

**Department of Computer Science  
University of Houston**

**DISTINGUISHED LECTURERS SEMINAR** 

**Fall 2010 Seminar**

**WHEN: FRIDAY, NOVEMBER 5, 2010**

**WHERE: PGH 232**

**TIME: 11:00 AM**

**SPEAKER: Dr. Divesh Srivastava, AT&T Labs-Research**

Host: Dr. Carlos Ordonez

**TITLE: Enabling Real Time Data Analysis**

**ABSTRACT:**

Network-based services have become a ubiquitous part of our lives, to the point where individuals and businesses have often come to critically rely on them. Building and maintaining such reliable, high performance network and service infrastructures requires the ability to rapidly investigate and resolve complex service and performance impacting issues. To achieve this, it is important to collect, correlate and analyze massive amounts of data from a diverse collection of data sources in real time.

We have designed and implemented a variety of data systems at AT&T Labs-Research to build highly scalable databases that support real time data collection, correlation and analysis, including (a) the Daytona data management system, (b) the DataDepot data warehousing system, (c) the GS tool data stream management system, and (d) the Bistro data feed manager. Together, these data systems have enabled the creation and maintenance of a data warehouse and data analysis infrastructure for troubleshooting complex issues in the network. In this talk, we describe these data systems and present their key research contributions.

**BIO:**

Divesh Srivastava is the head of the Database Research Department at AT&T Labs-Research. He received his Ph.D. from the University of Wisconsin, Madison, and his B.Tech from the Indian Institute of Technology, Bombay. He is on the board of trustees of the VLDB Endowment, the associate Editor-in-Chief of the IEEE Transactions on Knowledge and Data Engineering, and an associate editor of the ACM Transactions on Database Systems. He has served as the program committee co-chair of many conferences, including VLDB 2007. His research interests and publications span a variety of topics in data management.