2018 IEEE Taxonomy

Version 1.0



Created by
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(IEEE)



IEEE Taxonomy: A Subset Hierarchical Display of IEEE Thesaurus Terms

The IEEE Taxonomy comprises the first three hierarchical 'levels' under each term-family (or branch) that is formed from the top-most terms of the IEEE Thesaurus. In this document these term-families are arranged alphabetically and denoted by boldface type. Each term family's hierarchy goes to no more than three sublevels, denoted by indents (in groups of four dots) preceding the next level terms. A term can appear in more than one hierarchical branch and can appear more than once in any particular hierarchy. The IEEE Taxonomy is defined in this way so that it is always a subset of the 2018 IEEE Thesaurus.

Aerospace and electronic systems	Guns
-	Missiles
Aerospace control	Nuclear weapons
Air traffic control	Projectiles
Attitude control	Radar
Ground support	Airborne radar
Aerospace engineering	Bistatic radar
Aerospace biophysics	Cognitive radar
Aerospace electronics	Doppler radar
Aerospace safety	Ground penetrating radar
Air safety	Laser radar
Aerospace simulation	Meteorological radar
Aerospace testing	Millimeter wave radar
Wind tunnels	Multistatic radar
Artificial satellites	MIMO radar
Earth Observing System	Passive radar
Low earth orbit satellites	Radar applications
Military satellites	Radar countermeasures
Space stations	Radar detection
Space technology	Radar imaging
Payloads	Radar measurements
Space debris	Radar polarimetry
Space exploration	Radar remote sensing
Aerospace materials	Radar tracking
Aerospace components	Radar clutter
Aircraft manufacture	Radar cross-sections
Aircraft navigation	Radar equipment
Aircraft propulsion	Radar theory
Propellers	Spaceborne radar
Command and control systems	Spread spectrum radar
Electronic warfare	Synthetic aperture radar
Electronic countermeasures	Inverse synthetic aperture radar
Jamming	Polarimetric synthetic aperture
Radar countermeasures	radar
Military equipment	Ultra wideband radar
Military aircraft	Sensor systems
Payloads	Activity recognition
Military satellites	Gunshot detection systems
Military vehicles	Sonar
Weapons	Sonar applications



Sonar detection	Rectennas
Sonar measurements	Reflector antennas
Sonar equipment	Satellite antennas
Synthetic aperture sonar	Slot antennas
Telemetry	Transmission line antennas
Biomedical telemetry	Transmitting antennas
,	UHF antennas
Antennas and propagation	Yagi-Uda antennas
7 milemiae ama propaganom	Electromagnetic propagation
Antennas	Electromagnetic diffraction
Antenna accessories	Optical diffraction
Radomes	Physical theory of diffraction
Antenna arrays	X-ray diffraction
Adaptive arrays	Electromagnetic propagation in
Butler matrices	absorbing media
Linear antenna arrays	Electromagnetic reflection
Log periodic antennas	Optical reflection
Microstrip antenna arrays	Microwave propagation
Microwave antenna arrays	Millimeter wave propagation
Phased arrays	Optical propagation
Planar arrays	Optical surface waves
Antenna radiation patterns	Optical waveguides
Near-field radiation pattern	Propagation constant
Antenna theory	Propagation losses
Frequency selective surfaces	Radio propagation
Apertures	Radiowave propagation
Aperture antennas	Submillimeter wave propagation
Aperture coupled antennas	UHF propagation
Broadband antennas	Radio astronomy
Ultra wideband antennas	•
Vivaldi antennas	Broadcast technology
Dielectric resonator antennas	•
Dipole antennas	Broadcasting
Directional antennas	Digital audio broadcasting
Directive antennas	Digital audio players
Feeds	Digital Radio Mondiale
Antenna feeds	Digital multimedia broadcasting
Fractal antennas	Digital video broadcasting
Helical antennas	Motion pictures
Horn antennas	Radio broadcasting
Leaky wave antennas	Frequency modulation
Loaded antennas	Radio networks
Log-periodic dipole antennas	Satellite broadcasting
Microstrip antennas	Web TV
Microwave antennas	٧٧€₽ 1 ٧
	Circuite and eveteme
Mobile antennas	Circuits and systems
Multifrequency antennas	Oin with
Omnidirectional antennas	Circuits
Patch antennas	Active circuits
Radar antennas	Active inductors
Receiving antennas	Gyrators



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Operational amplifiers	Application specific integrated
Adders	circuits
Analog circuits	CMOS integrated circuits
Analog integrated circuits	Coprocessors
Analog processing circuits	Current-mode circuits
Application specific integrated circuits	Digital integrated circuits
System-on-chip	FET integrated circuits
Asynchronous circuits	Field programmable gate arrays
Bipolar transistor circuits	Hybrid integrated circuits
BiCMOS integrated circuits	Integrated circuit interconnections
Bipolar integrated circuits	Integrated circuit modeling
Bistable circuits	Integrated circuit noise
Latches	Integrated circuit synthesis
Bridge circuits	Large scale integration
Charge pumps	MESFET integrated circuits
Circuit analysis	Microprocessors
Circuit analysis computing	Microwave integrated circuits
Coupled mode analysis	Millimeter wave integrated circuits
Nonlinear network analysis	Mixed analog digital integrated
Circuit faults	circuits
Electrical fault detection	Monolithic integrated circuits
Circuit noise	Photonic integrated circuits
Thermal noise	Power integrated circuits
Circuit simulation	Radiofrequency integrated circuits
Circuit synthesis	Submillimeter wave integrated
High level synthesis	circuits
Integrated circuit synthesis	Superconducting integrated circuits
Coprocessors	Thick film circuits
Counting circuits	Thin film circuits
Coupling circuits	Three-dimensional integrated
Digital circuits	circuits
Circuit topology	Through-silicon vias
Digital integrated circuits	UHF integrated circuits
Digital signal processors	Ultra large scale integration
Distributed parameter circuits	Very high speed integrated circuits
Driver circuits	Very large scale integrated circuits
Electronic circuits	Wafer scale integration
Breadboard circuit	Isolators
Central Processing Unit	Large scale integration
Multivibrators	Ultra large scale integration
	Very large scale integration
Stripboard circuit	
Equivalent circuits	Wafer scale integrationLinear circuits
Feedback	
Feedback circuits	Logic arrays
Negative feedback	Programmable logic arrays
Neurofeedback	Logic circuits
Hybrid integrated circuits	Combinational circuits
Integrated circuits	Logic arrays
Analog integrated circuits	Programmable logic arrays
Analog-digital integrated circuits	Superconducting logic circuits
	Magnetic circuits



Microprocessors	Submillimeter wave integrated
Automatic logic units	circuits
Biomimetics	Summing circuits
Coprocessors	Switched circuits
Microcontrollers	Switched capacitor circuits
Microprocessor chips	Switching circuits
Vector processors	Choppers (circuits)
Microwave circuits	Logic circuits
Millimeter wave circuits	Switching converters
Millimeter wave integrated circuits	Zero current switching
Millimeter wave integrated circuits	Zero voltage switching
MIMICs	Thick film circuits
Monolithic integrated circuits	Thin film circuits
MIMICs	Thyristor circuits
MMICs	Time varying circuits
MOSFET circuits	Trigger circuits
CMOSFET circuits	UHF circuits
MOS integrated circuits	UHF integrated circuits
Power MOSFET	UHF integrated circuits
	Ultra large scale integration
Multiplying circuitsNonlinear circuits	Very large scale integration
Nonlinear network analysisPassive circuits	Neuromorphics
Phase shifters	Wafer scale integrationVHF circuits
Phase transformers	
	Voltage multipliers
Power dissipation	Capacitors
Power integrated circuits	Diodes
Printed circuits	Wafer scale integration
Flexible printed circuits	Contacts
Memory modules	Brushes
Programmable circuits	Contact resistance
Field programmable analog arrays	Ohmic contacts
Programmable logic arrays	Filtering
Programmable logic devices	Filters
Programmable logic arrays	Active filters
Programmable logic devices	Anisotropic
Pulse circuits	Bragg gratings
Flip-flops	Channel bank filters
Radiation detector circuits	Digital filters
Rail to rail operation	Equalizers
Rail to rail amplifiers	Filtering theory
Rail to rail inputs	Gabor filters
Rail to rail outputs	Harmonic filters
Rectifiers	IIR filters
RLC circuits	Kalman filters
Sampled data circuits	Low pass filters
Sequential circuits	Matched filters
Silicon-on-insulator	Microstrip filters
Silicon on sapphire	Nonlinear filters
Submillimeter wave circuits	Notch filters
	Particle filters



Power filtersReceiving antennas	
Resonator filtersRepeaters	
Spatial filtersSpeech codecs	
Superconducting filtersTelephone equipment	
Transversal filtersCellular phones	
Information filteringTelephone sets	
Information filtersVocoders	
Recommender systemsTransceivers	
Integrated circuit technologyRadio transceivers	
CMOS technologyTransmitters	
CMOS technologyAuxiliary transmitters	
Silicon on sapphireDiversity methods	
Moore's LawNeurotransmitters	
Logic devicesOptical transmitters	
Programmable logic devicesTransmitting antennas	
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Digital-controlled oscillatorsTV equipment	
Injection-locked oscillatorsLarge screen displaysTV receivers	
Microwave oscillatorsVideo codecs	
Phase noiseVideo equipment	
Ring oscillatorsOptical projectors	
Voltage-controlled oscillatorsVideo codecs	
Single electron devicesVideos	
Single electron memoryVocoders	
Hetero-nanocrystal memoryCommunication switching	
Single electron transistorsCode division multiplexing	
Tunable circuits and devicesElectronic switching systems	5
RLC circuitsFrame relay	
Tuned circuitsHandover	
Multiprotocol label switching	
Communications technologyPacket switching	
Burst switching	
Communication equipmentFrame relay	
Auditory displaysMultiprotocol label switchi	ng
CodecsPacket loss	
Speech codecsCommunication systems	
Video codecsARPANET	
Biomedical communication	
Optical communication equipmentBiomedical telemetry	
Optical transmittersTelemedicine	
Radio communication equipmentBroadband communication	
Base stationsB-ISDN	
Broadband amplifiers	
Land mobile radio equipmentCommunication networks	
Radio transceiversCentral office	
Cyberspace	
ReceiversIndustrial communication	
Optical receiversRelay networks	
RAKE receivers (telecommunications)	



Communication system control	Teleprinting
Telecommunication control	Visible light communication
	Device-to-device communication
Communication system securityDenial-of-service attack	
	Digital communication Baseband
Radio communication	
countermeasures	DICOM
Communication system signaling	Digital audio broadcasting
Received signal strength indicator	Digital images
Communication system software	Digital multimedia broadcasting
Streaming media	Digital video broadcasting
Communication system traffic	DSL
Communication system traffic control	ISDN
Computer networks	Passband
Ad hoc networks	Portable media players
Computer network management	SONET
Content distribution networks	Spread spectrum communication
Cyberspace	Facsimile
Diffserv networks	FDDI
Domain Name System	Indoor communication
Ethernet	Indoor environments
Google	Internet
Heterogeneous networks	Bot (Internet)
Internet	Botnet
Intserv networks	Crowdsourcing
IP networks	Instant messaging
Metropolitan area networks	Internet of Things
Multiprocessor interconnection	Internet security
networks	Internet telephony
Network function virtualization	Internet topology
Network security	Linked data
Network servers	Middleboxes
Next generation networking	Semantic Web
Overlay networks	Social computing
Peer-to-peer computing	Web 2.0
Software defined networking	Web services
Storage area networks	IP networks
Token networks	TCPIP
Unicast	ISDN
Virtual private networks	B-ISDN
Wide area networks	Local area networks
Wireless access points	Wireless LAN
Cross layer design	Machine-to-machine communications
Data buses	Metropolitan area networks
Backplanes	Microwave communication
Data communication	Rectennas
Asynchronous communication	Military communication
Asynchronous transfer mode	Reconnaissance
Data buses	MIMO communication
Data transfer	Rician channels
Telecommunication buffers	MISO communication
Telemetry	Mobile communication



3G mobile communication	Quality of service
4G mobile communication	Admission control
5G mobile communication	Radio communication
Ambient networks	Baseband
Dual band	Bluetooth
Land mobile radio	Indoor radio communication
Location awareness	Land mobile radio
Mobile learning	Millimeter wave communication
Mobile nodes	Near field communication
Mobile security	Packet radio networks
Software radio	Passband
Molecular communication	Personal area networks
Multiaccess communication	Radio broadcasting
Direct-sequence code-division	Radio communication
multiple access	countermeasures
Frequency division multiaccess	Radio frequency
Multicarrier code division multiple	Radio link
access	Radio spectrum management
Subscriber loops	Satellite communication
Time division multiple access	Satellite ground stations
Time division synchronous code	Software radio
division multiple access	ZigBee
Multicast communication	Regional area networks
Multicast VPN	WRAN
Multimedia communication	Routing
Narrowband	Wavelength routing
NOMA	Satellite communication
Optical fiber communication	Downlink
FDDI	Satellite broadcasting
Free-space optical communication	Satellite ground stations
Optical buffering	Uplink
Optical fiber networks	Satellite ground stations
Optical fiber subscriber loops	SIMO communication
Optical interconnections	SISO communication
Optical packet switching	Spatial diversity
Optical wavelength conversion	Submillimeter wave communication
Scheduling algorithms	Subscriber loops
SONET	Switching systems
Visible light communication	Electronic switching systems
Personal communication networks	Switching frequency
Protocols	Switching loss
Access protocols	Telecommunication switching
Asynchronous transfer mode	Synchronous digital hierarchy
Cryptographic protocols	Telecommunications
Master-slave	Ambient intelligence
Multicast protocols	Feedback communications
Multiprotocol label switching	IP networks
Routing protocols	Radio access networks
Transport protocols	Railway communication
Wireless application protocol	Space communications
Quality of experience	Telecommunication computing



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Telecommunication network	Electronic messaging
topology	Instant messaging
Telecommunication services	Unified messaging
Telematics	Postal services
Teleconferencing	Publish subscribe systems
Telegraphy	Voice mail
Telephony	Modulation
Teleprinting	Amplitude modulation
Teletext	Amplitude shift keying
Token networks	Quadrature amplitude modulation
UHF communication	Chirp modulation
Underwater communication	Demodulation
Videophone systems	Digital modulation
Videotex	Constellation diagram
Visual communication	Partial response signaling
Wide area networks	Frequency modulation
Wideband	Frequency shift keying
Wireless communication	Magnetic modulators
Cognitive radio	Modulation coding
Cooperative communication	Interleaved codes
GSM	Optical modulation
Open wireless architecture	Electrooptic modulators
Roaming	Intensity modulation
Smart devices	Phase modulation
Spatial diversity	Continuous phase modulation
WiMAX	Differential phase shift keying
Wireless access points	Phase shift keying
Wireless application protocol	Pulse modulation
Wireless application protection	Pulse width modulation
WRAN	Pulse width modulation inverters
Wireless mesh networks	Space vector pulse width
Wireless sensor networks	modulation
Body sensor networks	Multiplexing
Event detection	Code division multiplexing
Couplers	Demultiplexing
Directional couplers	Frequency division multiplexing
High-speed electronics	Multiplexing equipment
High-speed electronics	Add-drop multiplexers
High-speed integrated circuits	OFDM
Ultrafast electronics	
	Multiple access interferenceOFDM modulation
Image communicationFacsimile	
	Partial transmit sequences
Picture archiving and communication	Peak to average power ratio
systems	Time division multiplexing
Information and communication	Wavelength division multiplexing
technology	WDM networks
Ambient assisted living	Network topology
Message systems	Complex networks
Electronic mail	Computer network reliability
Unified messaging	Network architecture
Unsolicited electronic mail	Network function virtualization



