

# Preface

We are very happy to present the contributions accepted for the 17th international Conference on Computer Analysis of Images and Patterns (CAIP 2017), which was held at Ystad Saltsjöbad, Ystad, Sweden, August 22–24.

CAIP 2017 was the 17th in the biennial series of conferences, which is devoted to all aspects of computer vision, image analysis and processing, pattern recognition, and related fields. Previous conferences were held, for instance, in Valletta, York, Seville, Münster, Vienna, Paris, etc. The contributions for CAIP 2017 were carefully selected based on a minimum of two but mostly three reviews. Among 144 submissions 72 were accepted, leading to an acceptance rate of 50%.

The conference included a tutorial on “Pose Estimation” by Anders G. Buch and a workshop on “Recognition and Action for Scene Understanding” (REACTS). Three keynote talks provided by world-renowned experts in the area of robotics (Markus Vincze), machine learning (Christian Igel), and image and video processing (Alan Bovik) were additional highlights.

The program covered high-quality scientific contributions in 2D-to-3D, 3D vision, biomedical image and pattern analysis, biometrics, brain-inspired methods, document analysis, face and gestures, feature extraction, graph-based methods, high-dimensional topology methods, human pose estimation, image/video indexing and retrieval, image restoration, keypoint detection, machine learning for image and pattern analysis, mobile multimedia, model-based vision, motion and tracking, object recognition, segmentation, shape representation and analysis, and vision for robotics.

CAIP has a reputation of providing a friendly and informal atmosphere, in addition to high-quality scientific contributions. We focused on maintaining this reputation, by designing a stimulating technical and social program that was hopefully inspiring for new research ideas and networking. We also hope that the venue at Ystad Saltsjöbad contributed to a fruitful conference.

We thank the authors for submitting their valuable work to CAIP. This is of course of prime importance for the success of the event. However, the organization of a conference also depends critically on a number of volunteers. We would like to thank the reviewers and the Program Committee members for their excellent work. We also thank the local Organizing Committee and all the other volunteers who helped us organize CAIP 2017.

We hope that all participants had a joyful and fruitful stay in Ystad.

August 2017

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Computer Analysis of Images and Patterns  
17th International Conference, CAIP 2017, Ystad,  
Sweden, August 22-24, 2017, Proceedings, Part I  
Felsberg, M.; Heyden, A.; Krüger, N. (Eds.)  
2017, XVI, 413 p. 156 illus., Softcover  
ISBN: 978-3-319-64688-6