

**W11 – 9th International Workshop  
on Human Behavior Understanding**

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The 9th edition of the International Workshop on Human Behavior Understanding was organized to foster research on how to generate visual data (both still images and videos) describing human behavior, both from application and methodological points of view. Indeed, on the one side we expected contributions demonstrating the importance of human behavior generation methods for various applications (autonomous systems, surveillance, etc.) as well as contributions showing that synthesizing behavioural patterns can improve the accuracy of current systems on traditional computer vision tasks (activity recognition, face recognition, group and crowd behavior analysis, etc.). On the other side, we also aimed to promote methodological contributions to enhance the effectiveness of generative methods and boost their capacity.

The opening keynote talk was given by Stefanos Zafeiriou (Imperial College London), who discussed the problem of estimating affect in the wild, and the role of proper data for addressing this problem. In particular, Stefanos described recent research efforts to collect and annotate unscripted spontaneous facial behavior in arbitrary recording conditions with the ultimate goal of moving affective computing methods from laboratory controlled conditions to more realistic conditions, i.e. *in the wild*. A second invited talk was given by Michael Black (Max Planck Institute) on learning to be a digital human. Michael discussed the current state-of-the-art in capturing, modeling, and animating realistic 3D human bodies. The key idea is the possibility of creating virtual humans that look and behave in ways that are indistinguishable from real people.

We have received 21 high quality submissions, from which we accepted 15, following the reviewers' recommendations. Each paper was reviewed by at least two members of the technical program committee, in double-blind fashion. Among the accepted submissions, five were presented in an oral session, as well as in a poster format, and nine were presented only as poster. One submission was not presented due to VISA issues of the authors and it is not included in the proceedings. The workshop was attended by over 110 participants. A follow-up special issue on the focus theme of the workshop is being edited in the *International Journal of Computer Vision*. We thank our program committee members, authors, and participants for making this workshop a very successful event.

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Xavier Alameda-Pineda  
Elisa Ricci  
Albert Ali Salah  
Nicu Sebe  
Shuicheng Yan