Network slicing	Switched capacitor networks
Presence network agents	Varistors
TV	Structural plates
Cable TV	Switches
Digital TV	Contactors
Analog TV	Microswitches
HDTV	Optical switches
IPTV	Transducers
Mobile TV	Acoustic transducers
Smart TV	Biomedical transducers
Three-dimensional television	Capacitive transducers
Web TV	Chemical transducers
UHF technology	Inductive transducers
UHF antennas	Piezoelectric transducers
UHF circuits	Resistive transducers
UHF integrated circuits	Ultrasonic transducer arrays
UHF communication	Electronic equipment manufacture
UHF devices	Damascene integration
UHF integrated circuits	Micromachining
Ultra wideband technology	Radiation hardening (electronics)
Ultra wideband antennas	Semiconductor device manufacture
Últra wideband communication	Diffusion processes
Ultra wideband radar	Flip-chip devices
VHF devices	High-k gate dielectrics
٧١١١	Quasi-doping
Components, packaging, and	Semiconductor device doping
manufacturing technology	Semiconductor enitavial lavere
manufacturing technology	Semiconductor epitaxial layers
	Semiconductor growth
Component architectures	Semiconductor growthSilicidation
Component architecturesElectronic components	Semiconductor growthSilicidationWafer bonding
Component architecturesElectronic componentsCapacitors	Semiconductor growthSilicidationWafer bondingElectronics packaging
Component architecturesElectronic componentsCapacitorsPower capacitors	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packaging
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Component architecturesElectronic componentsCapacitorsPower capacitorsVaractorsCoilsSuperconducting coilsSuperconducting coilsDiodes	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packagingEnvironmentally friendly manufacturing techniquesIntegrated circuit manufactureSurface-mount technologyIntegrated circuit packagingMultichip modulesPlastic integrated circuit packaging
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Component architecturesElectronic componentsCapacitorsPower capacitorsCoilsSuperconducting coilsConnectorsPlugsSocketsDiodesDiode lasersElectrodesAnodes	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packagingEnvironmentally friendly manufacturing techniquesIntegrated circuit manufactureSurface-mount technologyIntegrated circuit packagingMultichip modulesPlastic integrated circuit packagingPlastic integrated circuit packagingSemiconductor device packagingThermal management of electronicsElectronic packaging thermal management
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Component architecturesElectronic componentsCapacitorsPower capacitorsVaractorsCoilsSuperconducting coilsConnectorsPlugsSocketsDiodesDiode lasersElectrodesAnodesCathodesKuses	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packagingEnvironmentally friendly manufacturing techniquesIntegrated circuit manufactureSurface-mount technologyIntegrated circuit packagingMultichip modulesPlastic integrated circuit packagingPlastic integrated circuit packagingSemiconductor device packagingThermal management of electronicsElectronic packaging thermal management
Component architecturesElectronic componentsCapacitorsPower capacitorsCoilsSuperconducting coilsConnectorsPlugsSocketsDiodesDiode lasersElectrodesAnodesAnodesAnodesAnodesAnodesAnodesAnodesAnodesActive inductors	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packagingEnvironmentally friendly manufacturing techniquesIntegrated circuit manufactureSurface-mount technologyIntegrated circuit packagingMultichip modulesPlastic integrated circuit packagingPlastic integrated circuit packagingSemiconductor device packagingThermal management of electronicsElectronic packaging thermal managementElectronics cooling Computational and artificial intelligence
Component architecturesElectronic componentsCapacitorsPower capacitorsVaractorsSuperconducting coilsPlugsPlugsSocketsDiodesDiode lasersElectrodesAnodesAnodesAnodesAnodesThick film inductors	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packagingEnvironmentally friendly manufacturing techniquesIntegrated circuit manufactureSurface-mount technologyIntegrated circuit packagingMultichip modulesPlastic integrated circuit packagingPlastic integrated circuit packagingPlastic integrated circuit packagingElectronic packaging thermal managementElectronics cooling Computational and artificial intelligenceArtificial intelligence
Component architecturesElectronic componentsCapacitorsPower capacitorsVaractorsCoilsSuperconducting coilsConnectorsPlugsSocketsDiodesDiode lasersElectrodesAnodesAnodesAntodesAntodesThick film inductorsActive inductorsThin film inductors	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packagingEnvironmentally friendly manufacturing techniquesIntegrated circuit manufactureSurface-mount technologyIntegrated circuit packagingMultichip modulesPlastic integrated circuit packagingPlastic integrated circuit packagingThermal management of electronicsElectronic packaging thermal managementElectronics cooling Computational and artificial intelligenceArtificial intelligenceAffective computing
Component architecturesElectronic componentsCapacitorsPower capacitorsVaractorsSuperconducting coilsPlugsPlugsSocketsDiodesDiode lasersElectrodesAnodesAnodesAnodesAnodesThick film inductors	Semiconductor growthSilicidationWafer bondingElectronics packagingChip scale packagingEnvironmentally friendly manufacturing techniquesIntegrated circuit manufactureSurface-mount technologyIntegrated circuit packagingMultichip modulesPlastic integrated circuit packagingPlastic integrated circuit packagingPlastic integrated circuit packagingElectronic packaging thermal managementElectronics cooling Computational and artificial intelligenceArtificial intelligence



Contact awareness	
Context awarenessHybrid intelligent systems	
Cooperative systemsGenetic algorithms	
Decision support systemsLogic	
Fuzzy logic	
Autonomous systemsFuzzy cognitive maps	
Collective intelligenceTakagi-Sugeno model	
Intelligent robotsMultivalued logic	
Knowledge based systemsProbabilistic logic	
Expert systemsSufficient conditions	
Mobile agentsMachine intelligence	
Knowledge engineeringPattern analysis	
Inference mechanismsNeural networks	
Knowledge acquisitionArtificial neural networks	
Knowledge discoveryConvolutional neural netw	orks
Knowledge representationHebbian theory	01110
Learning (artificial intelligence)Self-organizing feature ma	ins
Distance learningBiological neural networks	.po
Electronic learningCellular neural networks	
Nearest neighbor methodsFeedforward neural networks	
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BackpropagationMulti-layer neural networkNeural network hardware	
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Learning management systemsRecurrent neural networks	
Supervised learning	
Unsupervised learning Computers and information pro	cessing
Machine learning	
BoostingApproximate computing	
Dimensionality reductionComputer applications	
Application virtualization	
Statistical learningEdge computing	
Prediction methodsBig Data applications	
Bot (Internet)	
Predictive codingComputer aided analysis	
Predictive encodingComputer aided engineering	
Predictive modelsComputer aided instruction	
Virtual artifactLearning management sys	stems
Autonomous mental developmentComputer generated music	
Computational intelligenceComputer integrated manufa	cturing
Computation theoryControl engineering computi	ng
Green computing	
High energy physics instrumentHigh energy physics instrument	entation
Greedy algorithms computing	
Support vector machinesLinear particle accelerator	
Evolutionary computationKnowledge management	
Evolutionary roboticsKnowledge transfer	
Particle swarm optimizationMathematics computing	
Fuzzy systemsMatlab	
Fuzzy controlMedical information systems	
Fuzzy neural networksElectronic medical records	;



Military appropriate	Financina
Military computing	Firewire
Mobile applications	Haptic interfaces
Physics computing	Data gloves
Power engineering computing	Force feedback
Power system analysis computing	Grasping
Publishing	Hypertext systems
Bibliometrics	Input devices
Company reports	Interface phenomena
Desktop publishing	Network interfaces
Electronic publishing	Interface states
Open Access	Musical instrument digital interfaces
Scientific publishing	Ports (Computers)
Scientific computing	System buses
Telecommunication computing	Computer networks
Internetworking	Ad hoc networks
Soft switching	AODV
Virtual enterprises	Mesh networks
Virtual manufacturing	Mobile ad hoc networks
Virtual machining	Vehicular ad hoc networks
Web sites	Computer network management
Facebook	Computer network reliability
MySpace	Disruption tolerant networking
Uniform resource locators	Management information base
Web design	Middleboxes
YouTube	Network address translation
World Wide Web	Network synthesis
Bot (Internet)	Content distribution networks
Mashups	Cyberspace
Computer architecture	Diffserv networks
Accelerator architectures	Domain Name System
Data structures	Ethernet
Arrays	Energy efficient ethernet
Binary decision diagrams	EPON
Null value	Google
Octrees	Heterogeneous networks
Persistent identifiers	Interrogeneous networks
Table lookup	
Trable lookup Tree data structures	Bot (Internet) Botnet
Dynamic voltage scaling	Crowdsourcing
Memory architecture	Instant messaging
Memory management	Internet of Things
Multiprocessor interconnection	Internet security
Hypercubes	Internet telephony
Parallel architectures	Internet topology
Multicore processing	Linked data
Reconfigurable architectures	Middleboxes
Computer interfaces	Semantic Web
Application programming interfaces	Social computing
WebRTC	Web 2.0
Browsers	Web services
Field buses	Intserv networks



IP networksTCPIPMetropolitan area networksMultiprocessor interconnection networksNetwork function virtualizationNetwork securityNetwork securityNetwork securityNetwork serversNext generation networkingOverlay networksPeer-to-peer computingSoftware defined networkingSoftware defined networksToken networksUnicastVirtual private networksWirde area networksDenial-of-service attackWirde area networksDenial-of-service attackDenial-of-service attackDenial-of-serv	
Metropolitan area networks Multiprocessor interconnection networks Network function virtualization Network security Network security Network servers Next generation networking Overlay networks Peer-to-peer computing Software defined networking Token networks Virtual private networks Wireless access points Computer rerors Computer rerors Computer rerors Computer performance Computer performance Computer peripherals Disk drives Performance loss Computer science Computer science Computer languages Runtime library Network theory (graphs) Programming Augmented reality Automatic programming Microprogramming Microprogramming Object oriented methods Perogramming Performance analysis Perogramming Opportunistic software systems development Performance analysis Performance analysis Performance on the working Copputer facking Coputer hacking Coputer hacking Coputer hacking SQL injection Coputer hacking SQL injection Coputer hacking Coputer hacking Coputer sperioms SQL injection Coputer hacking Coputer serion Coputer seriors Coputer speriors Logic previate Analog computers Coputer berorize attack Distributed denial-of-serv Coputer or sever and was access points Coputer or sever a	
Multiprocessor interconnection networksNetwork function virtualizationNetwork securityNetwork serversNetwork generation networkingOverlay networksDerer-to-peer computingSoftware defined networkingSoftware defined networksToken networksUnicastUnicastUnicastWirtual private networksWirtual private networksWirde area networksWireless access pointsComputer performanceComputer crashesDistributed denial-of-servComputer performanceComputer performanceComputer peripheralsDisk drivesKeyboardsModemsPrintersComputer scienceComputer scienceComputer languagesComputer languagesComputer languagesRuntime libraryNetwork theory (graphs)ProgrammingAugmented realityAugmented realityAugmented realityAugmented realityAugmented realityDerect oriented methodsDiject oriented methodsDeta systemsData acquisitionData computersData computersData computersData computersData compressionData compressionData compressionData compressionData compressionData compressionData compressionData compression	
Networks	
Network security Network security Network servers Next generation networking Network servers Network security Ne	
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Network servers Next generation networking Next generation networks Next generation networks Next generation networks Networks Neer-to-peer computing Software defined networking Storage area networks Unicast Unicast Virtual private networks Nireless access points Computer performance Computer performance Computer rerors Computer performance Neworks Nework dives Neyboards Nework theory (graphs) Programming Automatic programming Microprogramming Object oriented methods Next age and tworks Software defined networks Coyber expining Cyber expining Cyber warfare Cyber expining Capher spining Copheration Cyber expining Copheration Cyber expining Copheration Cyber warfare Cyber warfare Cyber expining Copheration Cyber warfare Cyber warfare Cyber warfare Cyber expining Cyber defined hemoris Cyber expining Cyber expining Cyber expining Cyber warfare Cyber antack Cyber antack Cyber antack Cyber ant	
Next generation networking Overlay networks Peer-to-peer computing Software defined networking Storage area networks Unicast Unicast Virtual private networks Wide area networks Wireless access points Computer performance Computer errors Computer crashes Computer peripherals Reyboards Modems Perinters Computer science Computer languages Computer languages Runtime library Network theory (graphs) Programming Augmented reality Automatic programming Copportunistic software systems development Parallel programming Opportunistic software systems development Programming perfersion Data compression Computer scientes Computer software systems development Parallel programming Optor or intered treating Computers Conducter peripherals Computer science Analog computers Calculators Moroscapter science Calculators Microcomputers Mearable Computers Supercomputers Mearable Computers Concurrency control Data compression Adaptive coding	
Overlay networks Computer hacking Countermeasures (compute Constituting Constituting Constituting Constituting Constituting Constituting Constituting Constituting Computer networks Cyber warfare Cyber attack Cyber warfare Calculato Interprity Legislow Pensitole denial-of-serv Interprity Legislow Pensitole denial-of-serv Interprity Legislo-service Mobile security Penstrukt denial-of-serv	
Peer-to-peer computing Software defined networking Storage area networks Unicast Unicast Storage area networks Uritual private networks Extranets Size access points Computer performance Computer rors Computer crashes Size access Size sorthing Computer performance Size access points Computer performance Size access points Size denial of-service attack Size access points Size acces acces points Size acces acces points Size acce	
Software defined networking Storage area networks Token networks Superattack Suritual private networks Suritual private Suritual private networks Suritual private Suritual private networks Suritual private Suritual private Suritual private networks Suritual private Suritual private Suritual private Suritual private Suritual private networks Suritual private Suritual Suritual private Suritual private Suritual private denial-of-serv Suritual privation Suritual privation Suritual privation Suritual privation Suritual privation Suritual private denial-of-serv	
Storage area networks Token networks Unicast Unicast Wirtual private networks Extranets Wide area networks Wireless access points Computer performance Computer errors Computer peripherals Performance loss Modems Printers Computer science Computer science Computer languages Runtime library Network theory (graphs) Programming Augmented reality Automatic programming Corate and works Microprogramming Microprogramming Microprogramming Microprogramming Microprogramming Microprogramming Moportunistic software systems development Programming profession Modapt and the visual and the visual and the sign and the s	er)
Extranets	
Wireless access pointsComputer performanceComputer errorsComputer crashes	
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Performance analysisData compressionAdaptive coding	
Programming professionAdaptive coding	
Robot programmingAudio compression	
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Huffman codingLocal area networks	
Source codingWireless LAN	
Test data compressionMetropolitan area networl	(S
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Data conversionVirtual artifact	
Analog-digital conversionDistributed computing	
Digital-analog conversionClient-server systems	
Data engineeringMiddleware	
Data handlingServers	
Data assimilationCollaborative work	
Data disseminationCollaborative intelligen	
Data encapsulationCooperative communic	ation
Data integrityCrowdsourcing	
Document handlingSocial computing	
Diffserv networks	
SortingDistributed databases	
Data processingDistributed information sy	stems
Associative processingDistributed manageme	nt
Business data processingPublish-subscribe	
Data analysisInternet	
Data collectionBot (Internet)	
Data integrationBotnet	
Data preprocessingCrowdsourcing	
Data transferInstant messaging	
Information exchangeInternet of Things	
Spreadsheet programsInternet security	
Text processingInternet telephony	
Virtual enterprisesInternet topology	
Data storage systemsLinked data	
Triples (Data structure)Middleboxes	
Data warehousesSemantic Web	
Data warehousesSocial computing	
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5 1	
InternetMetacomputing	
Bot (Internet)Grid computing	
BotnetPeer-to-peer computing	
CrowdsourcingDNA computing	
Instant messagingFile servers	
Internet of ThingsHardware	
Input devices	
Open source hardware	
Reconfigurable devices	
Linked dataWireless access points	
MiddleboxesHigh performance computing	g
Semantic WebImage processing	
Social computingActive shape model	
Blob detection	
Web servicesCorner detection	
Feature extraction	
B-ISDNFiducial markers	

