



C-DAC ACCS Foundation Lecture Award 2009



Citation

Professor Raj Jain is a Fellow of IEEE, a Fellow of ACM, a winner of ACM SIGCOMM Test of Time award, and ranks among the top 50 in CiteSeer's list of Most Cited Authors in Computer Science. Dr. Jain is currently a Professor of Computer Science and Engineering at Washington University in St. Louis. Previously, he was one of the Co-founders of Nayna Networks, Inc - a next generation telecommunications systems company in San Jose, CA. He was a Senior Consulting Engineer at Digital Equipment Corporation in Littleton, Mass and then a professor of Computer and Information Sciences at Ohio State University in Columbus, Ohio.

Dr. Jain obtained his B.E. in Electrical Engineering from A P S University, Rewa in 1972, M.E. in Automation from Indian Institute of Science, Bangalore in 1974, and a PhD from Harvard University, Cambridge, Mass, USA in 1978.

Prof. Jain has authored or edited 7 books. He is the author of "Art of Computer Systems Performance Analysis," which won the 1991 "Best-Advanced How-to Book, Systems" award from Computer Press Association. His fourth book entitled "High-Performance TCP/IP: Concepts, Issues, and Solutions," was published by Prentice Hall in November 2003. He is co-editing "Quality of Service Architectures for Wireless Networks: Performance Metrics and Management," to be published in February 2010.

Dr. Jain's papers have been widely referenced and he is known for his research on congestion control and avoidance, traffic modeling, performance and error analysis. Google Scholar lists over 9800+ citations to his publications. He is a co-inventor of the DECbit scheme, which has been implemented in various forms in DECnet, OSI, Frame Relay and ATM Networks. His team has developed many switch algorithms for explicit rate-based congestion avoidance in ATM networks.

Dr. Jain is an active participant in industry forums like the WiMAX Forum, IEEE Standards group, ATM Forum and Internet Engineering Task Force and has made over 100 contributions that have been implemented. The distinguishing factor in his research has been its relevance to the Industry and Dr. Jain was awarded 1999 Silicon India Leadership Awards for Excellence and Promise in Business and Technology.

Raj Jain has served on the Board of Technical Advisors to a dozen Silicon Valley start ups including Nexabit Networks, Westborough, MA acquired by Lucent Corporation. (March 1997-1999), Amber Networks, Fremont, CA acquired by Nokia (1999-2001).

He is the Co-Editor in Chief of ICST Transactions on Networking and Communications and is on the Editorial Boards of Computer Communications (UK), Journal of High Speed Networks (USA), Mobile Networks and Applications, International Journal of Virtual Technology and Multimedia (UK), International Journal of Wireless and Optical Communications (IJWOC), International Journal of Communication Networks and Distributed Systems (IJCNDs), ICST Transactions on Mobile Communications and Applications and is on the advisory board of Journal of Communications.

He has served as a Distinguished Lecturer for the IEEE Communications Society (1997, 1999-2006), ACM Lecturer (1991-97), IEEE Computer Society Distinguished Visitor (1993-96), Vice-Chair of ACM SIGCOMM (1991-95), Chair of TIA/SCD/CIS Working Group on ATM Traffic Management (1996-1998), Editor of the WiMAX Forum System Evaluation Methodology (2005-2008), Editor of ATM Forum Performance Testing Specification (1996-1998).

The Advanced Computing and Communications Society is pleased to honor Dr. Raj Jain with the CDAC-ACCS Foundation Award for 2009 in recognition of his outstanding dedication and support to the body of science in the fields of Networking and Communications. His contributions have been instrumental in influencing networking technologies while defining new standards for teaching and research in graduate education.

