

# SCHOOL OF COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY

## INDUSTRY LINKS CAPABILITIES AND COMPETENCIES

### Wireless Communication

- 4G and 5G wireless networks consulting services
- Millimeter wave applications and analysis
- Free space optical applications and analysis
- MIMO systems and massive MIMO systems planning and design
- Marketing Knowledge Management

### Bioinformatics, cancer and disease analysis

- Analysis of high-throughput cancer or disease data
- Gene expression, methylation, microarrays, RNAseq, microRNAs
- Statistical analysis of cancer or disease features and survival rates
- Analysis and suggestions of potential cancer/disease markers
- Analysis of potential drug targets (Protein level)
- Statistical analysis of protein/DNA sequences (Sequence homology, motifs, etc.)
- Classification and prediction of protein functional classes

### Business/industrial optimization

- Developing business intelligence tools
- Planning, scheduling and resource allocation
- Optimal solutions computed by dedicated programs

### Communication systems, computer networks

- Performance evaluation of real-time Internet traffic over wired/wireless networks
- Design and implement Media Access Protocols (MAC) for wireless networks
- Video/audio streaming over wired/wireless networks
- Multi-parity audio and video conferencing
- Network coding, QoS routing, Network measurements
- Voice over IP over wired and wireless networks
- Developing and implementing optimization algorithms for resource optimization for wireless network
- WWAN standard and technologies such as WiMax, WCDMA/HSPA, LTE, WLAN and WPAN technologies such as (802.11n, Bluetooth, UWB)
- E-health services
- Mobile technologies
- Smart Grid communication and networking

## CONTACT INFO

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