Geophysical image processing	Computer buffers
Gray-scale	Cache memory
Image analysis	Cache storage
Image classification	Content addressable storage
_	Flash memories
Image motion analysis	
Image quality	Flash memory cells
Image sequence analysis	Magnetic memory
Image texture analysis	Floppy disks
Object detection	Hard disks
Subtraction techniques	Memory management
Image annotation	Nonvolatile memory
Image capture	Nonvolatile single electron memory
Image coding	Phase change memory
Image color analysis	Phase change random access
Image decomposition	memory
Image denoising	Random access memory
Image enhancement	DRAM chips
Image filtering	Phase change random access
Image fusion	memory
Image generation	Resistive RAM
Plasma displays	SDRAM
Visual effects	SRAM cells
Image recognition	SRAM chips
Image edge detection	Read only memory
Image reconstruction	PROM
Image registration	Read-write memory
Image representation	Registers
Image resolution	Shift registers
High-resolution imaging	Scanning probe data storage
Spatial resolution	Semiconductor memory
Image restoration	Mobile computing
Image sampling	Wireless access points
Image segmentation	Molecular computing
Image segmentation	Multitasking
Thresholding (Imaging)	Parametric study
Image sequences	Open systems
Image texture	Open Access
Machine vision	Public domain software
Object recognition	Open Educational Resources
Object readymater	Physical layer
Morphological operations	Physical layer security
Optical feedback	Optical computing
Saliency detection	Parallel processing
•	
Smart pixels	Multiprocessing systemsData flow computing
Spatial coherenceStructure from motion	
	Processor scheduling
Table lookup	Systolic arrays
Memory	Multithreading
Analog memory	Parallel algorithms
Associative memory	Pipeline processing
Buffer storage	Pattern recognition



Activo shana madal	Public domain software
Active shape model	
Activity recognitionCharacter recognition	Software agents Agent-based modeling
•	
Clustering methods	Autonomous agents
Pattern clustering	Botnet
Data mining	Intelligent agents
Anomaly detection	Software as a service
Association rules	Software debugging
Data privacy	Software design
Text analysis	Software maintenance
Text mining	Software packages
Web mining	EMTDC
Face recognition	PSCAD
Fingerprint recognition	SPICE
Gesture recognition	Software performance
Sign language	Software quality
Handwriting recognition	Software reusability
Forgery	Software safety
Nearest neighbor methods	Software systems
Pattern matching	Software tools
Image matching	Authoring systems
Speech recognition	System software
Automatic speech recognition	File systems
Speech analysis	Operating systems
Text recognition	Program processors
Pervasive computing	Utility programs
Ubiquitous computing	Software engineering
Context-aware services	Capability maturity model
Wearable computers	Computer aided software engineering
Petascale computing	Formal verification
Platform virtualization	Programming environments
Probabilistic computing	Reasoning about programs
Probability computing	Runtime
Quantum computing	Dynamic compiler
Quantum cellular automata	Runtime environment
Real-time systems	Software architecture
Telexistence	Client-server systems
WebRTC	Microarchitecture
Software	Representational state transfer
Anti-virus software	Software libraries
Application software	Software infancs
Embedded software	System recovery
Invasive software	Checkpointing
Computer viruses	
·	Core dumps
Computer worms Middleware	Debugging
	Time sharing computer systems
Mediation	Virtual machine monitors
Message-oriented middleware	
Open source software	
Optical character recognition software	



Consumer electronics	Switches
	Contactors
Ambient intelligence	Microswitches
Audio systems	Optical switches
Audio tapes	Switchgear
Audio-visual systems	Circuit breakers
Auditory displays	Interrupters
Headphones	Relays
Loudspeakers	Telecontrol equipment
Microphones	Thermostats
Microphone arrays	Control system synthesis
Pitch control (audio)	Controllability
Portable media players	Cruise control
Sonification	Decentralized control
Home automation	Distributed parameter systems
Portable media players	Delay systems
Refrigerators	Added delay
Smart homes	Delay lines
Washing machines	Digital control
Home computing	Programmable control
Low-power electronics	Flow graphs
Microwave ovens	Fault tolerant control
Multimedia systems	Feedback
Multimedia communication	Feedback circuits
Multimedia computing	Output feedback
Multimedia databases	Negative feedback
Control systems	Neurofeedback
Automatic control	Feedback linearization
Power generation control	Fluid flow control
Automatic generation control	Fluidics
Bidirectional control	Microfluidics
Brakes	Nanofluidics
CAMAC	Gaze tracking
Centralized control	Electrooculography
Closed loop systems	Homeostasis
Control design	Linear feedback control systems
Control engineering	Frequency locked loops
Control equipment	Phase locked loops
Actuators	State feedback
Dielectric elastomer actuators	Tracking loops
Electrostatic actuators	Magnetic variables control
Hydraulic actuators	Mechanical variables control
Intelligent actuators	Displacement control
Microactuators	Force control
Piezoelectric actuators	Level control
Pneumatic actuators	Gyroscopes
Fasteners	Motion control
Microcontrollers	Collision avoidance
Regulators	Collision mitigation
Servosystems	Kinetic theory
Servomotors	Motion planning



Path planning	Dielectrics and electrical insulation
Visual servoing	D: 1 4:
Pitch control (position)	Dielectrics
Position control	Dielectric constant
Nanopositioning	High-k gate dielectrics
Shape control	Dielectric devices
Size control	Capacitors
Strain control	Ferroelectric devices
Stress control	Piezoelectric devices
Thickness control	Pyroelectric devices
Torque control	Dielectric losses
Velocity control	Dielectric substrates
Angular velocity control	Dielectrophoresis
Vibration control	Electrohydrodynamics
Weight control	Electrokinetics
Medical control systems	Electrostriction
Moisture control	Electric breakdown
Humidity control	Avalanche breakdown
Motion compensation	Corona
Networked control systems	Dielectric breakdown
Nonlinear control systems	Arc discharges
Open loop systems	Discharges (electric)
Optical control	Electrostatic discharges
Lighting control	Flashover
Optical variables control	Glow discharges
Optimal control	Partial discharges
Bang-bang control	Surface discharges
Infinite horizon	Vacuum breakdown
PD control	Sparks
PI control	Insulation
Pneumatic systems	Cable insulation
Positive train control	Power cable insulation
Pressure control	Ceramics
Proportional control	Porcelain
Radio control	
Robot control	Gas insulation Sulfur hexafluoride
Robot motion	Insulators
SCADA systems	Metal-insulator structures
Sensorless control	Plastic insulators
Sliding mode control	Rubber
Supervisory control	Topological insulators
SCADA systems	Trees - insulation
Thermal variables control	Isolation technology
Temperature control	Oil insulation
Cooling	Oil filled cables
Heating systems	Plastic insulation
Thermal analysis	
Thermomechanical processes	Education
Traffic control	
Queueing analysis	Adaptive learning
Vehicle routing	Career development



Continuing education	Air gaps
Jobs listings	Characteristic mode analysis
Mentoring	Computational electromagnetics
Education courses	Delay effects
Curriculum development	Electromagnetic fields
Open Educational Resources	Electromagnetic forces
Educational institutions	Electromagnetic refraction
Educational programs	Permeability
Accreditation	Spark gaps
Continuing education	Time-domain analysis
Pre-college programs	Electromagnetic coupling
Scholarships	Mutual coupling
Self-study courses	Optical coupling
Seminars	Electromagnetic devices
Webinars	Baluns
STEM	Electromagnetic induction
Tutorials	Eddy currents
Educational technology	Inductive power transmission
Computer aided instruction	Electromagnetic metamaterials
Learning management systems	Terahertz metamaterials
Courseware	
Electronic learning	Electromagnetic radiationBremsstrahlung
Mobile learning	Correlators
Engineering education	
Biomedical engineering education	Electromagnetic wave absorption
Communication engineering education	Frequency
Computer science education	Gamma-rays
	Line-of-sight propagation
Control engineering education	Electromagnetic shieldingCable shielding
Electrical engineering education	
Electronics engineering education	Magnetic shielding
Engineering students	Electromagnetic transientsEMP radiation effects
Physics education	
Power engineering education	EMTDC
Student experiments	EMTP
Systems engineering education	Power system transients
Training	Surges
Certification	Proximity effects
Industrial training	Interference
Management training	Clutter
On the job trainingQualifications	Crosstalk
	Diffraction
Vocational training	Echo interference
	Electromagnetic interference
Electromagnetic compatibility and	Radiofrequency interference
interference	Specific absorption rate
	Electromagnetic radiative interference
Electromagnetic compatibility	Electrostatic interference
Immunity testingReverberation chambers	Immunity testingInterchannel interference
Electromagnetics	Interference cancellation
Electromagnetic analysis	Interference channels



Interference constraints	Junctions
Interference elimination	Heterojunctions
Interference suppression	Hybrid junctions
Intersymbol interference	P-n junctions
Rain fading	Waveguide junctions
Terrain factors	MIS devices
TV interference	Charge coupled devices
	MOS devices
Electron devices	MONOS devices
	Piezoresistive devices
Cathode ray tubes	P-i-n diodes
Electron guns	Power semiconductor devices
Electron multipliers	Power transistors
Electron tubes	Power semiconductor switches
Field emitter arrays	Bipolar transistors
Klystrons	Thyristors
Magnetrons	Quantum dots
Thyratrons	Quantum well lasers
Mechatronics	Quantum cascade lasers
Biomechatronics	Schottky diodes
Microelectromechanical systems	Semiconductor counters
Microelectromechanical devices	Semiconductor detectors
Microactuators	Semiconductor device modeling
Micromotors	Semiconductor device noise
Micropumps	Semiconductor diodes
Microvalves	P-i-n diodes
Radiofrequency	Schottky diodes
microelectromechanical systems	Semiconductor-metal interfaces
Microfluidics	Superluminescent diodes
Micromechanical devices	Varactors
Biomedical microelectromechanical	Semiconductor lasers
systems	Laser tuning
Fluidic microsystems	Quantum dot lasers
Microfabrication	Quantum well lasers
Photoelectricity	Semiconductor laser arrays
Photovoltaic effects	Semiconductor optical amplifiers
Shunts (electrical)	Surface emitting lasers
Photovoltaic cells	Semiconductor waveguides
Light trapping	Semiconductor-insulator interfaces
Quantum computing	Silicon devices
Quantum cellular automata	SONOS devices
Quantum well devices	Superluminescent diodes
Quantum well lasers	Surface emitting lasers
Quantum cascade lasers	Vertical cavity surface emitting
Quantum wells	lasers
Two dimensional hole gas	Thermistors
Semiconductivity	Transistors
Semiconductor devices	Field effect transistors
Flip-chip devices	Heterojunction bipolar transistors
Gunn devices	Millimeter wave transistors
Hall effect devices	Phototransistors



Ctatic industion translators	Croon docina
Static induction transistors	Green design
Single electron devices	Ecodesign
Single electron memory	Green computing
Hetero-nanocrystal memory	Integrated design
Single electron transistors	Process design
Thick film devices	Pattern formation
Thick film inductors	Process modeling
Thin film devices	Product design
Film bulk acoustic resonators	Prototypes
Thin film inductors	Rapid prototyping
Thin film transistors	Technical drawing
Organic thin film transistors	Time to market
Tunneling	User centered design
Gate leakage	Virtual prototyping
Josephson effect	1 71 3
Magnetic tunneling	Engineering – general
Resonant tunneling devices	3 3 3 3
Tunneling magnetoresistance	Acoustical engineering
Vacuum technology	Agricultural engineering
Photomultipliers	Chemical engineering
Vacuum electronics	Civil engineering
Vacuum systems	Railway engineering
Gettering	Railway safety
Gettering	Structural engineering
Electronic design automation and	Offshore installations
methodology	
memodology	Concurrent engineeringDesign engineering
Design automation	
Design automation CADCAM	Design tools
	Electrical engineering
Logic design	Electrical engineering computing
Reconfigurable logic	Engineering profession
PSCAD	Professional aspects
Design methodology	Environmental engineering
Design for disassembly	Maintenance engineering
Design for experiments	Maintenance management
Design for manufacture	Predictive maintenance
Design for quality	Preventive maintenance
Design for testability	Condition monitoring
Design standards	Systems support
Design tools	Mechanical engineering
Graphics	Mechanical power transmission
Animation	Torque converters
Art	Mechanical systems
Character generation	Mechanical energy
Computer graphics	Micromechanical devices
Engineering drawings	Optical engineering
Layout	Precision engineering
Shape	Production engineering
Symbols	Production planning
Virtual reality	Capacity planning
Visualization	Materials requirements planning



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Process planning	Biophysics
Research and development	Aerospace biophysics
Reverse engineering	Biomagnetics
Sanitary engineering	Cellular biophysics
Standardization	Molecular biophysics
Formal specifications	Cryobiology
Guidelines	Evolution (biology)
Standards	Memetics
Standards categories	Phylogeny
Standards Organizations	Genetics
Standards organizations	DNA
Standards publications	Gene therapy
Thermal engineering	Genetic communication
3	Genetic expression
Engineering in medicine and biology	Genetic programming
gg	Genomics
Bioinformatics	Homeostasis
Neuroinformatics	Microinjection
Biology	Nanobioscience
Biochemistry	DNA computing
Amino acids	Nanobiotechnology
Biochemical analysis	Physiology
Peptides	Action potentials
Proteins	External stimuli
Receptor (biochemistry)	Neuromodulation
Biodiversity	Predator prey systems
Biogeography	Synthetic biology
Bioelectric phenomena	Systematics
Electric shock	Systems biology
Biological cells	Vegetation
Cell signaling	Crops
Cells (biology)	Marine vegetation
Chromosome mapping	Zoology
Fibroblasts	Animals
RNA	Biomedical communication
Stem cells	Biomedical telemetry
Biological information theory	Telemedicine
Biological processes	Biomedical computing
Biological interactions	Biomedical informatics
Chronobiology	Medical expert systems
Circadian rhythm	Medical information systems
Coagulation	Electronic medical records
Molecular biology	Biomedical engineering
Symbiosis	Bioimpedance
Biological system modeling	Biological techniques
Biological systems	Biomedical applications of radiation
Anatomy	Biomedical electronics
Molecular communication	Biomedical signal processing
Organisms	Biomedical image processing
Biology computing	Biotechnology
Biophotonics	Cloning
biopriotoriios	Oloriilig



