

Main Field	Subfield	Topics	Participating
Computer Engineering	Data Mining	Clustering and Classification Methods. - Statistical Algorithms Neural Networks Genetic algorithms Optimization - Nearest neighbor method A Rule induction	أ.د. على الدسوقي – أ.د. مفرح سالم – د. عمرو ثابت
	Web Mining	An Adaptive Real-Time Web Search Engine - Data Mining and Data Warehousing. Intelligent Search engine - Information Retrieving on the Web	د. على الدسوقي – أ.د. مفرح سالم – د. عبد الحميد فوزي
	Distributed Systems	Algorithms, Software, and Applications -Collaborative and Virtual Environments Computational Science - Studying the previous point based on the Various infrastructure (LAN, WAN, Cluster, WEB, Internet)	أ.د. هشام عرفات – أ.م.د أحمد صالح - د. عبد الحميد فوزي
	Networks	Wireless networks, high-speed networks, sensor networks, algorithms and protocols for computer communication, quality of service	أ.د. هشام عرفات – د. مروى فايز – د. عبد الحميد فوزي
	High Performance Computing	Scheduling and allocation - Computer vision, remote sensing, telemetry, computer-based collaboration, assistive and rehabilitative technology, human-computer interaction- Grid computing and cloud computing	د. على الدسوقي – أ.د. مفرح سالم – أ.د. هشام عرفات - أ.م.د أحمد صالح
Automatic Control	Robotics and Control	Autonomous vehicles, sensor fusion, exoskeletons, medical robots, bimolecular control Applications of robotic technologies to manufacturing and industrial automation	د. فايز جمعة – أ.م.د صبرى سرايا
	Automatic control based Intelligent Soft computing	Applications of robotic technologies to manufacturing and industrial automation Design, analysis and control of multi-robot manipulation systems Gross/fine motion and task planning Intelligent control of robots Intelligent manufacturing systems including design and development of sensor-based advanced controllers for machine tools Man-machine interface Modeling, Analysis and Control of Cyber-Physical Systems Networked Control Systems	د. فايز جمعة- أ.م.د صبرى سرايا – د. محمد شريف - د. أميرة هيكل – د. مصطفى الحسينى