# 数学与系统科学研究院

# 计算数学所学术报告

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**报告题目：**

**Google Search and cloud computing**

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**报告时间：** **2009 年 9 月 25 日(周五)**

**下午 4:00—5:00**

**报告地点：** 科技综合楼三层 301

计算数学所小报告厅

**Abstract：**

**We are in the midst of a massive shift in computing, from PC–based applications to**

**cloud–based applications, from storing on the PC to storing on the cloud. Cloud computing liberates the user from having to remember where the data is, enables the user to access information anywhere once created, and makes services fast and powerful through essentially infinite information and computing. People are using cloud services to find, share, create, and organize information. People are also using cloud services to shop, bank, communicate, socialize. By using cloud computing, these capabilities will be accessible not only on PCs but also telephones, automobiles, televisions, and appliances.**

**Google has been a pioneer in cloud computing. Behind Google's search, Gmail, and other applications is a hardware architecture (in Google's data centers), operating system components (such as**

**Google File System), and software programming methodology (Map Reduce). These technologies have accelerated**

**Google's development and deployment of new cloud–based applications. To help bring about the cloud computing paradigm, Google is partnering with universities in United States, China, and other countries to develop Cloud Computing courseware.**

**Google is committed to help bring about the era of cloud computing, which we believe will facilitate services that are convenient, easy–to–learn, people–centric, scalable, and device–ready.**

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