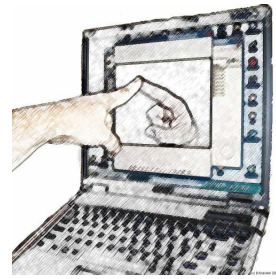# HCI2011

IEEE International Workshop on Human-Computer Interaction: Real-time vision aspects of natural user interfaces

November 7, 2011, Barcelona, Spain, in conjunction with [ICCV 2011](http://disi.unitn.it/~sebe/HCI2011/) *.*
http://disi.unitn.it/~sebe/HCI2011/

Important Dates:

Submission	July 7, 2011
Notification	August 25, 2011
Camera ready	September 11, 2011
HCI2011 date	November 7, 2011

Organizers:

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Nicu Sebe, University of Trento
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Program Committee:

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Wim Fikkert, Nedap
Desney Tan, Microsoft Research
Andrew Zisserman, University of Oxford
Ognjen Arandjelovic, Univ. of Cambridge
Kerstin Dautenhahn, Univ. of Hertfordshire

Papers describing high-quality original research in various areas of human-computer interaction are welcome. In light of the recent introduction of natural user interfaces as part of various consumer products, the intention is to give this year workshop a special focus on practical issues of designing HCI systems. Therefore, submissions related to the following topics will be particularly encouraged:

Robustness:
- vision algorithms robust to light, occlusions, view point, etc.
- increasing robustness by combining different sensors (e.g. multiple cameras, depth, infrared, inertial, audio)
- evaluation and comparison of algorithms and systems

Real-time implementation:
- efficient algorithms and implementation
- implementation on embedded platforms: field programmable gate arrays (FPGAs), programmable digital signal processors (DSPs), graphics processing units (GPUs), and various kinds of heterogeneous multiprocessor devices, etc.
- performance analysis and comparison (e.g. latency, system power consumption, wireless and other device communication issues)

Other practical issues:
- automatic adaptation to the user and environment (e.g. on-line learning, auto calibration)
- design, performance analysis and comparison of human-computer interaction systems (Wizard of Oz and real-system HCI user studies)
- novel applications and standardization

Selected workshop papers will be considered for a special issue of International Journal of Computer Vision (IJCV).

Demos are also welcome. Please contact the organizers at:
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The workshop will close with a panel discussion including a number of leading industry figures. The latest information will be posted at the workshop website.