## 2021 IEEE Taxonomy

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Created by
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Engineers
(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 2021 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	High frequency radar
Aerospace simulation	Laser radar
Aerospace testing	Meteorological radar
Wind tunnels	Millimeter wave radar
Artificial satellites	Multistatic radar
Earth Observing System	MIMO radar
Low earth orbit satellites	Passive radar
Military satellites	Quantum radar
Space stations	Radar applications
Space technology	Radar countermeasures
Payloads	Radar detection
Space debris	Radar imaging
Space exploration	Radar measurements
Aerospace materials	Radar polarimetry
Aerospace components	Radar remote sensing
Aircraft manufacture	Radar tracking
Aircraft navigation	Radar clutter
Aircraft propulsion	Radar cross-sections
Propellers	Radar equipment
Command and control systems	Radar theory
Electronic warfare	Spaceborne radar
Electronic countermeasures	Spread spectrum radar
Jamming	Synthetic aperture radar
Radar countermeasures	Inverse synthetic aperture radar
Military equipment	Polarimetric synthetic aperture
Military aircraft	radar
Payloads	Ultra wideband radar
Military satellites	Sensor systems
Military vehicles	Activity recognition
Weapons	Gunshot detection systems



Conor	Dodor entennes
Sonar	Radar antennas
Sonar applications	Receiving antennas
Sonar detection	Rectennas
Sonar measurements	Reflector antennas
Sonar equipment	Satellite antennas
Synthetic aperture sonar	Slot antennas
Telemetry	Steerable antennas
Biomedical telemetry	Transmission line antennas
	Transmitting antennas
Antennas and propagation	UHF antennas
	Yagi-Uda antennas
Antennas	Electromagnetic propagation
Antenna accessories	Electromagnetic diffraction
Radomes	Optical diffraction
Antenna arrays	Physical theory of diffraction
Adaptive arrays	X-ray diffraction
Butler matrices	Electromagnetic propagation in
Linear antenna arrays	absorbing media
Log periodic antennas	Electromagnetic reflection
Microstrip antenna arrays	Optical reflection
Microwave antenna arrays	Microwave propagation
Phased arrays	Millimeter wave propagation
Planar arrays	Optical propagation
Antenna radiation patterns	Optical surface waves
Near-field radiation pattern	Optical waveguides
Antenna theory	Propagation constant
Frequency selective surfaces	Propagation losses
Apertures	Radio propagation
Aperture antennas	Radiowave propagation
Aperture coupled antennas	Submillimeter wave propagation
Broadband antennas	UHF propagation
Ultra wideband antennas	Radio astronomy
Vivaldi antennas	tadio dollonomy
Dielectric resonator antennas	Broadcast technology
Dipole antennas	Broadoust toomiology
Directional antennas	Broadcasting
Directive antennas	Digital audio broadcasting
Feeds	Digital audio players
Antenna feeds	Digital Radio Mondiale
Fractal antennas	Digital multimedia broadcasting
Helical antennas	Digital riditined a broadcasting
Horn antennas	Motion pictures
Leaky wave antennas	Radio broadcasting
Loaded antennas	Frequency modulation
Loaded antermas Log-periodic dipole antennas	Radio networks
Microstrip antennas	Satellite broadcasting
Microwave antennas	
	Web TV
Mobile antennas	
Multifrequency antennasOmnidirectional antennas	
Patch antennas	



