

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Martin Grötschel**

(*Berlin-Brandenburg Academy of Sciences and Humanities*)

报告题目:

**Optimization, OR, and Digital
Humanities**

邀请人: 袁亚湘 院士

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Abstract:

The term Digital Humanities (briefly DH), coined about ten years ago, is used to describe efforts aimed at supporting research (and teaching) in the humanities (and the social sciences) by employing tools and methods from information technology, computer science and mathematics. DH is developing in many directions, but despite some hype and significant media coverage, DH is still in its infancy. The current DH situation resembles the early days of Optimization and Operations Research (OR), also fields in the interface of many other disciplines.

Standard statistical analysis has a long tradition in various branches of the humanities, and many usual IT-tools are frequently employed as well. In my lecture I will address the issue how optimization and OR tools can support DH, i.e., which modeling approaches and solution techniques can be successfully employed in Digital Humanities. I will describe, in particular, some of the efforts (still rudimentary) made in this direction at the Berlin-Brandenburg Academy of Sciences and Humanities with a special focus on linguistics, the edition of manuscripts (of famous scientists such as Leibniz, Alexander von Humboldt, Kant,...) and archeology.

欢迎大家参加！