

		Sub
Signal Processing	AV MM Communication MM Systems NLP & Recognition Processor Architecture	<ul style="list-style-type: none"> - Audio/Video/Image/Speech: Coding, Analysis, Retrieval, Computer Vision & Graphics - Streaming, Authentication & Watermarking - Architecture, Design & Tools - Natural Language Processing, Pattern Recognition, Speech Recognition - DSP, Graphic Processor - biomedical imaging/Medical Imaging
Circuit Design	RF/Microwave Analog circuits Digital circuits Mixed signal circuits	<ul style="list-style-type: none"> - RF/Microwave circuits, components, and systems - power IC, driver IC, amplifiers, filters, LDO - micro-controllers, multimedia processors, memory, logic circuits - data converters, clock synthesizers, imagers, wired communication
Communication & Networks	Transceiver Technologies Communication Protocols Next Generation Systems Implementation	<ul style="list-style-type: none"> - Modulation, Demodulation, Channel Coding, Multiplexing, Multiple Access, Diversity, Signal Enhancement, Channel Model - Data Link Layer, Network Layer, Transport Layer, Application Layer - Mobile Systems & Convergence Networks over All-IP - Communication Systems on Chip, Network/Communication Processor
Computer Science & Computer Engineering	Computer Systems Computer System Software Theory & Modeling Computer Applications Other s	<ul style="list-style-type: none"> - Computer Architecture, Real-time/Embedded Systems, Parallel/Distributed Systems - Operating Systems, Database Systems, (Web-based) Information Systems - Theory & Modeling: Algorithms, Security, Programming Languages/Compiler, Performance Evaluation & Modeling - Artificial Intelligence, Human Computer Interaction, Virtual Reality - Software Engineering, etc.
Mechanical Engineering	Control & Robotics Mechanical Analysis Mechanical Design Solid Mechanics and Reliability Manufacturing Technology	<ul style="list-style-type: none"> - Control, Robotics, Automation - Dynamics, Vibration, Acoustics, Fluid/Gas Dynamics, Thermodynamics, HVAC, etc. - Mechanical Design, CAD/CAE/CAM, Optimization, etc - Solid Mechanics, Fracture Mechanics, Reliability, etc. - Surface Mounting Technology, Metallic Moulding, Logistic Systems, Inspection, Manufacturing Equipments
Material Science & Process	Advanced Materials Photo & Etch Process Cleaning & CMP Process Thin Film Science & Process Surface Science & Process Nano & Emerging Technology	<ul style="list-style-type: none"> - Metal, Ceramics, Polymer, Composite Material, Material Processing, Material Properties Electrical and Optical - Material Analysis technology - Beam Technology, Lithography, Resist, and other Patterning Technology Plasma Ion and Dry Etch Process & Nanofabrication Technology. - Chemical Mechanical Planarization, Cleaning Technology - Diffusion Process & Low-k /High-k Dielectric Film, Metallization Process Packaging Technology - Surface Treatment Process, Epitaxy, SOI, Shallow Junction Process - Nano Particles and Molecule Technology
Physical Devices & Science	Si & Compound Semiconductor Nano Devices Display Devices Optoelectronic Devices Basic Science	<ul style="list-style-type: none"> - including novel MOS devices, power devices, sensor - including carbon nano devices, bio/molecular devices, - including LCD, FDP, Field Emission displays, organic/inorganic EL - including LED, lasers, etc. - Physics, Mathematics
Energy & Environment	Battery & Energy Technology Environment Technology	<ul style="list-style-type: none"> - Fuel Cell, Li 2nd Battery, Solar Cell, Energy material design, Hydrogen Storage Materials - Water treatment, Waste treatment - CO2 storage and conversion
Bio Engineering & Life Science	Biological Science Biomedical Engineering	<ul style="list-style-type: none"> - Biochemistry, Cell biology, Physiology, Molecular genetics, Immunology, Microbial ecology - Biomedical sensor/sensor network, neural recording, implantable microsystems, ultra-low-power biomedical circuits, electrical MEMS devices - Medical imaging - Bioinformatics & health-care
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