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



Drogrammable logic arraya	Cognontial aircuita
Programmable logic arrays	Sequential circuits
Superconducting logic circuits	Silicon-on-insulator
Magnetic circuits	Silicon on sapphire
Microprocessors	Submillimeter wave circuits
Automatic logic units	Submillimeter wave integrated
Biomimetics	circuits
Coprocessors	Summing circuits
Microcontrollers	Switched circuits
Microprocessor chips	Switched capacitor circuits
Vector processors	Switching circuits
Microwave circuits	Choppers (circuits)
Millimeter wave circuits	Logic circuits
Millimeter wave integrated circuits	Switching converters
Millimeter wave integrated circuits	Zero current switching
MIMICs	Zero voltage switching
Monolithic integrated circuits	Thick film circuits
MIMICs	Thin film circuits
MMICs	Thyristor circuits
MOSFET circuits	Time varying circuits
CMOSFET circuits	Trigger circuits
MOS integrated circuits	UHF circuits
Power MOSFET	UHF integrated circuits
Multiplying circuits	UHF integrated circuits
Neural circuits	Ultra large scale integration
Nonlinear circuits	Very large scale integration
Nonlinear circuitsNonlinear network analysis	
Passive 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
Quantum circuit	Comb 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



Matabad filtara	l low vodice
Matched filters	Ham radios
Microstrip filters	Land mobile radio equipment
Nonlinear filters	Radio transceivers
Notch filters	Transponders
Particle filters	Receivers
Power filters	Optical receivers
Resonator filters	RAKE receivers
Spatial filters	Receiving antennas
Superconducting filters	Repeaters
Transversal filters	Speech codecs
Information filtering	Telephone equipment
Information filters	Cellular phones
Recommender systems	Landline
Integrated circuit technology	Telephone sets
Beyond CMOS	Vocoders
CMOS technology	Transceivers
CMOS process	Radio transceivers
Silicon on sapphire	Transmitters
Moore's Law	Auxiliary transmitters
Logic devices	Diversity methods
Logic gates	Neurotransmitters
Programmable logic devices	Optical transmitters
Oscillators	Radio transmitters
Digital-controlled oscillators	Transmitting antennas
Injection-locked oscillators	Transponders
Local oscillators	TV equipment
Microwave oscillators	Large screen displays
Phase noise	TV receivers
	Video codecs
Ring oscillators	Video codecs Video equipment
Voltage-controlled oscillatorsSingle electron devices	
	Optical projectorsVideo codecs
Single electron memory	
Hetero-nanocrystal memory	Videos
Single electron transistors	Vocoders
Tunable circuits and devices	Communication switching
RLC circuits	Code division multiplexing
Tuned circuits	Electronic switching systems
	Frame relay
Communications technology	Handover
	Multiprotocol label switching
Communication equipment	Packet switching
Auditory displays	Burst switching
Codecs	Frame relay
Speech codecs	Multiprotocol label switching
Video codecs	Packet loss
Modems	Communication systems
On board unit	ARPANET
Optical communication equipment	Biomedical communication
Optical transmitters	Biomedical telemetry
Radio communication equipment	Telemedicine
Base stations	Broadband communication



B-ISDN	Wireless access points
Broadband amplifiers	Cross layer design
Communication networks	Data buses
Central office	Backplanes
Cyberspace	Data communication
Industrial communication	Asynchronous communication
Martime communications	Asynchronous transfer mode
Radio access technologies	Data buses
Relay networks	Data transfer
(telecommunication)	Telecommunication buffers
Communication system control	Telemetry
Telecommunication control	Teleprinting
Communication system security	Visible light communication
Denial-of-service attack	Device-to-device communication
Impersonation attacks	Device-to-device communication
Quantum key distribution	Baseband
Radio communication	DICOM
countermeasures	Digital audio broadcasting
Communication system signaling	Digital images
Received signal strength indicator	Digital multimedia broadcasting
Communication system software	Digital video broadcasting
Streaming media	DSL
Communication system traffic	ISDN
Communication system traffic control	Passband
Computer networks	Portable media players
Ad hoc networks	SONET
Computer network management	Spread spectrum communication
Content distribution networks	Facsimile
Cyberspace	FDDI
Diffserv networks	Indoor communication
Domain Name System	Indoor environment
Ethernet	Internet
Heterogeneous networks	Bot (Internet)
Internet	Botnet
Intserv networks	Cloud computing
IP networks	Crowdsourcing
Metropolitan area networks	Instant messaging
Multiprocessor interconnection	Internet of Things
networks	Internet security
Network function virtualization	Internet telephony
Network security	Internet topology
Network servers	Linked data
Next generation networking	Middleboxes
Overlay networks	Semantic Web
Peer-to-peer computing	Social computing
Software defined networking	Web 2.0
Storage area networks	Web services
Token networks	IP networks
Unicast	TCPIP
Virtual private networks	ISDN
Wide area networks	B-ISDN



