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Institut für Softwaretechnik
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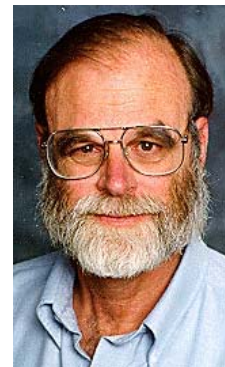
Das Wissenschaftlerinnenkolleg Internettechnologien lädt gemeinsam mit der Fakultät für Informatik der TU Wien und der Österreichischen Computer Gesellschaft ein zum:

WIT-Kolloquium

On-Line Science: The World-Wide Telescope as a Prototype for the New Computational Science

Jim Gray

ACM Turing Award Winner
Microsoft Research



Wann: Freitag, 24. September 2004
13:30 - 14:30

Wo: Technische Universität Wien
Freihaus, FH Hörsaal 5
Turm A, grüner Bereich, 2. Obergeschoß
1040 Wien, Wiedner Hauptstraße 8-10

Abstract

Computational science has historically meant simulation; but, there is an increasing role for analysis and mining of online scientific data. As a case in point, half of the world's astronomy data is public. The astronomy community is putting all that data on the Internet so that the Internet becomes the world's best telescope: it has the whole sky, in many bands, and in detail as good as the best 2-year-old telescopes. It is useable by all astronomers everywhere. This is the vision of the virtual observatory -- also called the World Wide Telescope (WWT). As one step along that path Jim Gray has been working with the Sloan Digital Sky Survey (especially Alex Szalay of Johns Hopkins) and CalTech to federate their data in web services on the Internet, and to make it easy to ask questions of the database (see <http://skyserver.sdss.org>). This talk explains the rationale for the WWT, discusses how the database has been designed, and talks about some data mining tasks. It also describes computer science challenges of publishing, federating, and mining scientific data, and argues that XML web services are key to federating diverse data sources.

Bio

Jim Gray is a "Distinguished Engineer" in Microsoft's Scaleable Servers Research Group and manager of Microsoft's Bay Area Research Center (BARC). His work focuses on databases and transaction processing. Jim is active in the research community, is an ACM, NAE, NAS, and AAAS Fellow, and received the ACM Turing Award for his work on transaction processing. He is author of a series of books on data management, and has been active in building online databases like <http://terraService.Net> and <http://skyserver.sdss.org>. Jim Gray holds a B.Sc. in Mathematics and Engineering and a Ph.D. in Computer Science from the University of California at Berkeley. A longer biography is available at <http://research.microsoft.com/~gray/>

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Unterstützung

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Anmeldung

Wir bitten um Anmeldung unter <http://wit.tuwien.ac.at/events>

Hinweis

Vortrag in englischer Sprache; Teilnahme kostenlos!

