Low Latency Rendering and Scene Simplification

Low latency rendering

Our prototype system accomplishes a combined rendering and display latency of 8ms by rendering just ahead of the raster beam.

Dynamic Scene Simplification

To use our system in a mobile, wearable system we need to reduce the number of polygons being transmitted to and rendered in the wearable system drastically.

Latency Layering

The image is updated only 10 ms after a user moves, but with only an approximate image. More accurate updates are sent over the mobile link after 100 ms and 1 second.

W.Pasman@twi.tudelft.nl

Ubicomp is an interfacultary research program at TU-Delft, with participation of the Faculties Information Technology and Systems, Applied Sciences, Geo Sciences, and Industrial Design.
Contact: W.Pasman@twi.tudelft.nl
http://www.ubicom.tudelft.nl