Local area networks	Hypermedia
Wireless LAN	Nanocommunication
Low latency communication	(telecommunication)
Ultra reliable low latency	Narrowband
communication	NOMA
Machine-to-machine communications	Optical fiber communication
Massive machine type	FDDI
communications	
Magnetic communication	Free-space optical communicationOptical buffering
•	Optical bulleting
Metropolitan area networksMicrowave communication	Optical liber networks
Rectennas	Optical inter subscriber loops
	Optical interconnections
Military communicationReconnaissance	• • •
MIMO communication	Optical wavelength conversion
Massive MIMO	Scheduling algorithmsSONET
Rician channels	Visible light communicationPersonal communication networks
MISO communication	
Mobile communication	Protocols
3G mobile communication	Access protocols
4G mobile communication	Asynchronous transfer mode
5G mobile communication	Consensus protocol
6G mobile communication	Cryptographic protocols
Ambient networks	Master-slave
Cellular technology	Multicast protocols
Dual band	Multiprotocol label switching
Land mobile radio	Proof of Work
Location awareness	Routing protocols
Mobile learning	Smart contracts
Mobile nodes	Transport protocols
Mobile security	Wireless application protocol
Mobile video	Zero knowledge proof
Software radio	Quality of experience
Ultra-dense networks	Quality of service
Molecular communication	Admission control
(telecommunication)	Quantum communication
Multiaccess communication	Quantum circuit
Access charges	Quantum networks
Direct-sequence code-division	Radio communication
multiple access	Baseband
Frequency division multiaccess	Bluetooth
Multicarrier code division multiple	Cellular technology
access	Indoor radio communication
Subscriber loops	Land mobile radio
Time division multiple access	Millimeter wave communication
Time division synchronous code	Near field communication
division multiple access	Packet radio networks
Zero correlation zone	Passband
Multicast communication	Personal area networks
Multicast VPN	Radio broadcasting
Multimedia communication	



Radio communication	Vehicle-to-infrastructure
countermeasures	Videophone systems
Radio frequency	Videotex
Radio links	Visual communication
Radio spectrum management	Wide area networks
Satellite communication	Wide area networks
Satellite communication	Wireless communication
Software radio	
	Cognitive radio
Zigbee	Cooperative communication
Regional area networks	Dedicated short range
WRAN	communication
Routing	GSM
Wavelength routing	Open wireless architecture
Satellite communication	Point-to-multipoint communications
Downlink	Roaming
Satellite broadcasting	Smart devices
Satellite ground stations	Spatial diversity
Uplink	WiMAX
Satellite ground stations	Wireless access points
SIMO communication	Wireless application protocol
SISO communication	Wireless networks
Spatial diversity	WRAN
Submillimeter wave communication	Wireless mesh networks
Subscriber loops	Wireless sensor networks
Switching systems	Body sensor networks
Electronic switching systems	Event detection
Switching frequency	Couplers
Switching loss	Directional couplers
Telecommunication switching	High-speed electronics
Synchronous digital hierarchy	High-speed integrated circuits
Telecommunications	High-speed networks
Ambient intelligence	Ultrafast electronics
Feedback communications	Image communication
IP networks	Facsimile
Radio access networks	Picture archiving and communication
Railway communication	systems
Space communications	Information and communication
Telecommunication computing	technology
Telecommunication retwork	Ambient assisted living
	<del>_</del>
topologyTelecommunication services	Message systems Electronic mail
Teleconfindrication services	
	Unified messaging
Teleconferencing	Unsolicited e-mail
Telegraphy	Electronic messaging
Telephony	Instant messaging
Teleprinting	Unified messaging
Teletext	Postal services
Token networks	Publish subscribe systems
UHF communication	Voice mail
Underwater communication	Modulation
Vehicle-to-everything	Amplitude modulation



