

Independent study courses

Name (Rank) – Contact	Research interest
Ghulam Muhammad (Professor; email: ghulam@ksu.edu.sa)	Physiological signal, image and video processing using deep learning
Mohammed Alenazi (Assistant Professor) mjalenazi@ksu.edu.sa http://fac.ksu.edu.sa/mjalenazi	<ul style="list-style-type: none"> • Software Defined Networks • Internet of Things • Resilient Networks • Routing Algorithms • Multipath Transport Protocols • Network topology modelling and design • Wireless Sensor Networks
Saleh Almowuena Assistant Professor Saleh@ksu.edu.sa http://fac.ksu.edu.sa/saleh	<ul style="list-style-type: none"> - Heterogeneous Cellular Network; 5G; - Internet of Things, Sensor Networks; - Software-Defined Networking; - Energy-aware Data Aggregation in IoT; - Multimedia Streaming over Mobile Networks;
Mansour Alsulaiman (Professor) Msuliman@ksu.edu.sa	Speech processing, Robot navigation, Sign language recognition, Image and video processing
Nasser-Eddine Rikli (Professor) rikli@ksu.edu.sa http://fac.ksu.edu.sa/rikli	Performance analysis, management and administration of Computer Networks, both wired and wireless, through analysis and simulation, this includes but not limited to: SDN, Cloud/Fog computing, IoT, Vanet, M2M, DTN, BAN, Network security, QoS.
Dr. Abdulmohsen Mutairi (Assistant Professor) mutairi@ksu.edu.sa	<p>Software-Defined Networking:</p> <ul style="list-style-type: none"> • Virtualized SDNs and net slicing • Virtual Network Embedding problems • Net-specific Hypervisor design & evaluation <p>Wireless Communications and Networking:</p> <ul style="list-style-type: none"> • Cellular mobile networks (5G & Millimeter wave systems) • M2M & IoT sensor networks • High throughput Wireless LANs <p>Multiple Access theory:</p> <ul style="list-style-type: none"> • Radio Resource management and optimization • Dynamic interference coordination • Link scheduling <p>Software-defined radios</p> <p>Computer networks:</p> <ul style="list-style-type: none"> • Design and management • Modelling, analysis and simulation • Internet traffic control and active queue management <p>Scheduling and Queueing theory</p> <p>Optimization theory:</p> <ul style="list-style-type: none"> • Convex programming • Integer programming
Dr. Haikel Hichri (Associate Professor) Hhichri@ksu.edu.sa http://fac.ksu.edu.sa/hhichri http://alhichri.maclab.org/	<p>Pattern recognition and machine intelligence</p> <p>Deep machine learning</p> <p>Remote sensing</p> <p>Image processing</p>
Abdulwadood Abdulwaheed (Associate Professor) aabdulwaheed@ksu.edu.sa http://fac.ksu.edu.sa/aabdulwaheed/	Image Processing, Biometrics, Watermarking, Medical Image Processing, Image Forensics and Security, Applications of Signal and Image Processing related to Robotics
Abdulrahman Almutairi Assistant Professor Amutairi@ksu.edu.sa	<ul style="list-style-type: none"> • Collaborative Intrusion Detection System (CIDS) • SDN Security

http://fac.ksu.edu.sa/amutairi	<ul style="list-style-type: none"> • Network virtualization Cybersecurity
Hedjar Ramdane-Professor, hedjar@ksu.edu.sa , http://fac.ksu.edu.sa/hedjar	<ol style="list-style-type: none"> 1. Supervised classification and estimation, 2. Intelligent control of under-actuated systems (mobile robots, UAVs, etc.), 3. Networked control systems, 4. Computer vision in robotics, Formation control of multi-agent systems.
Maazen Alsabaan (Assistant Professor) malsabaan@ksu.edu.sa http://fac.ksu.edu.sa/malsabaan	Wireless Communications and Networking Vehicular Networks Green Communications Intelligent Transportation Systems Wireless Sensor Networks
Ahmed Alhammad (Assistant Professor) Ahalhammad@ksu.edu.sa http://fac.ksu.edu.sa/ahalhammad	Multicore processors Parallel Programming High Performance Computing Scheduling algorithms Cloud Computing Internet of Things Real-time and Embedded Systems
Prof. Sami S Alwakeel Swakeel@ksu.edu.sa http://faculty.ksu.edu.sa/alwakeel/default.aspx Mobile : 0505452021	General : Computer networks: modeling, analysis, simulation, and management. Research Interests: <ul style="list-style-type: none"> • Internet of things security and modeling • Sensor Networks Routing & protocols ; • Load Balancing algorithms for cloud computing • Integration Strategies of Plug in Electric Vehicles Demand Loads. • Smart grid & smart metering protocols and performance evaluation • Social mobile networking • Handover strategies for heterogenous Networks; • Classifiers based Networking; • Access networks for Cloud computing ; • MAC protocols Performance analysis; • Nano networking; • Quality of Service (QoS) in Networking • Impeded algorithms and devices for Autistic Children
Saad Haj Bakry (Professor) Shb@ksu.edu.sa http://faculty.ksu.edu.sa/shb	Tele-traffic analysis and network design Network governance and standards Cybersecurity metrics E-services architecture
Prof. Yousef A. Alotaibi yaalotaibi@ksu.edu.sa On google Scholar: http://scholar.google.ca/citations?user=A_UKvyUAAAAJ&hl=en Homepage: http://fac.ksu.edu.sa/yaalotaibi	Digital speech processing Arabic speech processing Language processing Speech recognition Neural networks for digital speech processing
Prof. Nasser-Eddine Rikli Professor Rikli@ksu.edu.sa http://fac.ksu.edu.sa/rikli Office: 11-4678579	Computer networks: modeling, analysis, simulation, and management. Selected topics: Wi-Fi, WiMAX, LTE and Cellular Access; Personal area networks; Integrated wired/wireless access; Service convergence and multimedia networks;

