

AT&T Labs – Research www.research.att.com

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AT&T Labs - Research is one of the premier telecommunications laboratories in the world, leading research in the frontiers of science from the invention of new communications concepts and tools to the incubation of new services. Building on over 80 years of leadership across all areas of communications, we continue to produce innovative technology that differentiates AT&T's services and operations. Come explore our world!

Internet & Network Systems Research Center

Communications is increasingly converging onto IP networks, while the networks themselves, as well as the mix of access technologies and applications, are growing in complexity. AT&T continues to evolve our networks and services -- to enhance network functionality, to enhance the automation, reliability and performance of our networks and services, and to take advantage of emerging technologies such as voice and video over IP, wireless and advances in optical transport. Leadership in the enabling technologies and network management tools is essential to maintaining AT&T's leadership in the industry.

Research Areas:

- Algorithms and Optimization
- IP Network Management
- Internet Architecture and Protocols
- Performance Analysis
- Optical Systems
- Network Software and Systems
- Security and Cryptography
- Traffic Analysis
- Wireless Systems

Information and Software Systems Research Center

Information and Software are at the heart of AT&T's networks, services, and operations. Leadership in these areas impact in critical ways our ability to provide new features in our services across all layers of networking, to operate these services efficiently and effectively, and to support the business functions necessary for excellent customer experience. Today more than ever, the ability to effectively use data in real (or near real) time is a source of cost reduction, revenue, and competitive advantage.

Research Areas:

- Artificial Intelligence
- Communications and Signal Processing
- Communication Software

- Customer Information
- Data Management
- Data Mining
- Dependable, Distributed Systems
- Information Security
- Information Visualization
- Process Measurement Optimization
- Scaleable Software Systems and Algorithms
- Statistics

IP & Voice Services Research Center

Speech has always been a central part of AT&T's mission, beginning with Alexander Graham Bell and the telephone. Inspired by Bell's vision of the future of communications we are continuing to develop new ideas and innovations that mature into new services. Today we are reinventing the telephone through the revolutionary Voice over Internet Protocol (VoIP) technology, and we are changing the ways that our customers communicate with each other and with us.

Research Areas:

- Automatic Speech Recognition
- Dialog Management
- Information Retrieval
- Machine Learning
- Natural Language Understanding
- Spoken Language Translation
- Telecom Features, SIP Signaling
- Text-to-Speech Synthesis
- User Interfaces
- Video and Multimedia Processing

Employment Opportunities

For information on the upcoming 2008 recruiting season, please visit <u>www.research.att.com</u> and click on "Career Opportunities."