Amplitude shift keying	Cable TV
Amplitude shift keying	
Quadrature amplitude modulation	Must-carry
Chirp modulation	Color TV
Demodulation	Digital TV
Digital modulation	HDTV
Constellation diagram	IPTV
Partial response signaling	Mobile TV
Frequency modulation	Smart TV
Frequency shift keying	Three-dimensional television
Magnetic modulators	Web TV
Modulation coding	UHF technology
Interleaved codes	UHF antennas
Optical modulation	UHF circuits
Electrooptic modulators	UHF integrated circuits
Intensity modulation	UHF communication
Phase modulation	UHF devices
Continuous phase modulation	UHF integrated circuits
Differential phase shift keying	Ultra wideband technology
Phase shift keying	Ultra wideband antennas
Pulse modulation	Ultra wideband communication
Pulse width modulation	Ultra wideband radar
Pulse width modulation inverters	VHF devices
Space vector pulse width	VIII devides
modulation	Components, packaging, and
Multiplexing	manufacturing technology
I AGA GIVICIAN MIJITINIAVING	
Code division multiplexing	0 111
Demultiplexing	Component architectures
DemultiplexingFrequency division multiplexing	Electronic components
DemultiplexingFrequency division multiplexingLayered division multiplexing	Electronic componentsCapacitors
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Structural plates	Cognitive systems
Switches	Context awareness
Contactors	Cooperative systems
Microswitches	Decision support systems
Optical switches	Intelligent systems
Transducers	Autonomous systems
Acoustic transducers	Collective intelligence
Biomedical transducers	Intelligent robots
Capacitive transducers	Knowledge based systems
Chemical transducers	Expert systems
Inductive transducers	Mobile agents
Piezoelectric transducers	Knowledge engineering
Resistive transducers	Inference mechanisms
Ultrasonic transducer arrays	Knowledge acquisition
Electronic equipment manufacture	Knowledge discovery
Damascene integration	Knowledge discovery
Micromachining	Learning (artificial intelligence)
<u> </u>	Distance learning
Radiation hardening (electronics)Semiconductor device manufacture	Electronic learning
	•
Diffusion processes	Naive Bayes methods
Flip-chip devices	Nearest neighbor methods
High-k gate dielectrics	Learning systems
Physical unclonable function	Backpropagation
Quasi-doping	Cognitive systems
Semiconductor device doping	Hybrid learning
Semiconductor epitaxial layers	Learning automata
Semiconductor growth	Learning management systems
Silicidation	Semisupervised learning
Wafer bonding	Supervised learning
Electronics packaging	Unsupervised learning
Chip scale packaging	Machine learning
Environmentally friendly manufacturing	Adversarial machine learning
techniques	Boosting
Integrated circuit manufacture	Deep learning
Surface-mount technology	Dimensionality reduction
Integrated circuit packaging	Random forests
Multichip modules	Reinforcement learning
Plastic integrated circuit packaging	Relevance vector machines
Semiconductor device packaging	Robot learning
Thermal management of electronics	Statistical learning
Electronic packaging thermal	Prediction methods
management	Linear predictive coding
Electronics cooling	Predictive coding
	Predictive encoding
Computational and artificial intelligence	Predictive models
	Virtual artifact
Artificial intelligence	Autonomous mental development
Affective computing	Computational intelligence
Al accelerators	Computation theory
Autonomous robots	Computational complexity
Bio-inspired computing	Concurrent computing



