

# Stanley L. Moyer

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## Work

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## **Objective**

Seeking a technology management position where I can combine my technical breadth of knowledge, business skills, ability to simultaneously manage several complex projects, and excellent communication (both oral and written) skills. Ideally, this position would involve cutting edge technology and the opportunity to make an impact.

## **Background Summary**

- Good strategic vision — able to combine corporate needs and strengths with the direction of the marketplace in focusing projects and research.
- Ability to speak the language of business and interface between upper level management and technical workers.
- Understands the “big picture” — excellent high-level network/software architect. Able to effectively evaluate technology by considering all requirements (e.g., technical, business, operational).
- Great breadth of knowledge — e.g., Digital Content, Internet (Home Networking, networked appliances), telecommunications, middleware, software development.
- Superior organizational abilities — manage multiple projects, never miss a deadline, and manage cross-organizational teams. Develop efficient, goal-oriented processes and procedures.
- Excellent communication skills — oral presentations and written reports. First-class customer interfacing ability. Creates winning project proposals.

## **Professional Experience**

*Telcordia (formerly Bellcore), Morristown, NJ (1990-present)*

*10/2001- present — Executive Director, Strategic Research Program, Applied Research*

Responsible for the planning (writing proposals, making presentations, requesting input from other researchers, etc.), administration, and execution of the Applied Research strategic program. Duties include interfacing with Telcordia officers, customers, and Business Units to obtain business goals, devising a research program to meet those goals, and then determining the best way to transition results to the business units. Recently led a Telcordia wide task force to design and implement a product lifecycle management process for all Telcordia products and services. Other activities included leading a cross-organizational Applied Research team to develop a strategic business plan for Applied Research, and business development work for AR in the form of teaming agreements, proposals to research programs (e.g., U.S. Army, NIST ATP, European 6<sup>th</sup> framework), and development of commercial research consulting offers. Developed detailed business cases and/or opportunity analyses for several Applied Research technologies with the potential for commercialization. Some of these opportunities were fed into Telcordia’s corporate new product development process. Telcordia representative on OSGi Alliance board of directors. Also responsible for administration and execution of the Government research program (2001-2003).

*2001 — Director/Project Manager, Internet Service Infrastructure Research*

Project Manager and co-technical lead (team of about 12 people) of the Strategic Research project on Managing Networked Devices. The goal of this project was to design and prototype a network-based home network configuration management and service assurance system (enabling multiple PC applications and networked appliance services). This project also included participation in the OSGi Alliance and continued research into protocols for secure, wide-area communication of networked appliances. My contributions range from technical research, task and project management, opportunity/business analysis, and business development (e.g., seeking external contract research and/or government funding for the work and customers for potential Telcordia products based on our work). I was also program manager for my lab’s \$8 million strategic research program – this required me to administrate and coordinate the projects in the program.

*2000 — Director/Project Manager, Internet Service Infrastructure Research*

Project Manager and co-technical lead (team of about 12 people) of the Strategic Research project on Networked Appliances. The goal of this project was to determine requirements for and impact on the network (and its infrastructure) for supporting networked devices (i.e., ordinary appliances not normally connected to the network). The Networked Appliance project also defined and pursued areas of opportunity for Telcordia (e.g., Operations Support Systems (OSSs) for IP Appliances) in this area. I also managed several projects related to integrated application security in an Internet environment. For example, developing an integrated security solution for Telcordia's OSS products (for which I had to work with contacts from the product BUs and several other Applied Research project members) and providing secure Portal and ASP access to Telcordia OSS products. I was a team member of the AR Ventures Program that sought ways to leverage Investment Bankers and Venture Capitalists to make better use of AR-developed technology. Line manager of a group of twelve technical professionals.

*1999 — Director/Project Manager, Internet Service Infrastructure Research*

Lead three projects to develop enhanced capabilities for Telcordia Technologies' voice over packet (IP and ATM) products. Specifically, designed and defined an architecture to integrate voice mail and unified messaging with the Telcordia voice over packet SoftSwitch products, created an approach for supporting H.323 devices and components, and designed a solution to interwork with SIP devices and endpoints. I participated (as a technical lead and co-project manager) in the Software Technology Consulting: Distributed Objects project. In this project, I continued to develop the middleware security architecture and was the liaison with Professor Doug Schmidt at Washington University who helped to evaluate the real-time capabilities of the CORBA ORB we used, testing the scalability limits of the ORB, and providing general consulting on CORBA. In addition, I participated on the NGN Task Force (cross-organizational team) as part of the "network-based services" sub-team to determine strategic opportunities for Telcordia in this area. I also began the Internet/Networked Appliance strategic research project (see above). Line manager of a group of six technical professionals.

