Farhana JABEEN

Home Country
Pakistan

Degree
**PhD in Distributed
and Adaptive Systems**

Expertise
Computer Science

Research Focus
**Ad-Hoc Wireless
Sensor Networks**

Host University
**University of
Manchester,
United Kingdom**

Fellowship Awarded
2009

Farhana Jabeen was born in rural Pakistan and raised in the city of Rawalpindi, where her parents encouraged her and her three brothers to pursue higher education. She enjoys challenges and learning new perspectives.

After beginning her academic studies in mathematics, statistics and economics, she found her calling in computer science and earned her undergraduate and graduate degrees in that field at the University of Peshawar.

As a Microsoft Certified System Engineer, she was instrumental in the deployment and management of the intranet connecting various schools at Fatima Jinnah Women University, including setting up computer labs in those schools.

She then went on to earn a MSc in software engineering at the National University of Science and Technology in Pakistan, and she is now pursuing a PhD in computer science at the University of Manchester in the United Kingdom.

In the UK her research focus is on distributed spatial analysis over wireless sensor networks (WSNs), which are collections of spatially distributed nodes equipped with sensing, communication and processing capabilities. There is widespread agreement that WSNs are becoming an essential technology for monitoring the natural environment and for modeling the behavior of physical phenomena over space and time.

Farhana is designing specialized distributed algorithms to effectively and efficiently implement the operations of an expressive spatial algebra over a spatial framework that can be realized over wireless sensor networks. Her work is intended to enable spatial analysis over sensor networks.