

Dr Vishal Sharma Metanoia



Vishal Sharma serves as a Principal Consultant at Metanoia, Inc., a speciality deep-dive technical consultancy, based in Mountain View, California, and, currently, is also associated with the Indian Institute of Technology Bombay (IITB).

He earned the B. Tech. (EE) degree from IIT Kanpur, and the M.S. (Signals & Systems), M.S. (Computer Eng.), and Ph.D. (ECE) degrees from the University of California at Santa Barbara.

Dr. Sharma has over 15 years of diverse research, industry, and academic experience in networking and telecom technologies, with a focus on system architecture, protocol design, system analysis and optimization, software prototyping, and network planning & algorithms. He is a core contributor to the generalized MPLS standards developed at the IETF with approximately 10 RFCs published (and to be published), and co-editor of the MPLS Recovery Framework (RFC3469), and the Framework for

GMPLS Control of SDH/SONET Optical Networks (RFC4257) and has several patents in process in: MPLS recovery, optical routing, the IP control of SONET/SDH networks, and switch architectures and scheduling.

He is a Senior Member of the IEEE, a Fellow of the IETE (Institution of Electronics and Telecommunication Engineers, India) and on the Scientific Committee of the MPLS World Congress, Paris, on the Advisory Board for MPLSCon, New York, and on the TPC's of the Int'l Conference on the Design of Reliable Communication Networks (DRCN) 2005, Italy, the IEEE LAN/MAN Workshop 2005, Greece, and the International Conference on IP and Optical Networks (IPOP) 2005, 2006, Japan, and is a frequent Chair, speaker, and invited panelist in industry and academia in the US and abroad. He was a guest editor of two IEEE Communications Magazine special issues, "Challenges in Enabling Inter-Provider Service Quality in the Internet," June 2005, and "OAM in MPLS-based Networks," October 2004.

Dr. Sharma has provided services in technology strategies, architecture and design trade-offs, product development, and knowledge enhancement to organizations ranging from large equipment manufacturers to premier optical and network planning tool startups to established component/semiconductor vendors.

His current research and consulting interests are in: data network design and planning, IP services evolution and planning, and metro/core network design including IP/ATM traffic management algorithms, scheduling and security in broadband wireless networks (e.g. Wi-Max, and 3G networks), and security issues in IP protocols.