*1998 — Director/Project Manager, Middleware and Interoperability Services*

Responsible for managing several projects related to Internet Service Quality and a middleware project titled, Leveraging Distributed Objects for Bellcore OSSs. The Internet Service Quality projects were internally funded, except for one, and were concerned with how to plan for, monitor, and manage Internet Service Quality. The main goal of these projects was to enable Bellcore's existing software products that, at the time, dealt with the Public Switched Telephone Network, to support Internet services and Internet QoS. Participated in defining the QoS and performance requirements for the Automotive Network exchange (ANX) — a multi-provider extranet for automotive industry trading partners. The middleware project (internally funded) was focused on how to enable Bellcore's software products to use CORBA. The work involved evaluating several CORBA ORBs to determine which one(s) performed better (e.g., in terms of performance, scalability, and reliability) and met Bellcore requirements, determining how to support services such as security, naming, and events with CORBA, and helping migrate existing products from DCE to CORBA. Also performed technical work involving evaluating CORBA Security products and designing a CORBA-based security architecture for Bellcore products.

*1997 — Director/Project Manager, Middleware and Interoperability Services*

Managed several middleware-related external contract research programs (valued at ~\$3M). The titles of these programs were:

- *Middleware for Software Management* — examined web access to legacy systems, integration of web with legacy systems through Java applets and distributed objects, and deploying web-based business-critical applications. Had 3 customers.
- Supporting Electronic Commerce within Communities of Interest. Had 1 customer.
- *Middleware Approach to Internet-Based Applications* — work included: selection of middleware services, infrastructure to support middleware services, and emerging middleware needs for business

For all of these projects, I was responsible for managing the customer interfaces and directing the technical work.

*1996 — Research Scientist, Distributed Applications Research*

Investigated Bellcore's OSS products use of distributed computing technology (OSF DCE) to determine how easily it could be migrated to a newer technology like CORBA or COM/OLE. I evaluated CORBA and COM/OLE and comparing it with DCE to determine what the advantages (if any) of moving to a new technology were for the products. In addition, I worked with Professor Doug Schmidt at Washington University to develop a tool to help automate the migration of existing Bellcore product code from using DCE to using CORBA. I also assisted in the

construction of an Internet Access Testbed that examined the issues and performance differences associated with different methods of Internet access (POTS modem, ISDN, ADSL and Cable Modem) for different applications.

*6/94-12/95 – Research Scientist, Broadband Systems Research*

I was responsible for the design and implementation of the Broadband Service Controller – a controller of heterogeneous networks for mass market and business broadband applications. I worked with a cross-organizational (Software Systems, Professional Services and Applied Research) to design the architecture of the Broadband Service Controller (BSC). Then I helped implement (in C++) an alpha release of the BSC. I was specifically responsible for implementing the Connection Management portion of the BSC, the distributed processing environment and other project-specific common infrastructure. I was also responsible for evaluating and choosing the distributed computing technology (Hewlett Packard's OODCE) and much of the development environment (compiler, configuration management system, testing tools). In addition, I worked with people from Telia, Telefonica, Swiss Telecom and KPN (the Dutch PTT) to integrate the BSC with their applications for the TINA-C WorldWide Demo at Telecom '95.

*6/91-6/94 – Member of Technical Staff, Broadband Systems Research*

As part of the EXPANSE project, I designed and implemented (in C++ and using Sun RPC and DCE RPC for inter-process communications) a distributed connection manager for controlling a network of broadband (ATM) switches. This consisted of two components – the Transport Resource Manager (TRM) for interfacing with higher layer software, routing and allocating network resources and the Fabric Control Application (FCA), which provided a switch-independent interface to the TRM for controlling switch fabrics. I worked in a rotational assignment at Pacific Bell in San Ramon, CA for four months to help transfer the EXPANSE hardware (see next section) and the TRM and FCA software. Pac Bell used this technology to construct a Broadband Experimental Testbed for prototyping broadband applications to demonstrate to their customers. I also assisted Pacific Bell with the demonstration of their testbed at two InterOp tradeshows (in San Francisco in 1993 and Las Vegas in 1994).