Deve deliver	Diamenata alamata mu
Drug delivery	Bionanotechnology
Targeted drug delivery	Bioterrorism
Neural engineering	Computational biology
Neural microtechnology	Computational biochemistry
Neural nanotechnology	Computational biophysics
Neural prosthesis	Computational systems biology
Protein engineering	Genetic engineering
Tissue engineering	Medical services
Regeneration engineering	Assisted living
Biomedical equipment	Ambient assisted living
Assistive technology	Catheterization
Assistive devices	Clinical diagnosis
Wheelchairs	Clinical neuroscience
Biomedical electrodes	Cybercare
Biomedical telemetry	Electronic healthcare
Biomedical transducers	Health information management
Catheters	Hospitals
Cybercare	In vitro
Endoscopes	In vitro fertilization
Gerontechnology	In vivo
Hypodermic needles	Medical conditions
Implants	Aneurysm
Auditory implants	Atrophy
Brainstem implants	Autism
Cochlear implants	Blindness
Microelectronic implants	Cataracts
Neural implants	Deafness
Intracranial pressure sensors	Diabetes
Lithotriptors	Diseases
Medical instruments	Hemorrhaging
Pacemakers	Hypertension
Stethoscope	Hyperthermia
Surgical instruments	Injuries
Laparoscopes	Kidney stones
Biomedical imaging	Obesity
Angiocardiography	Pregnancy
Angiography	Sleep apnea
Biomedical optical imaging	Thrombosis
Cardiography	Tumors
Echocardiography	Medical diagnosis
Electrocardiography	Autopsy
Phonocardiography	Bronchoscopy
DICOM	Colonography
Elastography	Computer aided diagnosis
Encephalography	Medical signal detection
Mammography	Nanomedicine
Medical diagnostic imaging	Plethysmography
Anatomical structure	Sensitivity and specificity
Molecular imaging	Medical tests
Phantoms	Amniocentesis
Photoacoustic imaging	
ที่เบลบบนจแบ แกลงแก้	Biopsy



Cancer detection	Dermatology
Colonoscopy	Gastroenterology
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Pregnancy test Medical treatment	Gerontology
	Gerontechnology
Anesthesia	Gynecology
Angioplasty	Neonatology
Brachytherapy	Neurology
Brain stimulation	Oncology
Chemotherapy	Pathology
Clinical trials	Neuropathology
Cryotherapy	Pathological processes
Defibrillation	Pediatrics
Dentistry	Nuclear medicine
Electrical stimulation	Synthetic biology
Electronic medical prescriptions	
Embolization	Engineering management
Fibrillation	
Geriatrics	Business
Hepatectomy	Business data processing
Hospitals	Business intelligence
Hyperthermia	Entrepreneurship
Lithotripsy	Industrial relations
Magnetic stimulation	Management
Neuromuscular stimulation	Asset management
Neutron capture therapy	Best practices
Noninvasive treatment	Business continuity
Orthopedic procedures	Business process management
Orthotics	Business process re-engineering
Patient rehabilitation	Communication system operations
Pharmaceuticals	and management
Proton therapy	Conference management
Surgery	Conterence management
Occupational medicine	
Prosthetics	Contingency management
	Contract management
Artificial biological organs	Contracts
Artificial limbs	Customer relationship management
Prosthetic hand	Decision making
Prosthetic limbs	Dependability management
Visual prosthesis	Distributed management
Public healthcare	Enterprise resource planning
Sensory aids	Facilities management
Hearing aids	Financial management
Vaccines	Governmental factors
X-rays	Human resource management
X-ray applications	Information management
X-ray detection	Interface management
X-ray scattering	International collaboration
X-ray tomography	Knowledge management
Medical specialties	Marketing management
Cardiology	Organizational aspects
Cardiac tissue	Outsourcing



Process planning	Stock markets
Process planning	
Production management	Supply and demand
Program management	Trade agreements
Project management	Venture capital
Public relations	Virtual enterprises
Quality management	Innovation management
Requirements management	Creativity
Research and development	Legal factors
management	Copyright protection
Resource management	Intellectual property
Risk analysis	Software protection
Safety management	Law
Security management	Censorship
Storage management	Commercial law
Supply chain management	Consumer protection
Technical management	Contract law
Technology management	Criminal law
Operations research	Employment law
Inventory control	Forensics
Virtual enterprises	Law enforcement
Organizations	Patent law
BNSC	Trademarks
Companies	Patents
Government	Product liability
Sociotechnical systems	Warranties
Commercialization	Software protection
Consortia	Trademarks
Economics	Market research
Costs	Planning
Cost benefit analysis	Meeting planning
Econometrics	Schedules
Economic forecasting	Strategic planning
Economic indicators	Technical planning
Share prices	Technology planning
Electronic commerce	Product development
Environmental economics	Graphical user interfaces
Carbon tax	Avatars
Exchange rates	Product customization
Fuel economy	Product life cycle management
International trade	Prognostics and health
Macroeconomics	management
Privatization	Software product lines
Microeconomics	Time to market
Economies of scale	Project engineering
Industrial economics	Scheduling
Monopoly	Adaptive scheduling
Oligopoly	Dynamic scheduling
Power generation economics	Job shop scheduling
Electricity supply industry	Single machine scheduling
deregulation	Research and development
Profitability	management



Research initiatives Software development management Agile software development Agile software development Scrum (Software development) Model-driven development Europe North America South Pole Artici Ocean salinity Ocean temperature Sea lovel America South Sou	lan avatian manananant	A time a such a via viva via
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IEEE governance	Angiography
IEEE bylaws	Biomedical optical imaging
IEEE Constitution	Cardiography
IEEE mission and vision	Echocardiography
IEEE policy and procedures	Electrocardiography
IEEE staff	Phonocardiography
IEEE indexing	DICOM
Awards	Elastography
Book reviews	Encephalography
CD-ROM reviews	Mammography
Editorials	Medical diagnostic imaging
Interviews	Anatomical structure
Obituaries	Molecular imaging
Software reviews	Phantoms
Special issues and sections	Photoacoustic imaging
Tutorials	Cameras
Video reviews	Digital cameras
IEEE members	Smart cameras
IEEE Associate Members	Webcams
IEEE Fellows	Focusing
IEEE Life Members	Ground penetrating radar
IEEE Senior Members	Holography
IEEE Student Members	Image converters
IEEE news	Image intensifiers
IEEE Chapter news	Image sensors
IEEE Region news	Active pixel sensors
IEEE Section news	CCD image sensors
IEEE Society news	Charge-coupled image sensors
IEEE products	CMOS image sensors
IEEE audio tapes	Infrared image sensors
IEEE catalogs	Image storage
IEEE educational products	Infrared imaging
IEEE merchandise	Night vision
IEEE publications	Magnetic resonance imaging
IEEE books	Diffusion tensor imaging
IEEE conference proceedings	Functional magnetic resonance
IEEE directories	imaging
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IEEE magazines	Magneto electrical resistivity imaging
IEEE newsletters	technique
IEEE online publications	Microscopy
IEEE standards publications	Atomic force microscopy
IEEE transactions	Electron microscopy
Notice of Violation	Photoelectron microscopy
IEEE Xplore	Scanning electron microscopy
IEL	Transmission electron microscopy
	Scanning microwave microscopy
Imaging	Scanning probe microscopy
- G - G	Scanning thermal microscopy
Biomedical imaging	Microwave imaging
Angiocardiography	Multispectral imaging
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Nuclear imaging	CADCAM
Energy resolution	Silicon compiler
Optical imaging	Computer integrated manufacturing
Optical flow	Computer numerical control
Optical projectors	Flexible manufacturing systems
Talbot effect	Testing
Thermoreflectance imaging	Aerospace testing
Photography	Wind tunnels
Cinematography	Automatic testing
Digital photography	Automatic test pattern generation
Image forensics	Ring generators
Photomicrography	Benchmark testing
Radiation imaging	Built-in self-test
Radiography	Circuit testing
Diagnostic radiography	Integrated circuit measurements
Stereo vision	Electronic equipment testing
Stereo image processing	Immunity testing
Tomography	Error analysis
Computed tomography	Bit error rate
Single photon emission computed	Finite wordlength effects
tomography	Error-free operations
Electrical capacitance tomography	Failure analysis
Optical coherence tomography	Equipment failure
Positron emission tomography	Semiconductor device breakdown
Whole-body PET	Frequency response
Reconstruction algorithms	Impulse testing
	Insulator testing
Industrial electronics	Insulation testing
	Integrated circuit testing
Assembly systems	Integrated circuit yield
Flexible electronics	Logic testing
Robotic assembly	Life testing
Computer aided manufacturing	Materials testing
CADCAM	Accelerated aging
Silicon compiler	Acoustic testing
Cryogenic electronics	Adhesive strength
Industrial control	Bonding forces
Process control	Delamination
Predictive control	Elastic recovery
Three-term control	Nondestructive testing
Two-term control	Optical fiber testing
Production control	Remaining life assessment
Continuous production	Ring generators
Lot sizing	Semiconductor device testing
Optimized production technology	Software testing
Scheduling	Fuzzing
Integrated manufacturing systems	System testing
Machine control	Model checking
Machine vector control	Test equipment
Manufacturing automation	Automatic test equipment
Computer aided manufacturing	Test facilities



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Anechoic chambers	Electrostatic analysis
Laboratories	Electrostatic induction
Large Hadron Collider	Electrostatics
Open area test sites	Electrostatic levitation
TEM cells	Particle charging
Wind tunnels	Particle production
	Space charge
Industry applications	Surface charging
	Triboelectricity
Accident prevention	Triboelectricity
Accidents	Engines
Aerospace accidents	Heat engines
Electrical accidents	Steam engines
Industrial accidents	Stirling engines
Marine accidents	Internal combustion engines
Railway accidents	Diesel engines
Road accidents	Ignition
Chemical technology	Jet engines
Chemical reactors	Environmental management
Bioreactors	Biodegradation
Continuous-stirred tank reactor	Biodegradable materials
Ignition	Land use planning
Chemical sensors	Pest control
Crystallizers	Pollution control
Distillation equipment	Recycling
Fluidization	Renewable energy sources
Pharmaceutical technology	Biomass
Vitrification	Sustainable development
Cryogenics	Waste management
Electrochemical devices	Waste disposal
Amperometric sensors	Waste handling
Batteries	Waste recovery
Lead acid batteries	Waste reduction
Lithium batteries	Water conservation
Lithium-ion batteries	Desalination
Nickel cadmium batteries	Water resources
Solid state batteries	Desalination
Battery management systems	Reservoirs
Fuel cells	Food technology
Supercapacitors	Food preservation
Electrochemical processes	High-temperature techniques
Electromechanical systems	Rapid thermal processing
Cruise control	Industrial engineering
Electromechanical devices	Industrial communication
Armature	Industries
SAW filters	Agriculture
Electrostatic devices	Agricultural products
Electrostatic precipitators	Aquaculture
Electrostatic processes	Fertilizers
Aerosols	Greenhouses
Electrophotography	Irrigation



Architecture	Power system interconnection
Banking	Steel industry
Online banking	Sugar industry
Beverage industry	Sugar refining
Chemical industry	Textile technology
Coal industry	Spinning
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Communication industry	Weaving
Computer industry	Toy industry
Construction	Transportation industry
Buildings	Wood industry
Green buildings	Inspection
Modular construction	Automatic optical inspection
Prefabricated construction	Machinery
Construction industry	Agricultural machinery
Prefabricated construction	Ball bearings
Defense industry	Belts
Electrical engineering industry	Drives
Entertainment industry	Hydraulic drives
Gas industry	Motor drives
Information industry	Variable speed drives
Manufacturing industries	Electric machines
Aerospace industry	AC machines
Cement industry	Alternators
Ceramics industry	Brushless machines
Clothing industry	Compressors
Electrical products industry	Conductors
Electronics industry	DC machines
Food industry	Electric fences
Footwear industry	Generators
Fuel processing industries	Permanent magnet machines
Glass industry	Rotating machines
Machinery production industries	Rotors
Metal product industries	Stators
Plastics industry	Washing machines
Pulp and paper industry	Fans
Rubber industry	Furnaces
Shipbuilding industry	Blast furnaces
Textile industry	Kilns
Toy manufacturing industry	Gears
Metals industry	Magnetic gears
Mining industry	Hydraulic systems
Coal mining	Electrohydraulics
Natural gas industry	Hydraulic equipment
Petroleum industry	Hydraulic fluids
Oil drilling	Machine components
Oil refineries	Air cleaners
Well logging	Belts
Power industry	Cams
Electrical equipment industry	Engine cylinders
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Electricity supply industry	Exhaust systems
Nuclear facility regulation	Impellers



Intake systems	X-ray lithography
Manifolds	Manufactured products
Mechanical splines	Ceramic products
Pistons	Chemical products
Rotors	Consumer products
Shafts	Electrical products
Valves	•
Motors	Food products Fuels
AC motors	
	Glass products
Brushless motors	Mechanical products
Commutation	Metal products
DC motors	Paper products
Electric motors	Paper pulp
Hysteresis motors	Plastic products
Induction motors	Rubber products
Micromotors	Sports equipment
Permanent magnet motors	Textile products
Servomotors	Tools
Traction motors	Windows
Universal motors	Manufacturing systems
Printing machinery	Agile manufacturing
Pumps	Automobile manufacture
Fuel pumps	Batch production systems
Heat pumps	Blanking
Insulin pumps	Cellular manufacturing
Micropumps	Flow production systems
Textile machinery	Food manufacturing
Spinning machines	Forging
Manufacturing	Glass manufacturing
Assembly	Integrated manufacturing systems
Fitting	Intelligent manufacturing systems
Microassembly	Job production systems
Preforms	Joining processes
Soldering	Layered manufacturing
Assembly systems	Lean production
Flexible electronics	Manufacturing processes
Robotic assembly	Mass production
Embossing	Melt processing
Fabrication	Pulp manufacturing
Bonding processes	Sheet metal processing
Microfabrication	Thermoforming
Optical device fabrication	Three-dimensional printing
Soldering	Mass customization
Welding	Smart manufacturing
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Lithography	Tolerance analysis
Colloidal lithography	Packaging
Extreme ultraviolet lithography	Bagging
Interferometric lithography	Bottling
Nanolithography	Canning
Soft lithography	Encapsulation
Stereolithography	Food packaging



Multichip modules Plastic packaging Plastic packaging Wrapping Springs Paper technology Steering systems Springs Springs Springs Springs Springs Springs Springs Steering systems Structural shapes Ball milling Suspensions Compression molding Embossing Vents Food products Dairy production Dairing process integration Dairing process integration Dairing process integration Dairing process integration Dairing Dairing production control Dairing processes Dairy production explored production technology Doptimized production technology Doptimized production technology Doptimized production engineering Production engineering Production engineering Production engineering Production engineering Droduction engineering Droduction planning Production engineering Droduction engineering Droduct	Labalina	Distans
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OrificesInhibitors		
	Orifices	Inhibitors



