Smart sensors for wireless personal and body area networks

• Cooperative communication concept to be applied in sensor networks and personal wireless communications
  – issues with antenna element design
  – radio propagation in dense indoor environment to establish confidence on specific channel parameters for system design and evaluation
  – algorithm design and analysis to achieve cooperative communication based on location, environment and power requirements

• Accurate ultra wideband localisation for manipulation of robotic hands

• Sensing for the future: recognition to cognition

http://www.eecs.qmul.ac.uk/~akram