	<p>Software-defined networking (SDN) and cloud computing in access networks; Big data for smart cities and smart homes; Big data with Internet of Things/cyber-physical systems; Mobility and big data; Cloud Networking in 5G; Cloud Networking for Internet of Things (IoT); Mobile Cloud Networking; Quality of Service or Experience (QoS & QoE) in Cloud Services and Networking Software Defined Networks; Body sensor networks and wearable sensor systems; Machine to Machine (M2M) and cellular-based protocols for Internet of Things; Cloud computing, Edge Computing / Fog Computing integration with Internet of Things Software Defined Networks and Personal Networks deployment in Internet of Things; Crowd-sensing, floating content and opportunistic Internet of Things; Security, Trust and Identity management in Internet of Things Mobility, Localization and context-adaptive Internet of Things</p>
<p>Prof. Salman AlQahtani Salmanq@ksu.edu.sa http://fac.ksu.edu.sa/salmanq</p>	<p>Internet of things. M2M Communications H2H & M2M Co-existence Cognitive networks. Radio resource management for Heterogenous wireless networks (MAC Protocol, Call admission and Scheduling). Mobile and wireless networks (4G and 5G) 5G Network Slicing SDN/NFV Smart Grids networks Modeling and analysis of computer networks. Mobile Edge Computing Scheduling and Queueing theory</p>
<p>Dr. Ridha Ouni (Associate Professor) rouni@ksu.edu.sa http://fac.ksu.edu.sa/rouni/home</p>	<p>Wireless Communications and Networking, Mobility management and localization, Wireless Sensor Networks - civil & medical applications, Internet of things. Machine learning for networking</p>
<p>Dr. Haikel Hichri (Associate Professor) Hhichri@ksu.edu.sa http://fac.ksu.edu.sa/hhichri http://alhichri.maclab.org/</p>	<p>Pattern recognition and machine intelligence Deep machine learning Remote sensing Image processing</p>
<p>Dr. Aasem N. Alyahya (Assistant Professor) analyahya@ksu.edu.sa</p>	<p>MIMO systems in wireless communication. MIMO-OFDM systems. Resource Allocation and Power management.</p>
<p>Dr. Belgacem Ben Youssef (Associate Professor) BBenyoussef@ksu.edu.sa http://fac.ksu.edu.sa/bbenyoussef</p>	<p>High Performance Computing. Multicore and many-core processing, Parallel Programming, Task Scheduling. Computational Biology, Visualization and Signal Processing. Big data and Data Intensive Computing, GPU and Heterogeneous Computing.</p>
<p>Abdulaziz Almazyad (Associate Professor) mazyad@ksu.edu.sa</p>	<p>Wireless Communications and Networking Sensor Networks Routing & protocols Network security and security protocols Vehicular Networks Internet of Things protocols</p>

	<p>Radio resource management for Heterogenous wireless networks (MAC Protocol, Call admission and Scheduling).</p> <p>Mobile and wireless networks (4G and 5G) modeling and analysis of computer networks</p> <p>Artificial intelligence and neural networks.</p>
<p>Mansour Alsulaiman</p> <p>Msuliman@ksu.edu.sa</p> <p>Professor</p> <p>Msuliman@ksu.edu.sa</p>	<p>Speech Processing</p> <p>Computer Vision</p> <p>Deep Belief Neural Networks</p> <p>Robotics</p> <p>Sign Language recognition</p>
<p>Dr. Yakoub Bazi</p> <p>Associate Professor</p> <p>ybazi@ksu.edu.sa</p>	<p>Artificial intelligence</p> <p>signal/Image processing</p> <p>Deep learning</p> <p>remote sensing</p> <p>Biomedical signal/image analysis</p>
<p>Prof. Naif Alajlan</p> <p>najlan@ksu.edu.sa</p> <p>Professor</p> <p>najlan@ksu.edu.sa</p>	<p>Artificial Intelligence</p> <p>Image Processing</p> <p>Pattern Recognition</p> <p>Deep learning</p> <p>Shape Matching</p>
<p>Dr. Nassim Ammour</p> <p>Associate Professor</p> <p>nammour@ksu.edu.sa</p> <p>http://fac.ksu.edu.sa/nammour</p>	<p>Artificial Intelligence</p> <p>Signal and Image processing</p> <p>Deep Learning</p> <p>Remote Sensing</p> <p>Biomedical Signal and Image processing</p> <p>Robotics</p>
<p>Ayed Alqahtani (Assistant professor)</p> <p>Ayed@ksu.edu.sa</p>	<p>Computer Architecture</p> <p>Reliability and Fault Tolerance</p> <p>Load Balancing and Circuit Age Prevention</p> <p>Network-on-Chip Design and Routing</p> <p>Power and Thermal Management</p> <p>Hardware Security and Encryption</p> <p>Steganography</p> <p>Artificial Intelligence and Machine Learning</p>