Ink	Advanced driver assistance
Joining materials	systems
Lubricants	Security
Retardants	Access control
Production systems	Authorization
Assembly systems	Blacklisting
Exhaust systems	Multi-factor authentication
Intelligent manufacturing systems	Password
Lean production	Alarm systems
Manufacturing systems	Smoke detectors
Steering systems	Capability-based security
Productivity	Computer security
Shafts	Application security
Camshafts	Authentication
Springs	Cloud computing security
Suspensions	Computer crime
Shock absorbers	Computer hacking
Transfer molding	Countermeasures (computer)
Safety	Cross-site scripting
Aerospace safety	Cyber espionage
Air safety	Cyber warfare
Domestic safety	Cyberattack
Emergency services	Data integrity
Explosion protection	Denial-of-service attack
Hazards	Firewalls (computing)
Biohazards	Honey pot (computing)
Chemical hazards	Identity management systems
Explosions	Internet security
Fires	Mobile security
Flammability	Password
Floods	Penetration testing
Hazardous areas	Permission
Hazardous materials	Phishing
Toxicology	Cryptography
Health and safety	Ciphers
Occupational health	Cryptocurrency
Occupational safety	Encryption
Marine safety	Public key
Product safety	Quantum cryptography
Protection	Random number generation
Explosion protection	Side-channel attacks
Lightning protection	Data security
Radiation protection	Cryptography
Radiation safety	Message authentication
Radiation protection	Digital signatures
Safety devices	Information security
Eye protection	Cyber espionage
Protective clothing	Intrusion detection
Safety management	Phishing
Vehicle safety	Snake robots
	Social engineering (security)
	(3county)



SQL injection	Encoding
Network security	Audio coding
Power system security	Channel coding
Reconnaissance	Block codes
Security management	Combined source-channel coding
Terrorism	Turbo codes
Bioterrorism	Code refractoring
Cyber terrorism	Entropy coding
National security	Huffman coding
Watermarking	Precoding
Wine industry	Source coding
Wineries	Speech coding
	Transcoding
Information theory	Error compensation
•	Genetic communication
Audio coding	Hamming distance
Biological information theory	Hamming weight
Channel coding	Information entropy
Block codes	Mutual information
Linear codes	Network coding
Combined source-channel coding	Rate distortion theory
Turbo codes	Channel rate control
Codes	Rate-distortion
Binary codes	Source coding
Reflective binary codes	Speech coding
Convolutional codes	
Cyclic redundancy check codes	Instrumentation and measurement
Error correction codes	
Reed-Solomon codes	Computerized instrumentation
Parity check codes	Electric variables
Iterative decoding	Admittance
Product codes	Capacitance
Bar codes	Parasitic capacitance
Space-time codes	Quantum capacitance
Communication channels	Capacitance-voltage characteristics
Channel allocation	Conductivity
Spectral efficiency	Photoconductivity
Channel capacity	Semiconductivity
Channel estimation	Transconductance
Channel models	Current
Channel spacing	Bioimpedance
Channel state information	Current slump
Gaussian channels	Dark current
AWGN channels	Fault currents
Multipath channels	Leakage currents
Multiuser channels	Persistent currents
Partial response channels	Short-circuit currents
Throughput	Threshold current
Time-varying channels	Current-voltage characteristics
Decoding	Electric potential
Maximum likelihood decoding	Gain



Impodence	
ImpedanceAnthropometryArea measurement	
1	
BalunsAtmospheric measurements	
InductanceAtomic measurements	
Biomedical measurement	
Biomarkers	
Q-factorBiomedical monitoring	
ResistanceElectroencephalography	
Electric resistanceElectromyography	
PiezoresistanceElectrooculography	
Surface resistanceElectrophysiology	
Photoplethysmography	
ViscosityReproducibility of results	
VoltageSensitivity and specificity	
Breakdown voltageCalorimetry	
Dynamic voltage scalingCoordinate measuring machine	S
Threshold voltageDensity measurement	
Voltage fluctuationsHydrometers	
WiringDistance measurement	
High energy physics instrumentationEuclidean distance	
computingDistortion measurement	
Linear particle acceleratorTotal harmonic distortion	
InstrumentsDoppler measurement	
CompassDosimetry	
Medical instrumentsDynamic range	
MetersElectric variables measurement	
DynamometersAdmittance measurement	
FlowmetersAmmeters	
GoniometersAttenuation measurement	
PotentiometersCapacitance measurement	
RadiometersConductivity measurement	
TachometersCurrent measurement	
VibrometersDielectric measurement	
VoltmetersElectrical resistance measure	mont
	mem
Energy measurement	
MicroscopyImpedance measurement	
Atomic force microscopyInductance measurement	
Partial discharge measureme	nt
Scanning microwave microscopyPhasor measurement units	
Scanning probe microscopyPower measurement	
Q measurement	
Pressure gaugesTransmission line measurem	ents
Voltage measurement	
TelescopesElectromagnetic measurements	
TheodolitesElectromagnetic modeling	
TunersLinearity	
MeasurementMicrowave measurement	
AccelerometersMillimeter wave measuremer	ts
Acoustic measurementsParameter extraction	
Antenna measurementsPolarimetry	



Dadiometry	Valacity maccurement
Radiometry	Velocity measurement
Submillimeter wave measurements	Vibration measurement
Extraterrestrial measurements	Volume measurement
Fluid flow measurement	
Frequency measurement	Micrometers
Frequency estimation	Moisture measurement
Frequency-domain analysis	Humidity measurement
Gain measurement	Noise measurement
Gas chromatography	Multiple signal classification
Geologic measurements	Noise figure
Geophysical measurements	Noise shaping
Geodesy	Nuclear measurements
Sea measurements	Particle tracking
Seismic measurements	Optical variables measurement
Interferometry	Ellipsometry
Fabry-Perot	Photometry
Interferometers	Reflection coefficient
Optical interferometry	Refractive index
Phase shifting interferometry	Particle beam measurements
Radar interferometry	Particle measurements
Radio interferometry	Performance evaluation
Sagnac interferometers	pH measurement
Length measurement	Phase measurement
Lifetime estimation	Plasma measurements
Loss measurement	Plethysmography
Packet loss	Pollution measurement
Magnetic variables measurement	Pressure measurement
Magnetic anomaly detection	Altimetry
Magnetic field measurement	Tire pressure
Magnetometers	Pulse measurements
Permeability measurement	Reflectometry
Measurement by laser beam	Reproducibility of results
Laser velocimetry	Scintillation counters
Measurement errors	Solid scintillation detectors
	Sea state
Measurement techniques	
Calibration	Semiconductor device measurement
Dynamic equilibrium	Sensitivity
Measurement uncertainty	Sensitivity analysis
Measurement units	Shape measurement
Nanometers	Size measurement
Mechanical variables measurement	Functional point analysis
Angular velocity	Software measurement
Displacement measurement	Software metrics
Force measurement	Soil measurements
Motion measurement	Salinity (geophysical)
Position measurement	Spectral efficiency
Rotation measurement	Spectroscopy
Strain measurement	Electrochemical impedance
Stress measurement	spectroscopy
Thickness measurement	Electron paramagnetic resonance
Torque measurement	-
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Fourier transform infrared	Insulation testing
spectroscopy	Integrated circuit testing
Kirchhoff's Law	Integrated circuit testing
Mass spectroscopy	Logic testing
MERIS	· ·
Neutron spin echo	Life testing Materials testing
Photoacoustic effects	•
	Accelerated aging
Resonance light scattering	Acoustic testing
Thermal variables measurement	Adhesive strength
Temperature measurement	Bonding forces
Time measurement	Delamination
Clocks	Elastic recovery
Time dissemination	Nondestructive testing
Timing	Optical fiber testing
UHF measurements	Remaining life assessment
Ultrasonic variables measurement	Ring generators
Viscosity	Semiconductor device testing
Wavelength measurement	Software testing
Wide area measurements	Fuzzing
Monitoring	System testing
Computerized monitoring	Model checking
Environmental monitoring	Test equipment
Patient monitoring	Automatic test equipment
Radiation monitoring	Test facilities
Radiation dosage	Anechoic chambers
Remote monitoring	Laboratories
Surveillance	Large Hadron Collider
Infrared surveillance	Open area test sites
Video surveillance	TEM cells
Testing	Wind tunnels
Aerospace testing	
Wind tunnels	Intelligent transportation systems
Automatic testing	
Automatic test pattern generation	Automated highways
Ring generators	Autonomous automobiles
Benchmark testing	Geographic information systems
Built-in self-test	Geospatial analysis
Circuit testing	Gunshot detection systems
Integrated circuit measurements	Intelligent vehicles
Electronic equipment testing	Autonomous vehicles
Immunity testing	Unmanned autonomous vehicles
Error analysis	Unmanned vehicles
Bit error rate	Unmanned aerial vehicles
Finite wordlength effects	Unmanned underwater vehicles
Error-free operations	Navigation
Failure analysis	Aircraft navigation
Equipment failure	Course correction
Semiconductor device breakdown	Dead reckoning
Frequency response	Indoor navigation
Impulse testing	Inertial navigation
Insulator testing	Marine navigation
Insulator tosting	iviaiiiio riaviyaliori



Padia pavigation	Logar atability
Radio navigation	Laser stability
Satellite navigation systems	Laser transitions
Global navigation satellite system	Power lasers
Global Positioning System	Pump lasers
Satellite constellations	Quantum well lasers
Sonar navigation	Quantum cascade lasers
Transportation	Ring lasers
Air transportation	Fiber lasers
Aircraft	Semiconductor lasers
Airports	Laser tuning
Land transportation	Quantum dot lasers
Rail transportation	Quantum well lasers
Road transportation	Semiconductor laser arrays
Public transportation	Semiconductor optical amplifiers
Smart transportation	Surface emitting lasers
Vehicles	Solid lasers
Intelligent vehicles	Microchip lasers
Land vehicles	Quantum well lasers
Military vehicles	Semiconductor lasers
Space vehicles	Surface emitting lasers
·	Surface emitting lasers
Lasers and electrooptics	Vertical cavity surface emitting
·	lasers
Electrooptic devices	X-ray lasers
Electrochromic devices	Optics
Electrooptic deflectors	Adaptive optics
Electrooptic modulators	Birefringence
Electrooptic effects	Brightness
Electrochromism	Brightness temperature
Kerr effect	Color
Optical bistability	Pigmentation
Stark effect	Electron optics
Lasers	Extinction coefficients
Atom lasers	Extinction ratio
Chemical lasers	Fiber optics
Chemical oxygen iodine lasers	Fiber nonlinear optics
Diode lasers	Optical fibers
Free electron lasers	Fluorescence
Gas lasers	Four-wave mixing
Laser applications	Geometrical optics
Dark states	Ray tracing
Distributed feedback devices	Integrated optics
Laser ablation	Light sources
Laser ablation	Electroluminescent devices
Laser beam cutting	
	Fast light
Laser theory	Luminescent devices
Magnetooptic recording	Phosphors
Laser excitation	Slow light
Optical pumping	Stray light
Laser modes	Superluminescent diodes
Laser mode locking	Ultraviolet sources



Luminacana	Optical palarization
Luminescence	Optical polarization
Bioluminescence	Polarization shift keying
Electroluminescence	Stokes parameters
Fluorescence	Optical pulses
Phosphorescence	Optical retarders
Photoluminescence	Optical saturation
Thermoluminescence	Optical solitons
Microoptics	Optical tuning
Micromirrors	Particle beam optics
Nonlinear optics	Atom optics
Fiber nonlinear optics	Electron optics
Nonlinear optical devices	Stimulated emission
Optical mixing	Photoluminescence
Optical saturation	Physical optics
Photorefractive effect	Optical refraction
Raman scattering	Optical vortices
Supercontinuum generation	Ray tracing
Optical amplifiers	Stray light
Doped fiber amplifiers	Ultrafast optics
Erbium-doped fiber amplifiers	Whispering gallery modes
Semiconductor optical amplifiers	Optoelectronic devices
Optical crosstalk	Charge-coupled image sensors
Optical design	Integrated optoelectronics
Optical design techniques	Light emitting diodes
Optical devices	Inorganic light emitting diodes
Bragg gratings	LED lamps
Collimators	Organic light emitting diodes
Displays	Superluminescent diodes
Holographic optical components	Photoconducting devices
Lenses	Electrophotography
Light deflectors	Photodetectors
	Photodiodes
LightingLuminescent devices	Phototransistors
Mirrors	Superconducting photodetectors
Optical arrays	Superluminescent diodes
Optical attenuators	Photonics
Optical collimators	Biophotonics
Optical device fabrication	Microwave photonics
Optical filters	Nanophotonics
Optical resonators	Photochromism
Optical sensors	Photothermal effects
Thermooptical devices	Silicon photonics
Optical distortion	Spontaneous emission
Optical engineering	Radiative recombination
Optical fiber applications	
Optical fiber devices	Magnetics
Optical harmonic generation	
Optical losses	Biomagnetics
Optical microscopy	Magnetoencephalography
Optical mixing	Demagnetization
Multiwave mixing	Gyromagnetism



Magnetic anisotropy	Manualia anakasia	Familia
Magnetic domain walls Magnetic domains Magnetic domains Magnetic domains Magnetic domains Magnetic domains Magnetic domains Magnetic moments Magnetic devices Magnetic memory Magnetic devices Magnetic modulators Magnetopolic devices Magnetopolic devices Magnetoresistive devices Magnetoresistive devices Magnetic properties Magnetic fields Magnetic fields Magnetic separation Magnetic separation Magnetic separation Magnetic fields Magnetic magnetic materials Magnetic separation Magnetic fields Magnetic fi	Magnetic analysis	Ferrites
Magnetic domains		
Magnetic momentsPerpendicular magnetic anisotropyMagnetic devicesAccelerator magnetsFerrite devicesGarnet filmsGarnet filmsGarnet filmsMagnetic coresFerrite devicesMagnetic filmsMagnetic coresMagnetic gearsMagnetic gearsMagnetic memoryMagnetic semiconductorsFloppy disksMagnetic memoryMagnetic semiconductorsFloppy disksMagnetic materialsMagnetic materialsMagnetic modulatorsMagnetic materialsMagnetic modulatorsMagnetic multilayersMagnetic particlesMagnetic semsorsTransformer coresMagnetic semsorsTransformer coresMagnetic semsorsTransformer coresMagnetic fieldsMagnetic semsorsTransformer coresMagnetic semsorsTransformer coresMagnetic fieldsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic fieldsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic semsorsMagnetic fieldsMagnetic fieldsMagnetic semsorsMagnetic fieldsMagnetic fieldsMagnetic fieldsMagnetic flux densityMagnetic flux densityMagnetic forceMagnetic levitationMagnetic levitationMagnetic forceMagnetic forceMagnetic forceMagnetic forceMagnetic forceMagnetic fo		
Magnetic devices		
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Transformer coresFerrite films		
Magnetic headsMagnetic memoryMagnetic semiconductorsFloppy disksMagnetic superlatticesMagnetic modulatorsMagnetic modulatorsMagnetic modulatorsMagnetopotic devicesMagnetoresistive devicesMagnetostrictive devicesMagnetostrictive devicesMagnetostrictive devicesMagnetic propertiesSolenoidsMagnetic sensorsTransformer coresMagnetic fieldsMagnetic susceptibilityMagnetic fieldsMagnetic switchingGeomagnetismMagnetic separationMagnetic separationMagnetic separationMagnetostaticsMagnetostaticsMagnetic fluxMagnetic fluxHall effectFlux pinningMagnetic flux densityMagnetic forceMagnetic force microscopyMagnetic forceMagnetic force	Transformer cores	Ferrite films
Magnetic memoryMagnetic semiconductorsFloppy disksMagnetic superlatticesMagnetic modulatorsSoft magnetic materialsMagnetooptic devicesMagnetic particlesMagnetoresistive devicesMagnetic propertiesMagnetostrictive devicesMagnetic propertiesMagnetic sensors	Magnetic gears	
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	Magnetic memory	Magnetic semiconductors
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	Magnetic materials	Giant magnetoresistance
Amorphous magnetic materialsOrdinary magnetoresistance		
Antiferromagnetic materialsTunneling magnetoresistance	<u> </u>	<u> </u>
Diamagnetic materialsSpintronics		•
Ferrimagnetic filmsMagnetomechanical effects		
Ferrite filmsMagnetic field induced strain		•
Ferrimagnetic materialsMagnetostriction	Ferrimagnetic materials	
Ferrimagnetic filmsMagnetostriction	Ferrimagnetic films	Magnetostriction
Ferrite filmsMagnetooptic effects		



