognize the best conference paper and the best student paper.

We would like to express our thanks, first of all, to the authors of the technical papers, whose work and dedication made possible to put together a program that we believe to be very exciting and of high technical quality. Next, we would like to thank the Area Chairs, all the members of the program committee and auxiliary reviewers, who helped us with their expertise and time. We would also like to thank the invited speakers for their invaluable contribution and for sharing their vision in their talks. Special thanks should be addressed to the INSTICC Steering Committee whose invaluable work made this event possible.

We wish you all an exciting conference and an unforgettable stay in Rome, Italy. We hope to meet you again for the next edition of VISIGRAPP, details of which are available at <http://www.visigrapp.org>.

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