Physical Layer Network Coding in Wireless Network

The relays are employed in mobile cellular systems to Extend Coverage and Increase the transmission rate at the cell-edge. The project concentrates on the design and analysis of cooperative communication techniques Suitable for the Next Generation Wireless Networks. The project will target a unified construction of advanced physical layer network coding scheme. Further, the project aims to design signal processing Algorithms for relay processing. As the relay is central to the cooperative processing and communication in order to reap the Benefits of this technique, a new set of physical layer relay Designed scheme will be studied.