Faraday effect	Hydrogen
Gyrotropism	Deuterium
Magnets	lodine
Electromagnets	lodine compounds
Superconducting magnets	Iridium
Micromagnetics	Isotopes
Permanent magnets	Krypton
Magnonics	Lutetium
Microwave magnetics	Mercury (metals)
Nonlinear magnetics	Molybdenum
Remanence	Neon
	Neptunium
Materials, elements, and compounds	Nitrogen
	Silicon nitride
Chemical elements	Osmium
Actinium	Oxygen
Aluminum	Phosphorus
Aluminum alloys	Plutonium
Aluminum compounds	Polonium
Americium	Potassium
Antimony	Praseodymium
Arsenic	Promethium
Arsenic compounds	Protactinium
Astatine	Radium
Berkelium	Radon
Beryllium	Rhenium
Boron	Rhodium
Boron alloys	Roentgenium
Bromine	Rubidium
Bromine compounds	Ruthenium
Californium	Scandium
Camornidii	Selenium
Fullerenes	Sodium
Cerium	Sulfur
Cesium	Tantalum
Chlorine	Technetium
Chlorine compounds	Tellurium
Curium	Terbium
Darmstadtium	Thallium
Dysprosium	Thorium
Europium	Thulium
Dysprosium compounds	Titanium
Fluorine	Titanium alloys
Fluorine compounds	Titanium compounds
Francium	Titanium nitride
Gadolinium	Uranium
Gadolinium oxide	Vanadium
Hafnium	Ytterbium
Hafnium compounds	Yttrium
Helium	Yttrium compounds
Holmium	Zirconium



CompoundsBismuth compoundsGallium compoundsAluminum gallium nitrideGallium arsenideGallium arsenideIndium gallium nitrideIndium gallium nitrideIndium gallium nitrideIndium gallium arsenideIndium
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StackingDielectric films
Storage automationEpitaxial layers
WarehousingFerrimagnetic films
Water storageFerrite films
ReservoirsGarnet films
MaterialsMagnetic films
Acoustic materialsOptical films
AdditivesPiezoelectric films
AggregatesPlastic films
Amorphous materialsPolymer films
Diamond-like carbonSemiconductor films
Thick films
Auxetic materialsThin films
Biological materialsFluids
Biomedical materialsFerrofluid
BioceramicsFluid dynamics
BiomembranesGases
Building materialsHydraulic fluids
Liquids
Viscosity
FloorsHazardous materials
Inorganic materials
Lacquers
WindowsLaminates



Magnetic materials	Epoxy resins
Amorphous magnetic materials	Fiber reinforced plastics
Antiferromagnetic materials	Plastic films
Diamagnetic materials	Plastic optical fiber
Ferrimagnetic films	Polymer foams
Ferrimagnetic materials	Polymer gels
Ferrite films	Polymers
Ferrites	Azobenzene
Ferrofluid	Liquid crystal polymers
Garnet films	Optical polymers
Garnets	Polycaprolactone
Magnetic films	Polyethylene
Magnetic liquids	Polyimides
Magnetic semiconductors	Production materials
Magnetic superlattices	Abrasives
Paramagnetic materials	Aerospace materials
Soft magnetic materials	Automotive materials
Material properties	Inhibitors
Creep	Ink
Elasticity	Joining materials
Resilience	Lubricants
Media	Retardants
Nonhomogeneous media	Radioactive materials
Random media	Nuclear fuels
Mesoporous materials	Radioactive decay
Metal foam	Radioactive waste
Metallic materials	Raw materials
Metamaterials	Resins
Electromagnetic metamaterials	Epoxy resins
Optical cloaking	Resists
Optical metamaterials	Semiconductor materials
Nanostructured materials	Amorphous semiconductors
Nanocomposites	Elemental semiconductors
Nanoporous materials	Gallium
Oils	Gallium arsenide
Lubricating oils	Germanium
Vegetable oils	III-V semiconductor materials
Optical materials	II-VI semiconductor materials
Optical cloaking	Indium gallium arsenide
Optical polymers	Indium phosphide
Optical retarders	Magnetic semiconductors
Optical retarders	Organic semiconductors
Photorefractive materials	Semiconductor superlattices
Organic inorganic hybrid materials	Silicon
	SiliconSilicon germanium
Organic materials Paints	Substrates
Paper pulp	Wide band gap semiconductors
Petrochemicals	Sheet materials
Phase change materials	Smart materials
Photoconducting materials	Biomimetic materials
Plastics	Solids



Voundle medulue	Firing
Young's modulus	Firing
Superconducting materials	lon implantation
Granular superconductors	Laser sintering
High-temperature superconductors	Sputtering
Multifilamentary superconductors	Materials reliability
Niobium-tin	Materials testing
Type II superconductors	Accelerated aging
Surfactants	Acoustic testing
Terahertz materials	Adhesive strength
Terahertz metamaterials	Bonding forces
Textiles	Delamination
Cotton	Elastic recovery
Fabrics	Nondestructive testing
Textile fibers	Metallurgy
Wool	Microstructure
Thermoelectric materials	Periodic structures
Waste materials	Gratings
Effluents	Photonic crystals
Electronic waste	Pigmentation
Industrial waste	Pigments
Radioactive waste	Separation processes
Slurries	Fractionation
Wastewater	Particle separators
Wire	Surface engineering
Materials science and technology	Surfaces
Absorption	Corrosion
Aging	Corrugated surfaces
Accelerated aging	Rough surfaces
Chemical analysis	Surface impedance
Activation analysis	Surface morphology
Chemical processes	Surface resistance
Chemicals	Surface roughness
Electronic noses	Surface soil
pH measurement	Surface structures
Contamination	Surface tension
Surface contamination	Surface texture
Degradation	Surface topography
Filtration	Surface treatment
Microfiltration	Metals
Hysteresis	Alloying
Impurities	Intermetallic
Semiconductor impurities	Shape memory alloys
Materials handling	Aluminum
Cleaning	Aluminum alloys
Decontamination	Aluminum compounds
Freight handling	Barium
Materials handling equipment	Barium compounds
Pallets	Bismuth
Remote handling	Boron
Materials preparation	Boron alloys
Doping	Cadmium



Codmium compounds	Comerium allovo
Cadmium compounds	Samarium alloys
Calcium	Silver
Calcium compounds	Steel
Chromium	Martensite
Chromium alloys	Strontium
Cobalt	Strontium compounds
Cobalt alloys	Tin
Copper	Tin alloys
Copper alloys	Tin compounds
Copper compounds	Titanium
Digital alloys	Titanium alloys
Erbium	Titanium compounds
Gallium	Titanium nitride
Gallium alloys	Tungsten
Germanium	Yttrium
Germanium alloys	Yttrium compounds
Gold	Zinc
Gold alloys	Zinc compounds
Hafnium	
Hafnium compounds	Mathematics
Indium	
Iron	Accuracy
Cast iron	Algebra
Iron alloys	Abstract algebra
Lanthanum	Galois fields
Lanthanum compounds	Modules (abstract algebra)
Lead	Boolean algebra
Lead isotopes	Boolean functions
Lithium	Linear algebra
Lithium compounds	Linear programming
Magnesium	Matrices
Magnesium compounds	Vectors
Manganese	Set theory
Manganese alloys	Fuzzy set theory
Mercury (metals)	Fuzzy sets
Metallization	Rough sets
Integrated circuit metallization	Algorithm design and anlaysis
Neodymium	Algorithmic efficiency
Neodymium alloys	Algorithms
Neodymium compounds	Adaptive algorithms
Nickel	Adaptation models
Nickel alloys	Algorithm design and analysis
Nickel compounds	Approximation algorithms
Niobium	Backpropagation algorithms
Niobium alloys	Basis algorithms
Niobium compounds	Change detection algorithms
Palladium	Classification algorithms
Platinum	Clustering algorithms
Platinum alloys	Compression algorithms
Rare earth metals	Density estimation robust algorithm
Samarium	Detection algorithms
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Distributed agorithms Dynamic programming Filtering algorithms Genetic algorithms Heuristic algorithms Inference algorithms Machine learning algorithms Matchine learning algorithms Maximum likelihood detection MLFMA Multicast algorithms Parallel algorithms Parallel algorithms Parallel algorithms Parallel algorithms Parallel algorithms Prediction algorithms Projection algorithms Pursuit algorithms Pursuit algorithms Projection algorithms Pursuit algorithms Projection algorithms Naturation Prose estimation Prose estimation Projective geometry Projective	Distribute de la suitte de	Canfarma al manarina
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	Computational efficiency	



Iterative methods	Finite volume methods
Expectation-maximization algorithms	Gradient methods
Iterative algorithms	Independent component analysis
Belief propagation	Iterative methods
Iterative closest point algorithm	Expectation-maximization
Sum product algorithm	algorithms
Iterative learning control	Iterative algorithms
Kernel	Iterative learning control
Null space	Least squares approximation
System kernels	Least mean squares methods
Laplace equations	Method of moments
Lattices	Mode matching methods
Lattice Boltzmann methods	Multigrid methods
Limit-cycles	Newton method
Linear matrix inequalities	Numerical simulation
Linear systems	Numerical stability
Linearization techniques	Relaxation methods
Mathematical model	Sparse matrices
Mathematical analysis	Splines (mathematics)
Formal concept analysis	Surface fitting
Fractional calculus	Response surface methodology
Modal analysis	Symmetric matrices
Mathematical programming	Transmission line matrix methods
Method of moments	Optimization
Minimization	Cost function
Minimization methods	Optimal scheduling
Mode matching methods	Optimal scheduling
Network theory (graphs)	Circuit optimization
Nonlinear equations	Design optimization
Bifurcation	Fireworks algorithm
Nonlinear systems	Gradient methods
Chaos	H infinity control
	Mathematical programming
	Optimized production technology
Complexity theory	
Spatiotemporal phenomena	Pareto optimization
Nonlinear dynamical systems	Quadratic programming
Numerical analysis	Simulated annealing
Adaptive mesh refinement	Trajectory optimization
Approximation methods	Piecewise linear techniques
Approximation error	Piecewise linear approximation
Chebyshev approximation	Predator prey systems
Curve fitting	Probability
Extrapolation	Ant colony optimization
Function approximation	Bayes methods
Interpolation	Recursive estimation
Linear approximation	Error probability
Mean square error methods	Forecasting
Perturbation methods	Demand forecasting
Convergence of numerical methods	Economic forecasting
Finite difference methods	Forecast uncertainty
Finite element analysis	Technology forecasting



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Memoryless systems	Root mean square
Pairwise error probability	Sampling methods
Possibility theory	Compressed sensing
Probability distribution	Nonuniform sampling
Exponential distribution	Statistical analysis
Log-normal distribution	Analysis of variance
Maxwell-Boltzmann distribution	Mode matching methods
Nakagami distribution	Monte Carlo methods
Random variables	Parameter estimation
Statistical distributions	Pareto analysis
Distribution functions	Principal component analysis
Gaussian distribution	Regression analysis
Weibull distribution	Static analysis
Uncertainty	Time series analysis
Forecast uncertainty	Stochastic processes
Quaternions	Gaussian processes
Random processes	Gaussian mixture model
Brownian motion	Markov processes
Root mean square	Markov random fields
Sequences	Taylor series
Binary sequences	Topology
Random sequences	Transforms
Set theory	Discrete transforms
	Discrete transforms
Fuzzy set theory	
Fuzzy sets	Empirical mode decomposition
Rough sets	Fourier transforms
Simulated annealing	Discrete Fourier transforms
Smoothing methods	Fast Fourier transforms
Spirals	Fourier transform infrared
Statistics	spectroscopy
Adaptive estimation	Karhunen-Loeve transforms
Autoregressive processes	Poincare invariance
Boltzmann distribution	Wavelet transforms
Lattice Boltzmann methods	Biorthogonal modulation
Correlation	Continuous wavelet transforms
Autocorrelation	Discrete wavelet transforms
Correlation coefficient	Wavelet coefficients
Covariance matrices	Wavelet packets
Dimensionality reduction	Transmission line matrix methods
Gaussian mixture model	Uncertain systems
Higher order statistics	Utility theory
Histograms	
Linear discriminant analysis	Microwave theory and techniques
Maximum likelihood estimation	
Minimax techniques	Microwave technology
Mixture models	Baluns
Nonparametric statistics	Beam steering
Nearest neighbor methods	Circulators
Parametric statistics	Masers
Prediction theory	Gyrotrons
Ranking (statistics)	Microwave bands



