

laden gemeinsam zum

GASTVORTRAG

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“Rendering and beyond: Applications of GPUs”

Abstract:

In the last decade, the computational power of GPUs developed rapidly and exceeded Moore's law. A high number of cores, wide SIMD parallelism and hyperthreading result in enormous peak performance. However, exploiting this power requires novel algorithms and data structures. Since GPU architectures also have a big impact on future CPUs, many of these novel techniques will also become relevant for non-graphics applications, from high performance computing to data bases. In the talk, we will report on the deployment of GPUs for various applications, from traditional rendering to object retrieval.

Biography:

Since 2002, Marc Stamminger is professor for computer science and visualization at the University of Erlangen-Nuremberg, Germany. Before, he worked as a computer graphics researcher at MPI Informatik, Saarbrücken and INRIA Sophia-Antipolis, and was a lecturer at the Bauhaus-University in Weimar. His research focus is interactive rendering and global illumination, mainly on modern GPU architectures.

Datum: 27. November 2009 10:00 Uhr s.t.

Ort: TU Wien, Favoritenstr. 9, Stiege 1, 5. Stock, Seminarraum E186