*6/90-6/91 – Member of Technical Staff, Broadband Systems Research*

Performed system integration of EXPANSE ATM Switch hardware modules and designed an upgrade (implemented in a Xilinx FPGA) to the communications portion of the switch. The EXPANSE ATM switch was an experimental prototype of an ATM switch (there were none commercially available at the time). I performed system test and debug of the hardware switch modules to construct a working switch. I then designed a new hardware daughter board to use a more robust communications protocol for inter-board communications.

*Plessey Electronic Systems, Totowa, NJ (1987-1990) – Systems Engineer*

Performed hardware/software integration on a JTIDS Army Class 2M Terminal (a secure jam-resistant communications terminal utilizing X.25, Frequency Hopping, TDMA and Spread Spectrum Technologies). Wrote system test plans and procedures and performed testing to fully evaluate all functional requirements of the terminals.

## **Educational Background**

University of Phoenix – MBA — Technology Management – Oct. 2004, 4.0.

Stevens Institute of Technology – Masters of Engineering – Electrical Engineering – 1990, 4.0.

University of Maine – Bachelor of Science — Engineering Physics – 1987, 3.86.

## **Other Education/Training Courses**

*Graduate-Level Courses*

Digital Switching/SMU (Spring 1990), Advanced Computer Networking/Iowa State (Spring 1992), Operating Systems/Univ. of Massachusetts (Fall 1992), Analysis of Algorithms/Univ. of Florida (Fall 1993), Telecommunications Network Design/SMU (Fall 1994).

*Telcordia/Bellcore Courses*

Telecom Marketing (9/01, taught by Thunderbird School), Business and Systems Leadership (7/01, taught by University of Texas), Culture-Driven Competitive Advantage (8/00, taught by Thunderbird School), Market-Based Strategy (7/00), Financial Concepts (5/00, taught by Darden Business School), Professional Presentations (4/00), Making the Business Case (9/99), (SAIC) Project Management I & II (4/99), Project Management using Project Scheduler 7 (2/98), Intelligent Risk-Taking (9/98), Bellcore Mini-MBA (2/97), Project Management using MS

Project (2/96), 7 Habits of Highly Effective People (3/94), Leadership Skills for the MTS (2/93), Improving Written Communication (6/93), Advanced C++ (1992), Intro to C++ (1991), Telephony/Operations Overview (8/90).

## Professional Awards/Honors

2001 — Telcordia CEO Award for work on the Army Research Labs (ARL) Collaborative Technology Alliance (CTA) proposal.

2000 — Accepted into the Telcordia Pipeline Development Program (a program designed to groom people for upper management positions). Completed July 2002.

1997 — Elected as Senior Member of IEEE.

1996 — Bellcore CEO Award for work on the Automotive Network exchange (ANX) Project.

## Professional Skills

Program management, strategic planning, business planning, and business case development. Experienced project manager capable of handling financial and technical aspects of a project – able to simultaneously manage multiple projects effectively. Experience writing proposals and obtaining funding for projects. Was lab recruiting coordinator for two years (responsible for overseeing and coordinating the hiring of over 50 people).

## Computer Skills

Experienced software architect. I have experience programming in C++ and C and have also programmed in VBA, Java, Smalltalk, Tcl/Tk, FORTRAN, Pascal, BASIC and Assembler. I have used the following network protocols and communications paradigms: CORBA, DCE, OODCE, Sun RPC, and TCP/IP. I have used many different types of development environments (CenterLine, SoftBench, ObjectWorks, Visual C++) and development tools (Purify, Asgard, NetMake, RCS/SCCS). I have used many different operating systems: Unix (SunOS, Solaris, HP-UX, Linux), Windows (3.1, 95, NT, 2000, XP) and MacOS. Fluent in HTML and Web Site administration.

