Preface

Welcome to the Workshops and Demonstrations proceedings of the 12th European Conference on Computer Vision, held during October 7–13, 2012 in Florence, Italy. We are delighted that the main ECCV 2012 was accompanied by 21 workshops and 22 demonstrations.

We received 38 workshop proposals on diverse computer vision topics. The evaluation process was not easy because of the high quality of the submissions, and the final 21 selected workshops complemented the main conference program. They were mostly one-day workshops, with a few limited to half day, and one workshop lasting one day and a half. In the end, the addressed workshop topics constituted a good mix between novel current trends and traditional issues, without forgetting to address the fundamentals of the computational vision area.

On Sunday, October 7, three workshops took place: the 5th Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment (NORDIA), the First Workshop on Visual Analysis and Geo-Localization of Large-Scale Imagery, and the Workshop on Web-scale Vision and Social Media.

The majority of the workshops were held on Friday 12 and Saturday 13. On October 12 we had nine workshops: WebVision, the Workshop on Computer Vision for the Web, with only invited speakers, the traditional PASCAL Visual Object Classes Challenge 2012 (VOC2012) Workshop, the 4th International Workshop on Video Event Categorization, Tagging and Retrieval (VECTaR 2012), the First International Workshop on Re-Identification (Re-Id 2012), the Workshop on Biological and Computer Vision Interfaces, also with only invited speakers, VISART, "Where Computer Vision Meets Art" Workshop, the Second Workshop on Consumer Depth Cameras for Computer Vision (CDC4CV), the Workshop on Unsolved Problems in Optical Flow and Stereo Estimation, and the "What's in a Face?" Workshop.

On October 13, ten workshops were held: The remaining half day of the WebVision Workshop, the 4th Color and Photometry in Computer Vision Workshop, the Third Workshop on Computer Vision in Vehicle Technology: From Earth to Mars, the Second Workshop on Parts and Attributes, the Third IEEE International Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams (ARTEMIS 2012), the First Workshop on Action Recognition and Pose Estimation in Still Images, the Workshop on Higher-Order Models and Global Constraints in Computer Vision, the Workshop on Information Fusion in Computer Vision for Concept Recognition, the QU3ST Workshop "2.5D Sensing Technologies in Motion: The Quest for 3D", and the Second International Workshop on Benchmarking Facial Image Analysis Technologies (BeFIT 2012).

We hope that participants enjoyed the workshops, together with the associated 179 papers included in these volumes.

Following the tradition of the major conferences in the field, ECCV 2012 was also proud to host live demonstrations given by companies and academic research groups. These were presented during the days of the main conference and are described in detail in the papers of the last volume.

Presenting a demo is one of the most concrete and exciting ways of demonstrating results of research and providing strong interaction between researchers, practitioners, and scholars in many topics, both theoretical and practical, of computer vision.

Among the proposed demos, submitted with a four-page summary together with slides, videos and rich supplementary material, after peer-review, we selected 22 demos on different subjects spanning topics such as biometry, content-based retrieval, classification and categorization, vision for computer graphics, 3D vision for interfaces, tracking and pose estimation, gesture analysis for human–computer interaction, text recognition, augmented reality, surveillance, and assisted driving.

Demos were presented by authors coming from different nations of Europe (Czech Republic, France, Germany, Italy, The Netherlands, Spain, Switzerland, and UK) and of the rest of the world (Australia, China, Japan, Taiwan, and USA).

The best demo was selected based on the scientific value and the technical presentation as well as the success in researcher interaction during the Demo Sessions.

We believe the scientific prototypes and the technical demonstrations presented at ECCV 2012 will contribute to strengthen the great success of computer vision technologies in industrial, entertainment, social, and everyday applications.

Finally, we would like to thank the individual chairs of each workshop (listed in the respective workshop programs) for soliciting and reviewing submissions, and the demo proposers, who made it possible to build such a rich supplementary program beside the main ECCV 2012 scientific plan.

October 2012

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