

VRST 2006

ACM Symposium on Virtual Reality Software and Technology

Special session on “Haptics in Virtual Reality”

Session description

A special session on “*Haptics in virtual reality*” will be organised as part of the ACM VRST conference 2006.

Haptics plays an important role in simulations in Virtual Environments where physical interaction represents a fundamental issue. Integration of haptic feedback in immersive Virtual Environments poses several challenges in terms of performance, fidelity of simulation, breaks in presence and immersion.

The aim of this special session is to gather scientists working in the area of haptics and VR to present and discuss new advances in tools and technologies for integration of haptic interfaces and systems in immersive touch-enabled Virtual Environments and evaluation of haptic feedback within VR based applications. The session will address also the topics of multisensorial interaction in Virtual Environments, surface and voxel based haptic rendering of complex datasets, physically based modelling of haptic interaction, touch mediated social interaction in Virtual Environments, with special emphasis on new paradigms of interaction and applications. Topics of interest will address, but are not limited to, the following scientific areas:

- Haptic interfaces, haptic-auditory and haptic-vision interfaces
- Human computer multisensory interaction in Virtual Environments
- Surface and voxel based haptic rendering
- Haptic interaction with virtual avatars and physically based models
- Applications in VR

Format

The session will be composed of four selected presentations, supported by accepted papers. Short and long versions will be considered. Submitted papers need to be original, unpublished work and will undergo a regular peer-review process before acceptance by an international panel of reviewers. Accepted papers will be published in the VRST proceedings.

Please follow the submission guidelines provided at <http://www.vrst.ploegos.com/submission.htm>
Papers are to be submitted directly to Antonio Frisoli, a.frisoli@sssup.it.

An area will be arranged for upload if the size of the submission is larger than 3Mb. Each manuscript submission may be accompanied with multimedia material.

Important dates

Paper submission June 19th, 2006

Notification of acceptance July 17th, 2006

Camera ready due: August 8th, 2006

Conference: November 1st – 3rd, 2006

Session chairs

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