

Biographical Information

Bharat Bhargava is a professor of the department of computer sciences and department of electrical & computer engineering at Purdue university since 1984. Professor Bhargava is conducting research in security issues in mobile and ad hoc networks. This involves host authentication and key management, secure routing and dealing with malicious hosts, adaptability to attacks, and experimental studies. Related research is in formalizing evidence, trust, and fraud. Applications in e-commerce and transportation security are being tested in a prototype system. He has proposed schemes to identify vulnerabilities in systems and networks, and assess threats to large organizations. He has developed techniques to avoid threats that can lead to operational failures. The research has direct impact on nuclear waste transport, bio-security, disaster management, and homeland security. These ideas and scientific principles are being applied to the building of peer-to-peer systems, cellular assisted mobile ad hoc networks, and to the monitoring of QoS-enabled network domains. He serves on five editorial boards of international journals.

His research group consists of nine PhD students and two postdocs. He has six NSF funded projects. In addition, DARPA, IBM, Motorola, and CISCO are providing contracts and gift funds.

Professor Bhargava was the chairman of the IEEE Symposium on Reliable and Distributed Systems held at Purdue in October 1998. In the 1988 IEEE Data Engineering Conference, he and John Riedl received the best paper award for their work on "A Model for Adaptable Systems for Transaction Processing." Professor Bhargava is a Fellow of the Institute of Electrical and Electronics Engineers and of the Institute of Electronics and Telecommunication Engineers. He has been awarded the charter Gold Core Member distinction by the IEEE Computer Society for his distinguished service. He received Outstanding Instructor Awards from the Purdue chapter of the ACM in 1996 and 1998. In 1999 he received IEEE Technical Achievement award for a major impact of his decade long contributions to foundations of adaptability in communication and distributed systems. In 2003, he has been inducted in the Purdue's book of great teachers.