## Publications

- Marco Rocchetti, Gary Chan, Madjid Merabti, Stan Moyer, Mehmet Ulema and Heather Yu; “Special issue on advances in consumer communications and networking,” Guest Editorial, *Multimedia Tools and Applications*, Springer Netherlands, July 2006.
- Stan Moyer, Dave Marples, Jiejun Kong, Ling-Jyh Chen, Mario Gerla, and Markus Jakobsson, “A Digital Content Mediator (DCM) Approach To Implementing Legitimate And Secure P2P Online Transactions” *Proceedings of IEEE ICC 2006*, June 2006.
- Munir Cochinalwala, Stan Moyer, and Hyong Shim, “An Integrated Service Management Approach Using OSGi Technology,” published in the *Proceedings of IEEE CCNC 2005*.
- Dave Marples and Stan Moyer, Chapter “Home Networking and Appliances” in book *Smart Environments*, edited by Diane J. Cook and Sajal K. Das, A John Wiley and Sons, Inc., 2004.
- Stan Moyer, Dave Marples, Simon Tsang, and Abhrajit Ghosh, “Service Portability of Networked Appliances,” *IEEE Communications Magazine*, January 2002.
- Stan Moyer and Simon Tsang, “Home Network Configuration Management & Service Assurance,” *Proceedings of the 4<sup>th</sup> IEEE International Workshop on Network Appliances*, January 2002.
- Stan Moyer, Dave Marples, and Simon Tsang, “A Protocol for Wide-Area Secure Networked Appliance Communication,” *IEEE Communications Magazine*, October 2001.
- Sanjai Narain, Ravichander Vaidyanathan, Stanley Moyer, William Stephens, Kirthika Parameswaran, and Abdul-Rahim Shareef, “Middleware For Building Adaptive Systems Via Configuration,” *Optimization of Middleware and Distributed Systems (OM 2001)*, June 18, 2001.
- Simon Tsang, Dave Marples, and Stan Moyer, “Accessing Networked Appliances Using the Session Initiation Protocol,” *Proceedings of ICC 2001*, Helsinki, Finland, June 2001.
- Abhrajit Ghosh, Stan Moyer, and Dave Marples, “An ASP Perspective on Networked Appliances,” *Proceedings of ICC 2001*, Helsinki, Finland, June 2001.
- Arjun Roychowdhury and Stan Moyer, “Instant Messaging and Presence for SIP Enabled Networked Appliances,” *IP Telephony Workshop 2001*, Columbia University, New York, New York, April 2-3, 2001.
- Stan Moyer and Amjad Umar, “The Impact of Network Convergence on Telecommunications Software,” *IEEE Communications Magazine*, January 2001.

- Stan Moyer, Dave Marples, Simon Tsang, Abhrajit Ghosh, "Service Portability for Networked Appliances," Service Portability 2000 workshop, San Francisco, December 1, 2000.
- Stan Moyer, Dave Marples, Simon Tsang, "SIP for Light Bulbs," 2<sup>nd</sup> International Workshop on Networked Appliances," New Brunswick, NJ, December 2000.
- Stan Moyer and Dave Marples, "The Internet Alarm Clock — A Case Study in Networked Appliances." Telcordia White Paper, <http://www.argreenhouse.com/iapp/ac-whitepaper.pdf>, November 2000.
- Andy Gokhale, Doug Schmidt and Stanley Moyer, "Software Tools for Automating the Migration from DCE to CORBA." *Proceedings of the International Switching Symposium '97*, Toronto, Canada, September 1997.
- Stanley L. Moyer and Glenn Flinchbaugh, "The Broadband Service Controller – A Control System for Interactive Video Networks," *Proceedings of International Symposium on Subscriber Loops and Services (ISSLS) '96*, Melbourne, Australia, February 1996.
- Stanley L. Moyer, et al., "Extensible Connection Management Interfaces for Future Multimedia Services," *Proceedings of the International Switching Symposium '95*, Berlin, Germany, April 1995.
- Stanley L. Moyer and Tom S.C. Soon, "Object-Oriented Technology in a Broadband Network Software Architecture," *Proceedings of Globecom '94*, San Francisco, CA.
- Howard Bussey, Steven Minzer, Petros Mouchtaris, Stanley L. Moyer and Frederick Porter, "EXPANSE Software for Distributed Call and Connection Control," *International Journal of Digital and Analog Communications Systems*, Vol. 7, pp. 149-160 (1994).
- Petros Mouchtaris, Stanley L. Moyer, Glenn D. Flinchbaugh, Will E. Leland, Daniel Pomplun and Abel Weinrib, "An Object-Oriented Interface for a Distributed Connection Manager," *Proceedings of ICC '94*, New Orleans, Louisiana, May 2, 1994.
- Stanley L. Moyer and Darryl S. Rouse, "A Connection Manager for Flexible Specification and Transparent Location of Special Resources," *Proceedings of Globecom '93*, pp. 1526-1530, Houston, Texas, December 1993.
- Stanley L. Moyer and Tom S.C. Soon, "From EXPANSE to BEST - a Successful Case of Object-Oriented Technology Transfer," *Proceedings of BOOST '93 Symposium*, pp. 80-89, Bellcore SR-ST5-002713, June 1993.
- Stanley L. Moyer, Howard E. Bussey and Paul E. Brierley, "A Connection Management Interface for a Fabric Control Application," *Proceedings of ICC '93*, pp. 331-335, Geneva, Switzerland, May 23-26, 1993.