Chand	Nananasitianing
	Nanopositioning
K-band	Nanoscale devices
L-band	Nanocontacts
Microwave circuits	Nanotube devices
Microwave communication	Proteotronics
Rectennas	Nanosensors
Microwave devices	Nanostructured materials
Masers	Nanocomposites
Microwave amplifiers	Nanoporous materials
Microwave filters	Nanostructures
Microwave transistors	Nanoparticles
Microwave generation	Magnetic nanoparticles
High power microwave generation	Nanocrystals
Microwave photonics	Nanoribbons
Microwave sensors	Nanotubes
Millimeter wave technology	Carbon nanotubes
Millimeter wave circuits	Semiconductor nanotubes
Millimeter wave integrated circuits	Nanowires
Millimeter wave devices	Semiconductor nanostructures
Millimeter wave transistors	Self-assembly
Millimeter wave integrated circuits	Electrostatic self-assembly
MIMICs	Self-replicating machines
Millimeter wave radar	. •
Submillimeter wave technology	Nuclear and plasma sciences
Submillimeter wave circuits	·
Submillimeter wave integrated	Biomedical applications of radiation
circuits	Colliding beam devices
Submillimeter wave communication	Colliding beam accelerators
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Submillimeter wave devices	Muon colliders
Submillimeter wave devicesSubmillimeter wave filters	Electron emission
Submillimeter wave filters	Electron emission
Submillimeter wave filtersSubmillimeter wave integrated circuits	Electron emission Ballistic transport Electronic ballasts
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Noutrons	Ctorono vinas
Neutrons	Storage rings
Particle beams	Synchrocyclotrons
Atomic beams	Synchrotrons
Electron beams	Synchrotron radiation
lon beams	Undulators
Particle collisions	Particle beam handling
Phonons	Particle beam injection
Positrons	Plasmas
Protons	Atmospheric-pressure plasmas
Fusion power generation	Plasma applications
Fusion reactors	Plasma devices
Fusion reactor design	Plasma immersion ion implantation
Tokamaks	Plasma welding
Tokamak devices	Tokamaks
Gamma-rays	Plasma confinement
Gamma-ray bursts	Inertial confinement
Gamma-ray detection	Magnetic confinement
Gamma-ray effects	Plasma diagnostics
Gas discharge devices	Plasma properties
Glow discharge devices	Dusty plasmas
High energy physics instrumentation	Plasma chemistry
computing	Plasma density
Linear particle accelerator	Plasma sheaths
lon beam applications	Plasma stability
lon implantation	Plasma temperature
Plasma immersion ion implantation	Plasmons
lon emission	Plasma simulation
Nuclear electronics	Plasma sources
Nuclear imaging	Plasma transport processes
Energy resolution	Plasma-assisted combustion
Nuclear medicine	Radiation effects
Nuclear physics	Biological effects of radiation
Alpha particles	Gamma-ray effects
Beta rays	lon radiation effects
lgnition	Neutron radiation effects
lon sources	Scintillators
Isotopes	Single event latchup
Nuclear phase transformations	Space radiation
Nuclear thermodynamics	Terahertz radiation
Relativistic effects	Total ionizing dose
Optical flow	Radiation hardening (electronics)
Particle accelerators	Radiation monitoring
Accelerator magnets	Radiation dosage
Colliding beam accelerators	Radiation safety
Cyclotrons	Radiation protection
Electron accelerators	Reactor instrumentation
lon accelerators	Scintillation counters
Linear accelerators	Solid scintillation detectors
Photon collider	Thermionic emission
Plasma accelerators	
Proton accelerators	



Oceanic engineering and marine	Resonant inverters
technology	Phase control
	Power conditioning
Marine navigation	Power smoothing
Marine technology	Power semiconductor devices
Marine equipment	Power transistors
Marine transportation	Power semiconductor switches
Marine vehicles	Bipolar transistors
Underwater cables	Insulated gate bipolar transistors
Underwater communication	Kirk field collapse effect
Underwater equipment	Thyristors
Rebreathing equipment	Photothyristors
Underwater structures	Snubbers
Underwater technology	Three-phase electric power
Underwater communication	, ,
Underwater equipment	Power engineering and energy
Underwater structures	0 0
Ocean temperature	Electric variables control
Oceanographic techniques	Current control
Water pollution	Electric current control
Marine pollution	Electrical ballasts
'	Gain control
Power electronics	Power control
	Power system control
Adiabatic	Bidirectional power flow
Converters	Load flow control
AC-AC converters	SCADA systems
DC-AC power converters	Reactive power control
Digital-to-frequency converters	Voltage control
Frequency conversion	Automatic voltage control
Mixers	Energy
Optical frequency conversion	Energy barrier
Modular multilevel converters	Energy capture
Power conversion	Energy consumption
AC-AC converters	Energy conversion
AC-DC power converters	Atomic batteries
DC-AC power converters	Batteries
DC-DC power converters	Fuel cells
Matrix converters	Motors
Power conversion harmonics	Photovoltaic cells
Voltage-source converters	Potential well
Pulse width modulation converters	Solar heating
Resonant converters	Thermoelectricity
Static power converters	Waste heat
Voltage-source converters	Energy dissipation
Wavelength converters	Energy exchange
Current limiters	Inductive charging
Fault current limiters	Energy harvesting
Gate drivers	Nanogenerators
Inverters	Energy management
Pulse inverters	Demand-side management
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Charge canaan atian	Calar nanala
Energy conservation	Solar panels
Energy efficiency	Trigeneration
Load management	Turbomachinery
Transactive energy	Turbines
Energy resources	Turbogenerators
Fuels	Wind energy generation
Geothermal energy	Wind energy integration
Nuclear fuels	Wind power generation
Solar energy	Power systems
Wave power	Hybrid power systems
Wind energy	Industrial power systems
Wind farms	Power distribution
Energy states	Power distribution faults
Effective mass	Power distribution lines
Orbital calculations	Power grids
Surface states	Microgrids
Energy storage	Smart grids
Batteries	Power supplies
Flywheels	Battery chargers
Fuel cells	Charging stations
Hydrogen storage	Current supplies
Supercapacitors	Emergency power supplies
Superconducting magnetic energy	Inductive charging
storage	Islanding
Power engineering	Power demand
Ferroresonance	Power quality
High-voltage techniques	Power system restoration
Power engineering computing	Switched mode power supplies
Power system simulation	Traction power supplies
Power generation	Umbilical cable
Automatic generation control	Power system analysis computing
Cogeneration	Power system dynamics
Distributed power generation	Power system economics
Geothermal power generation	Power system faults
Hydroelectric power generation	Power system harmonics
Hydroelectric power generation	Power harmonic filters
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generation Microhydro power	Load flow
Picohydro power	Power system measurements
	Meter reading
Magnetohydrodynamic power	•
generationNuclear power generation	Power system planning Power demand
Atomic batteries	
	Power system protection
Fission reactors	Electrical safety
Fusion power generation	Substation protection
Power generation control	Surge protection
Power generation dispatch	Power system reliability
Power generation planning	Power system stability
Solar power generation	Power transmission
Maximum power point trackers	Common Information Model
Photovoltaic systems	(electricity)



Flevible AC transmission eveters	Occupational health
Flexible AC transmission systems	Occupational health
HVDC transmission	Occupational safety
Inductive power transmission	Marine safety
Static VAr compensators	Product safety
Transmission lines	Protection
Wireless power transmission	Explosion protection
PSCAD	Lightning protection
Pulse power systems	Radiation protection
Pulsed power supplies	Radiation safety
Reactive power	Radiation protection
Substations	Safety devices
Substation automation	Eye protection
Substation protection	Protective clothing
Transformers	Safety management
Baluns	Vehicle safety
Current transformers	Advanced driver assistance
Flyback transformers	systems
Instrument transformers	Vehicle crash testing
Phase transformers	G
Power transformers	Professional communication
Pulse transformers	
Uninterruptible power systems	Collaboration
Wind energy integration	Collaborative tools
<i>c, c</i>	Call conference
Product safety engineering	Collaborative software
a comment of the grant of the g	Videoconferences
Consumer protection	Discussion forums
Power system protection	Teamwork
Electrical safety	Virtual groups
Fault protection	Communication aids
Grounding	Communication effectiveness
Substation protection	Communication symbols
Surge protection	Semiotics
Arresters	Pragmatics
Safety	Semantics
Aerospace safety	Syntactics
Air safety	Context
Domestic safety	Databases
Emergency services	Databases
Explosion protection	Audio databases
Hazards	Deductive databases
Biohazards	
Chemical hazards	Image databases Indexes
	Multimedia databases
Explosions	NoSQL databases
Fires	
Flammability	Object oriented databases
Floods	Query processing
Hazardous areas	Deductive databases
Hazardous materials	Distributed databases
Toxicology	Image databases
Health and safety	Image retrieval



Multimedia databases	Facebook
Object oriented databases	MySpace
Relational databases	YouTube
Spatial databases	Vocabulary
Transaction databases	Web sites
Itemsets	Facebook
Visual databases	
Global communication	MySpaceUniform resource locators
Cross-cultural communication	
	Web design YouTube
Geographic information systems	
Geospatial analysis	Information science
Gunshot detection systems	Information services
Grammar	Ask IEEE
Information analysis	Dictionaries
Decision analysis	Document delivery
Indexing	Ask IEEE
Information resources	Encyclopedias
Information retrieval	Libraries
Blogs	Software libraries
Content-based retrieval	Teletext
Dimensionality reduction	Videotex
Hypertext systems	Wikipedia
Information filtering	Information systems
Information filters	Data systems
Recommender systems	Data acquisition
Information rates	Data centers
Music information retrieval	Data compression
Online services	Data conversion
Online banking	Data engineering
Search engines	Data handling
Search methods	Data processing
Keyword search	Data storage systems
Metasearch	Data warehouses
Search problems	Database systems
Semantic search	Audio databases
Web search	Deductive databases
Social network services	Image databases
Computer mediated communication	Indexes
Facebook	Multimedia databases
Flickr	NoSQL databases
LinkedIn	Object oriented databases
MySpace	Query processing
Second Life	Distributed information systems
Twitter	Distributed management
YouTube	Publish-subscribe
Tagging	Identity management systems
Tag clouds	Informatics
Taxonomy	Biomedical informatics
Terminology	Cognitive informatics
Dictionaries	Neuroinformatics
Video sharing	Information architecture
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Information management	Distinguisa
Information management	Dictionaries
Common Information Model	Documentation
(computing)	Grammar
Common Information Model	Readability metrics
(electricity)	Resumes
Competitive intelligence	Reviews
Digital preservation	Thesauri
Document handling	
Information security	Reliability
Information sharing	
Knowledge transfer	Availability
Information processing	Fault diagnosis
Electronic healthcare	Dissolved gas analysis
Informatics	Fault location
Information exchange	Fault tolerance
Sonification	Fault tolerant control
Management information systems	Redundancy
Portals	Fluctuations
Medical information systems	Integrated circuit reliability
Electronic medical records	Maintenance
Information technology	Maldistribution
Bring your own device	Materials reliability
Information and communication	Reliability engineering
technology	Reliability theory
Ambient assisted living	Robustness
Information representation	Semiconductor device reliability
Printing	Software reliability
Digital printing	Stability
Ink jet printing	Circuit stability
Teleprinting	Robust stability
Three-dimensional printing	Stability analysis
Semantic technology	Stability criteria
Service computing	Thermal stability
Telematics	Telecommunication network reliability
Universal Serial Bus	Diversity schemes
Manuals	biversity sorietiles
Meetings	Resonance
Conferences	Resonance
Oral communication	Ferroresonance
Public speaking	Magnetic resonance
Speech	Nuclear magnetic resonance
Plagiarism	Paramagnetic resonance
Priagransin	Resonance light scattering
Professional societies	Stochastic resonance
	Stochastic resonance
Public speaking Rhetoric	Debatics and automation
	Robotics and automation
Writing	A uniona administra
Abstracts	Animatronics
Bibliographies	Automation
Biographies	Automated highways
Autobiographies	Automatic generation control



Automatic testing	Robot motion
Automatic testing	Robot kinematics
Ring generators	Motion analysis
Building automation	Robot learning
Manufacturing automation	Robot learning
Computer aided manufacturing	Robot programmingRobot sensing systems
•	<u> </u>
Computer integrated manufacturing	Robot vision systemsSimultaneous localization and
Computer numerical control	
Flexible manufacturing systemsOffice automation	mapping Tactile sensors
	Service robots
Storage automation	Soft robotics
Vehicular automation	Telerobotics
Autonomous systems	Teleoperators
Autonomous robots	Visual odometry
Autonomous vehicles	Onlaws
Unmanned autonomous vehicles	Science – general
Multi-robot systems	A - A
Robots	Astronomy
Androids	Astrophysics
Aquatic robots	Orbits
Automata	Stellar dynamics
Turing machines	Extrasolar planets
Autonomous robots	Extrasolar planetary atmospheres
Cognitive robotics	Extrasolar planetary mass
Computer vision	Observatories
Active appearance model	Radio astronomy
Blob detection	Solar system
Corner detection	Kuiper belt
Face detection	Planets
Interest point detection	Satellites
Smart cameras	Sun
Visual odometry	Biology
Educational robots	Biochemistry
Evolutionary robotics	Amino acids
Humanoid robots	Biochemical analysis
Intelligent robots	Peptides
Manipulators	Proteins
End effectors	Receptor (biochemistry)
Manipulator dynamics	Biodiversity
Micromanipulators	Biogeography
Medical robotics	Bioelectric phenomena
Rehabilitation robotics	Electric shock
Mobile robots	Biological cells
Autonomous automobiles	Cell signaling
Climbing robots	Cells (biology)
Legged locomotion	Chromosome mapping
Orbital robotics	Fibroblasts
Parallel robots	RNA
Rescue robots	Stem cells
Robot control	Biological information theory



Biological processesAmino acidsBiological interactionsBiochemical analysisChronobiologyPeptidesCircadian rhythmProteinsCoagulationReceptor (biochemistry)Molecular biologyChemical analysis
ChronobiologyPeptidesCircadian rhythmProteinsCoagulationReceptor (biochemistry)Molecular biologyChemical analysis
Circadian rhythmProteinsReceptor (biochemistry)Molecular biologyChemical analysis
Molecular biologyChemical analysis
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SymbiosisActivation analysis
Biological system modelingChemical processes
Biological systemsChemicals
AnatomyElectronic noses
OrganismsChemical compounds
Biology computingAnti-freeze
BiophotonicsBromine compounds
BiophysicsChalcogenides
Aerospace biophysicsEthanol
BiomagneticsMethanol
Cellular biophysicsGeochemistry
Molecular biophysicsInorganic chemicals
CryobiologyInterstellar chemistry
Evolution (biology)Organic chemicals
MemeticsHydrocarbons
PhylogenyPhotochemistry
GeneticsPhotobleaching
DNAElectricity
Gene therapyPhotoelectricity
Genetic communicationPhotovoltaic effects
Genetic expressionPiezoelectricity
Genetic programmingPiezoelectric effect
GenomicsPiezoelectric polarization
HomeostasisPyroelectricity
MicroinjectionThermoelectricity
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NanobiotechnologyThermoelectric materials
PhysiologyTriboelectricity
Action potentialsGeoscience
External stimuliAntarctica
South Pole
Predator prey systemsArctic
Synthetic biologyNorth Pole
SystematicsAtmosphere
Systems biologyAir quality
VegetationAtmospheric modeling
CropsAtmospheric waves
Biosphere
ZoologyContinents
AnimalsAfrica
ChemistryAsia
AstrochemistryAustralia
BiochemistryEurope



North America	Tornadoes
South America	Tsunami
Cyclones	Volcanoes
Hurricanes	Planetary volcanoes
Tropical cyclones	Volcanic activity
Earth	Volcanic activity
Earthquakes	Wetlands
Earthquake engineering	History
Forestry	Life sciences
Geochemistry	Metrology
Geoengineering	Optical metrology
Geography	Neuroscience
Rural areas	Clinical neuroscience
Urban areas	Cognitive neuroscience
Geology	Computational neuroscience
Minerals	Neuroinformatics
Rocks	Systems neuroscience
Geophysics	Transcranial direct current stimulation
EMTDC	Transcranial magnetic stimulation
Extraterrestrial phenomena	Physics
Geodynamics	Ácoustics
Geophysics computing	Acoustic applications
Meteorology	Acoustic devices
Moisture	Acoustic emission
Seismology	Acoustic noise
Surface waves	Acoustic propagation
Well logging	Acoustic pulses
lce	Acoustic waves
lce shelf	Acoustooptic effects
lce surface	Biomedical acoustics
lce thickness	Cepstral analysis
Sea ice	Music
Lakes	Nonlinear acoustics
Land surface	Psychoacoustics
	Reverberation
Levee	
Meteorological factors	Spectral shape
Oceanography	Underwater acoustics
Oceans	Astrophysics
Ocean salinity	Orbits
Ocean temperature	Stellar dynamics
Sea coast	Beams
Sea floor	Acoustic beams
Sea level	Laser beams
Sea surface	Molecular beams
Tides	Optical beams
Rivers	Particle beams
Sediments	Biophysics
Soil	Aerospace biophysics
Soil moisture	Biomagnetics
Soil properties	Cellular biophysics
Soil texture	Molecular biophysics



