

Fachbereich Computerwissenschaften

EINLADUNG zum Gastvortrag am

Donnerstag, 24. Jänner 2008, 16:00 Uhr, T02
Institutsgebäude Jakob-Haringer-Str. 2, Itzling

von

Ao. Univ.-Prof. Dr. Siegfried Benkner
University of Vienna
Institute of Scientific Computing

zum Thema:

Virtualizing Scientific Applications and Data Sources as Grid Services

Abstract:

Service-oriented Grid computing promises to change the way scientists will tackle future research challenges by offering data and compute services that provide transparent access to distributed heterogeneous data sources and to high-end computing facilities for performing computationally demanding modelling, simulation and analysis tasks.

VGE, developed at the University of Vienna, is a service-oriented infrastructure for virtualizing compute-intensive scientific applications as well as distributed data sources as Grid services that can be securely accessed on demand via the Internet without having to deal with low-level details of the underlying software and hardware infrastructures. VGE is based on standard Web Services and Grid technologies and offers an infrastructure for the provision, deployment and management of compute and data services.

In this talk we will provide an overview of VGE and outline its utilization within the EU Project Aneurist, which aims to create an advanced biomedical IT infrastructure for the management of all processes linked to research, diagnosis and treatment development for complex and multi-factorial diseases encompassing data repositories, computational analysis services and information systems handling multi-scale, multi-modal information at distributed sites. A special focus will be put on QoS support for time-critical computational services as well as on mechanisms towards automatic integration of distributed heterogeneous data sources.

Univ.-Prof. Dr. Marian Vajteršic (Host)

O. Univ.-Prof. Dr. Peter Zinterhof (Fachbereichsleiter)
Fachbereich Computerwissenschaften