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

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