### **Internet Drafts and RFCs**

- Simon Tsang, et al. "Internet Personal Appliances Control (IPAC) Discussion," Internet Draft draft-tsang-appliances-discuss-00.txt, February 2001.
- Stan Moyer, et al. "Framework Draft for Networked Appliances using the Session Initiation Protocol," Internet Draft draft-moyer-sip-appliances-framework-02.txt, June 2001.
- Simon Tsang, et al. "Requirements for Networked Appliances: Wide-Area Access, Control, and Interworking," Internet Draft draft-tsang-appliances-reqs-01.txt, September 2000.
- Simon Tsang, et al. "SIP Extensions for Communicating with Networked Appliances," Internet Draft draft-tsang-sip-appliances-do-00.txt, November 2000.

## Invited Talks and Panels

- Presented talk “Making the Home Net Work!” “The Digital Home: Gateway to Opportunity,” Globalcomm 2006 Executive Session, June 5, 2006, Chicago, IL.
- Gave talk titled “Enhancing P2P Video Services — A Role for Service Providers” at Telecom ’05 Panel Session on “Next Generation Peer-to-Peer — Where to Telcos fit in?” in Las Vegas in October 2005.
- Chaired panel, “When Applications Can Roam Freely,” at CCNC 2006 in Las Vegas.
- Invited to present talk on “Enabling and Managing Ubiquitous Service Availability” at the Globecom 2005 Design and Developers Forum on Ubiquitous Networks Design and Applications in St. Louis, MO in December 2005.
- Presented talk on “OSGi™ Technology and the IP Multimedia Subsystem (IMS) for Converged Network Services” at the OSGi World Congress, 2005, Paris, France.
- Invited to participate in two panel sessions at IEEE ICC 2005 in Seoul, Korea in May 2005:
  - “A Tale of Two Broadband Access Technologies” for Broadband Wireline panel
  - “Making the Home Net Work” for Home Electronics and Networks panel
- Presented half-day tutorial on Networked Appliances at IEEE CCNC 2005, January 2005, Las Vegas, NV.
- Presented a talk on “Digital Content Mediation Challenges” at a panel session on the “Future of Content Delivery” at IEEE CCNC 2005, Las Vegas, NV.
- Presentation on “Enabling Healthcare Service Delivery and Management” at the OSGi World Congress, 2004, Barcelona, Spain.
- Invited to give a presentation on “Challenges and Issues in Home Networking — Solutions and Open Issues” at a panel session on Home Networking at ICC 2004 in Paris, France, June 2004.
- “Powerline Communications – Where Does it Fit?” presentation as part of panel session on “Power Line Communications: from skepticism to reality” at CCNC 2004 in Las Vegas, NV.
- “OSGi Technology - Enabling the Networked Delivery of Managed Services,” Moderated Panel at the Conference on Consumer Networking and Communications (CCNC) 2004 in Las Vegas, NV
- “OSGi Technology Overview Plenary Session,” spoke at and moderated panel at the 2003 OSGi World Congress in Dusseldorf, Germany.
- OSGi World Congress 2003,
- Presented half-day tutorial on Networked Appliances at the Feature Interaction Workshop (FIW), June 2003, Ottawa, Canada.
- Pervasive Computing 2002, October 2002, NIST, Gaithersburg, MD, Invited to give a talk, “OSGi™ Service Platforms: Enabling the Delivery of Pervasive Services.”
- OSGi World Congress, September 2002, Stockholm, Sweden, Invited to give a talk, “Expediting the Roll-Out of Value Added Services and Applications.”
- EntNet@Supercomm 01, June, 2001, Atlanta, GA. Invited to chair and organize panel on "Networked Appliances Issues and Challenges for Enterprise Networks."
- Broadband Home Spring 2001 conference, February 26-28, 2001, Miami, FL. Invited to chair panel and give presentation in the session, "Bridging Diversity in the Home."
- Broadband Home Fall 2000 conference, October 3-5, 2000, San Francisco, CA:
  - Moderated panel on "Home/Road Transparency"
  - Gave a presentation on "Service Portability for Networked Devices"
  - Moderated and organized panel, “Configuring, Managing, and Provisioning Broadband Home Services
- IETF 48, August, 2000 in Pittsburgh, PA. Presented “SIP for Networked Appliances” at SIP WG meeting.
- ENCOM ’98, “Internet Service Quality in Enterprise Networks,” chaired panel at Enterprise Networking and Computing ’98, Atlanta, GA, June 1998.
- ICC ’98, “Experiences from the InfoTEST EPR Project — an Extranet Testbed,” chaired panel at ICC ’98, Atlanta, GA, June 1998.
- OPENSIG ’97, “A Service Management Middleware Architecture,” Columbia University, October 1998.
- Community Networking ’97, “Network Software Infrastructure Requirements for Community Networking,” Keynote Talk, Georgia Institute of Technology, Atlanta, GA, September 11, 1997.