Dark energy	Density functional theory
Dark energy	Density functional theory
Entropy Fluid flow	Lagrangian functionsProton effects
Fluid dynamics	Quantum capacitance
Hydraulic diameter	Quantum cryptography
Hydrology	Quantum entanglement
Pipelines	Relativistic quantum mechanics
Valves	Schrodinger equation
Geophysics	Stationary state
EMTDC	Teleportation
Extraterrestrial phenomena	Tunneling
Geodynamics	Solid-state physics
Geophysics computing	String theory
Meteorology	Thermal factors
Moisture	Temperature
Seismology	Temperature dependence
Surface waves	Thermal conductivity
Well logging	Thermal expansion
High energy physics	Thermal management
Kinetic theory	Thermal stresses
Kinetic energy	Thermoelasticity
Levitation	Thermoelectricity
Electrostatic levitation	Thermolysis
Magnetic levitation	Thermooptic effects
Lorentz covariance	Thermoresistivity
Mechanical factors	Waves
Acceleration	Atmospheric waves
Aerodynamics	Berry phase
Biomechanics	Doppler effect
Damping	Electrodynamics
Dynamics	Magnetostatic waves
Fatigue	Matter waves
Force	Plasma waves
Friction	Propagation
Hydrodynamics	Reflectivity
Kinematics	Seismic waves
Lubrication	Shock waves
Magnetohydrodynamics	Solitons
Photoelasticity	Surface acoustic waves
Pressure effects	Wave functions
Shock (mechanics)	Sociology
Strain	Digital divide
Stress	Social groups
Surface cracks	Millennials
Torque	Senior citizens
Vibrations	Social intelligence
Volume relaxation	Thermodynamics
Workability	Enthalpy
Network theory (graphs)	Isobaric
Physics education	Isothermal processes
Quantum mechanics	·



Sensors	Sensor systems
	Activity recognition
Acoustic sensors	Gunshot detection systems
Chemical and biological sensors	Thermal sensors
Biosensors	Temperature sensors
Gas detectors	Thick film sensors
Amperometric sensors	Thin film sensors
Electromechanical sensors	Vision sensors
Microsensors	Wearable sensors
Force sensors	
Infrared sensors	Signal processing
Intelligent sensors	
Intracranial pressure sensors	Acoustic signal processing
lonizing radiation sensors	Active noise reduction
Position sensitive particle detectors	Echo cancellers
Radiation detectors	Speech processing
Bolometers	Human voice
Gamma-ray detectors	Speech enhancement
Infrared detectors	Speech synthesis
Photodetectors	Voice activity detection
Semiconductor radiation detectors	Adaptive signal processing
Silicon radiation detectors	Adaptive filters
X-ray detectors	Adaptive signal detection
Magnetic sensors	Amplifiers
Spin valves	Broadband amplifiers
Mechanical sensors	Differential amplifiers
Capacitive sensors	Distributed amplifiers
Multimodal sensors	Low-noise amplifiers
Nanosensors	Operational amplifiers
Optical sensors	Feedback amplifiers
Optical detectors	Power amplifiers
Bar codes	High power amplifiers
Optical fiber sensors	Predistortion
Optical liber sensors	Preamplifiers
Pressure sensors	Pulse amplifiers
	<u>.</u>
Sensor phenomena and characterization	Radiofrequency amplifiersResonators
Sensor systems and applicationsDetectors	
	Cavity resonators
Envelope detectors	Array signal processing
Semiconductor detectors	Attenuators
Electric sensing devices	Optical attenuators
Leak detection	Chirp
Radiofrequency identification	Convolution
RFID tags	Convolvers
Robot sensing systems	Decorrelation
Robot vision systems	Digital signal processing
Simultaneous localization and	Delta modulation
mapping	Delta-sigma modulation
Tactile sensors	Sigma-delta modulation
Sensor arrays	Digital signal processing chips
Sensor fusion	Dispersion



Chromatic dispersion	Modulation
Optical fiber dispersion	Amplitude modulation
Distortion	Amplitude shift keying
Acoustic distortion	Quadrature amplitude modulation
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Four-wave mixing	Chirp modulation
Jitter	Demodulation
Timing jitter	Digital modulation
Nonlinear distortion	Constellation diagram
Harmonic distortion	Partial response signaling
Intermodulation distortion	Frequency modulation
Phase distortion	Frequency shift keying
Error correction	Magnetic modulators
Forward error correction	Modulation coding
Fading channels	Interleaved codes
Frequency-selective fading channels	Optical modulation
Rayleigh channels	Electrooptic modulators
Weibull fading channels	Intensity modulation
Filters	Phase modulation
Active filters	Continuous phase modulation
Band-pass filters	Differential phase shift keying
Anisotropic	Phase shift keying
Bragg gratings	Pulse modulation
Fiber gratings	Pulse width modulation
Channel bank filters	Pulse width modulation inverters
Digital filters	Space vector pulse width
Finite impulse response filters	modulation
Equalizers	Multidimensional signal processing
Adaptive equalizers	Video signal processing
Blind equalizers	Motion artifacts
Decision feedback equalizers	Video coding
Filtering theory	Video compression
Image filtering	Noise
Gabor filters	1/f noise
Harmonic filters	Additive noise
IR filters	Additive white noise
Kalman filters	AwgN
Low pass filters	Colored noise
Matched filters	Gaussian noise
Microstrip filters	AWGN
Nonlinear filters	
Notch filters	Laser noise Laser feedback
Particle filters	Low-frequency noise
Power filters	Noise cancellation
Spurline	Phase noise
Resonator filters	Signal to noise ratio
Spatial filters	PSNR
Superconducting filters	Superconducting device noise
Transversal filters	White noise
Frequency locked loops	AWGN
Geophysical signal processing	Optical signal processing
Limiting	Laser noise



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Laser feedback	Optical signal detection
Optical wavelength conversion	Phase detection
Phase locked loops	Phase frequency detector
Pulse compression methods	Radar detection
Optical pulse compression	Signal generators
Pulse shaping methods	Noise generators
Optical pulse shaping	Pulse generation
Quantization (signal)	Optical pulse generation
Vector quantization	Signal integrity
Radar signal processing	Signal reconstruction
Received signal strength indicator	Signal denoising
Recording	Signal resolution
Audio recording	Diversity reception
Digital recording	Signal restoration
Disk recording	Signal sampling
Magnetic recording	Signal synthesis
Digital magnetic recording	Source separation
Heat-assisted magnetic recording	Blind source separation
Magnetic noise	Spectrogram
Magnetooptic recording	Tracking loops
Microwave-assisted magnetic	Tracking loops
recording	Social implications of technology
Perpendicular magnetic recording	Social implications of technology
Optical recording	Cultural differences
CD recording	Environmental factors
Video recording	Biosphere
High definition video	Ecology
Videos	Ecology
Webcams	Wetlands
RF signals	Environmental economics
Signal analysis	Carbon tax
Discrete-event systems	_
	Environmental monitoring
Harmonic analysisParameter estimation	Global warming Green products
Amplitude estimation	Green broductsGreen buildings
Direction-of-arrival estimation	
Frequency estimation	Pollution
Motion estimation	Air pollution
Phase estimation	Industrial pollution
Thase estimation	•
	Land pollution
Signal mapping	Oil pollution
Spectral analysis	Radioactive pollution
Infrared spectra	Thermal pollution
Judd-Ofelt theory	Urban pollution
Spectroradiometers	Water pollution
Signal design	Ethical aspects
Signal detection	Ethics
Acoustic signal detection	Cyberethics
Sonar detectionMotion detection	Globalization
	International relations
Multiuser detection	Peace technology



Philosophical considerations	Thin film transistors
Social factors	Heterojunction bipolar transistors
Demography	Double heterojunction bipolar
Technology social factors	transistors
Privacy	Millimeter wave transistors
Sustainable development	Phototransistors
Technology	Static induction transistors
Appropriate technology	O a a dec add did
Neurotechnology	Superconductivity
Technological innovation	
Technology social factors	Bean model
Privacy	Critical current density
Technology transfer	(superconductivity)
Small business technology transfer	Critical current density
Telepresence	Flux pinning
Telexistence	Superconducting devices
	Josephson junctions
Solid state circuits	SQUIDs
John State Should	Superconducting coils
Circuit subsystems	Superconducting cons
Circuit subsystems	
Circuit theory	Superconducting microwave devices
FET circuits	Superconducting photodetectors
FET integrated circuits	Superconducting filaments and wires
Field effect MMIC	Superconducting films
MESFET integrated circuits	Superconducting thin films
JFET circuits	Superconducting integrated circuits
JFET integrated circuits	Superconducting magnetic energy
MESFET circuits	storage
MESFET integrated circuits	Superconducting materials
MODFET circuits	Granular superconductors
MODFET integrated circuits	High-temperature superconductors
MOSFET circuits	Yttrium barium copper oxide
CMOSFET circuits	Multifilamentary superconductors
MOS integrated circuits	Niobium-tin
Power MOSFET	Type II superconductors
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Gate leakage	Superconducting transition temperature
Solid state circuit design	Overtown and secular and the env
Transistors	Systems engineering and theory
Field effect transistors	
CNTFETs	Adaptive systems
Double-gate FETs	Adaptive control
HEMTs	Cognitive radar
JFETs	Line enhancers
MESFETs	Multi-agent systems
MISFETs	Collaborative intelligence
MODFETs	Variable structure systems
MOSFET	Capability engineering
MOSHFETs	Complex systems
OFETs	Configuration management
Schottky gate field effect transistors	Hierarchical systems
TFETs	Multilevel systems



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Integrated design	Solution design
Interface management	Stochastic systems
Modeling	System analysis and design
Analytical models	Asymptotic stability
Common Information Model	Control system analysis
(computing)	State-space methods
Atmospheric modeling	Diakoptics
Brain modeling	Distributed processing
Computational modeling	Edge computing
Agent-based modeling	Message passing
Computational cultural modeling	Distributed vision networks
Context modeling	Fault detection
Data models	Fault tolerant systems
Metadata	Interconnected systems
Deformable models	Botnet
Digital elevation models	Large-scale systems
Emulation	Lyapunov methods
Graphical models	Open systems
Green's function methods	Open Access
Hidden Markov models	Open Educational Resources
Input variables	Physical layer
Integrated circuit modeling	Petri nets
Cutoff frequency	Physical design
Inverse problems	Robust control
Deconvolution	Scalability
Load modeling	Scattering parameters
Metamodeling	Sequential analysis
Numerical models	Sequential diagnosis
Object oriented modeling	Software prototyping
Power system modeling	Static analysis
Load modeling	System dynamics
Process modeling	System performance
Semiconductor device modeling	Cooperative caching
Semiconductor process modeling	System-level design
Signal representation	Systems modeling
Simulation	Systems Modeling Language
Computer simulation	Task analysis
Digital simulation	Time factors
Hardware-in-the loop simulation	Continuous time systems
Medical simulation	Discrete-time systems
Systems simulation	Time invariant systems
Solid modeling	Time-varying systems
System identification	System implementation
Systems modeling	System improvement
Multidimensional systems	System integration
Physical design	System of systems
Reduced order systems	Cyber-physical systems
Requirements engineering	System realization
Technical requirements	System realization
Requirements management	System testing
Service-oriented systems engineering	Model checking
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System verification	TOPSIS
System testing	Econophysics
Model checking	Emergent phenomena
Systems architecture	Intelligent control
Systems engineering education	Feedforward systems
Systems operation	Neurocontrollers
Systems simulation	Linear feedback control systems
Systems support	Frequency locked loops
Systems thinking	Phase locked loops
Task analysis	State feedback
Technical management	Tracking loops
Maintenance management	Ergonomics
Technical planning	Job design
	Human factors
Systems, man, and cybernetics	Anthropomorphism
- , -, -, -, -, -, -, -, -, -, -, -, -, -,	Identification of persons
Behavioral sciences	Biometrics (access control)
Animal behavior	Face recognition
Cognition	Fingerprint recognition
Activity recognition	Gait recognition
Cognitive neuroscience	Iris recognition
Consumer behavior	Palmprint recognition
Psychiatry	Face recognition
Mental disorders	Fingerprint recognition
Psychology	Handwriting recognition
Industrial psychology	Forgery
Mood	Speaker recognition
Neuropsychology	Speaker recognition
Psychometric testing	Automatic speech recognition
Social intelligence	Speech analysis
	Man-machine systems
Biological control systemsBiomarkers	•
	Extended reality
Molecular biomarkers	Interactive systemsExternal stimuli
Computational linguistics	
Sentiment analysis	Natural languages
Cybernetics	Natural language processing
Adaptive systems	Morphology
Adaptive control	Sentiment analysis
Cognitive radar	Pervasive computing
Line enhancers	Ubiquitous computing
Multi-agent systems	Context-aware services
Variable structure systems	Wearable computers
Cognitive informatics	Posthuman
Cognitive science	<u>T</u> eleworking
Problem-solving	Transhuman
Control theory	User interfaces
Control nonlinearities	Audio user interfaces
Iterative learning control	Brain-computer interfaces
Observability	Data visualization
Decision theory	Isosurfaces
Decision trees	Emotion recognition



Exoskeletons	Advanced driver assistance
Graphical user interfaces	systems
Avatars	Land mobile radio equipment
Human computer interaction	Mobile antennas
Affective computing	Navigation
Extended reality	Aircraft navigation
Gaze tracking	Course correction
Head-mounted displays	Dead reckoning
Head-up displays	Indoor navigation
Telepresence	Inertial navigation
Telexistence	Marine navigation
Human-robot interaction	Radio navigation
Human-vehicle systems	Satellite navigation systems
Smart cards	Global navigation satellite system
Siliait caids	Global Havigation satellite system
Illtraconics formalisatrics and	Satellite constellations
Ultrasonics, ferroelectrics, and	
frequency control	Sonar navigation
Carra alastria matariala	Propulsion
Ferroelectric materials	Aerospace propulsion
Ferroelectric films	Aircraft propulsion
Relaxor ferroelectrics	Propellers
Frequency control	Electromagnetic launching
Automatic frequency control	Coilguns
Tunable circuits and devices	Railguns
RLC circuits	Electrothermal launching
Tuned circuits	Rockets
Tuning	Vehicles
Laser tuning	Intelligent vehicles
Optical tuning	Autonomous vehicles
Tuners	Unmanned vehicles
Piezoelectricity	Land vehicles
Piezoelectric effect	Bicycles
Piezoelectric polarization	Electric vehicles
Pyroelectricity	Road vehicles
Ultrasonic imaging	Military vehicles
Ultrasonography	Space vehicles
Sonogram	Space shuttles
Ultrasonic transducers	Wireless sensor networks
	Body sensor networks
Vehicular and wireless technologies	Event detection
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Automotive engineering	
Automotive applications	
Automotive electronics	
Power steering	
Vehicle crash testing	
Vehicle detection	

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