



Fifth Croatian  
Computer Vision Workshop

October 11, 2016, Osijek, Croatia

PROCEEDINGS

OF

CCVW

2016



University of Zagreb  
Center of Excellence  
for Computer Vision

# CCVW 2016

Proceedings of the Croatian Computer Vision Workshop

Osijek, Croatia, October 11, 2016

S. Lončarić, R. Cupec (Eds.)

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CCVW 2016

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Publisher

University of Zagreb Faculty of Electrical Engineering and Computing  
Unska 3, HR-10000 Zagreb, OIB: 57029260362

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ISSN 1849-1227

Proceedings of the Croatian Computer Vision Workshop, Year 4  
October 11, 2016, Osijek, Croatia

# Preface

On behalf of the Organizing Committee it is our pleasure to invite you to Osijek for the 5<sup>th</sup> Croatian Computer Vision Workshop. This year, the Workshop will be organized in the beautiful town of Osijek at the Faculty of Electrical Engineering, Computer Science and Information Technology, Josip Juraj Strossmayer University of Osijek, Croatia.

The objective of the Workshop is to bring together professionals from academia and industry in the area of computer vision theory and applications in order to foster research and encourage academia-industry collaboration in this dynamic field. The Workshop program includes oral and poster presentations of original peer reviewed research from Croatia and elsewhere. Furthermore, the program includes invited lectures by distinguished international researchers presenting state-of-the-art in computer vision research. Workshop sponsors will provide a perspective on needs and activities of the industry. Finally, one session shall be devoted to short presentations of activities at Croatian research laboratories.

The Workshop is jointly organized by the Center of Excellence for Computer Vision, University of Zagreb and by the Faculty of Electrical Engineering, Computer Science and Information Technology, Josip Juraj Strossmayer University of Osijek. This year, for the first time, the Workshop has been organized under the auspices of the Croatian Academy of Engineering.

Osijek is a beautiful European city with many cultural and historical attractions, which we are sure all participants will enjoy. We look forward to meet you all in Osijek for the 5<sup>th</sup> Croatian Computer Vision Workshop.

October 2016

Sven Lončarić, General Chair

Robert Cupec, Technical Program Chair

# Acknowledgements

The 2016 5<sup>th</sup> Croatian Computer Vision Workshop (CCVW) has been organized under the auspices of the Croatian Academy of Engineering.

The Workshop is the result of the committed efforts of many volunteers. All included papers are results of dedicated research. Without such contribution and commitment this Workshop would not have been possible.

Program Committee members and reviewers have diligently reviewed submitted papers and provided extensive reviews which will be an invaluable help in future work of collaborating authors. Managing the electronic submissions of the papers, the preparation of the abstract booklet and of the online proceedings also required substantial effort and dedication that must be acknowledged. The Local Organizing Committee members did an excellent job to guarantee a successful outcome of the Workshop.

We are grateful to the Technical Co-Sponsors, IEEE Croatia Section and its four Chapters (CIS11, C16, SP01, SMC28), who helped us in granting the high scientific quality of the presentations.

We are also grateful to the sponsors The Foundation of the Croatian Academy of Sciences and Arts and Visage Technologies that financially supported this Workshop.

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