## Patents

- U.S. Patent 6,766,364, “Template based configuration and validation of a network for enabling a requested service to be compatible with the previously enabled services,” July 20, 2004.
- Service Assurance Systems for Home Networks. Patent application filed January 2002.
- System and Method For Initiating Connections Through Firewalls And Network Address Translators. Patent application filed November 2001.
- SIP for Networked Appliances. Patent application filed January 2001.
- Outsourcing of Functionality to SIP Proxies. Patent application filed January 2001.
- A System and Methods for Bridging Local Device Communications Across the Wide Area. Patent application filed March 2004.

## Professional Activities

I am a senior member of the IEEE, IEEE Communications Society (ComSoc) and IEEE ComSoc Communications Software and Multimedia Communications Technical Committees. I am also a life member of the Tau Beta Pi Engineering honor society. Details of my activities are shown below:

- Elected President of the OSGi Alliance (2005-present).
- Treasurer of the IEEE Communications Society (2006-2007)
- Elected “member at large” to the IEEE Communications Society Board of Governors (2004-2006)
- Chair (2003) and Vice-chair (2004-present) of the steering committee for the IEEE Conference on Consumer Networking and Communications
- Member of the board of directors and secretary for the OSGi Alliance (2001-2005).
- Co-editor of the semi-annual *IEEE Communications Magazine* “In-Home Networking” series (2002-2003), which then became the “Consumer Communications and Networking” series (2004-2005).
- Chair of IEEE ComSoc Multimedia Communications Technical Committee (2001-2003).
- IEEE Communications Society representative to the *IEEE Transactions on Multimedia* steering committee (2002-2004).
- IEEE International Conference on Multimedia and Expo (ICME) steering committee member (2002-2005).
- Technical Program Committee member of EntNet 2002.
- Member of Technical Committee and International Steering Committee for International Workshop on Network Appliances (2000-2003).
- Technical Editor for *IEEE Communications Magazine* (2001-2002).
- Program Chair of ICC 2001’s and ICC 2002’s Next Generation Internet symposium.
- Technical Program Committee Member SoftCOM '98, '99, 2000, 2001, and 2003.
- Chair of the IEEE ComSoc Communications Software Technical Committee (1997-1999).
- Secretary of IEEE ComSoc Communications Software Technical Committee (1995-1997).
- Technical Program Vice-Chair of Enterprise Networking Technical Committee (1996-1998).
- Technical Editor for *IEEE Communications Interactive* (1996-1998).
- Program Chair for “International Workshop on Quality and Productivity,” Ojai, CA, May 1997.
- Publicity and Publication Chair for ENCOM '98, Atlanta, GA, June 11, 1998.
- Session Chair and Organizer for Globecom '96, ICC '97 and ICC '98.