Croody algorithms	Computer generated music
Greedy algorithms	Computer generated music
Support vector machines	Computer integrated manufacturing
Evolutionary computation	Control engineering computing
Evolutionary robotics	Green computing
Particle swarm optimization	High energy physics instrumentation
Fuzzy systems	computing
Fuzzy control	Linear particle accelerator
Fuzzy neural networks	Knowledge management
Hybrid intelligent systems	Knowledge transfer
Genetic algorithms	Mathematics computing
Logic	Matlab
Fuzzy logic	Medical information systems
Takagi-Sugeno model	Electronic medical records
Multivalued logic	Military computing
Probabilistic logic	Mobile applications
Sufficient conditions	Physics computing
Machine intelligence	Power engineering computing
Pattern analysis	Power system analysis computing
Neural networks	Publishing
Artificial neural networks	Bibliometrics
Convolutional neural networks	Company reports
Hebbian theory	Desktop publishing
Long short term memory	Electronic publishing
Residual neural networks	Journalism
Self-organizing feature maps	Open Access
Biological neural networks	Scientific publishing
Cellular neural networks	Scientific computing
Feedforward neural networks	Telecommunication computing
Extreme learning machines	Internetworking
Multilayer perceptrons	Soft switching
Graph neural networks	Virtual assistants
Multi-layer neural network	Virtual enterprises
Neural network hardware	Virtual manufacturing
Radial basis function networks	Virtual machining
Recurrent neural networks	Web sites
Hopfield neural networks	Multimedia Web sites
Tophcia ficulal fictworks	MySpace
Computers and information processing	Uniform resource locators
Computers and information processing	Web design
Approximate computing	World Wide Web
Computer applications	Bot (Internet)
Application virtualization	Mashups
Edge computing	Computer architecture
	Accelerator architectures
Big Data applicationsBlockchain	Data structures
Consensus protocol	Arrays
Bot (Internet)	Binary decision diagrams
Computer aided analysis	Null value
Computer aided engineering	Octrees
Computer aided instruction	Persistent identifiers
Learning management systems	Table lookup



Memory architecture Memory management Multiprocessor interconnectionHypercubesParallel architecturesMulticore processingReconfigurable architecturesRestful APIWebRTCWebRTCBrowsersComputer portsField busesField busesFierwireHaptic interfacesForce feedbackForce feedbackForce feedbackTactile InternetHypertext systemsInternet telephonyInternet telephonyInternet telephonyInternet telephonyInternet topologyLinked dataMiddleboxesMiddleboxesMeb Semantic WebSocial computingSemantic WebWeb 2.0Web servicesInternet velorisMeb servicesInternet velorisMeb servicesInternet velorisMeb servicesInternet velorisMet populatina area networksMultiprocessor interconnection networksMultiprocessor interconnection networksNetwork function virtualizationNetwork securityNetwork securityNetwork serversNetwork defined networkingNetwork defined networking
Memory management Multiprocessor interconnection Multiprocessor interconnection Multiprocessor interconnection Multiprocessor interconnection Multicore processing Meconfigurable architectures Meconfigurable intelligent surfaces Meconfigurable intelligent surfaces Mestful API MebRTC MebRTC Momputer ports Meb 2.0  Computer ports Meb 2.0  Computer ports Meb services Field buses Minterfaces Mintervente works Metropolitan area networks Metropolitan area networks Metropolitan area networks Metropolitan area networks Metwork function virtualization Metwork security Metwork reconnaissance Network interfaces Network interfaces Metropolitan area networks Metropolitan area networks Multiprocessor interconnection networks Network security Metwork security Metwork reconnaissance Network servers Metwork servers Network servers Netwo
Multiprocessor interconnectionHypercubesParallel architecturesMulticore processingReconfigurable architecturesReconfigurable intelligent surfacesComputer interfacesApplication programming interfacesRestful APIWebRTCSocial computingBrowsersComputer portsField busesField busesFierwireData glovesForce feedbackForce feedbackTactile InternetHypertext systemsInternet telephonyInternet telephonyInternet telephonyInternet topologyLinked dataMiddleboxesMiddleboxesMeb Semantic WebSocial computingWeb 2.0Web servicesInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInteroversInterface phenomenaNetwork interfacesNetwork interfacesNetwork interfacesNetwork serversInterface statesNetwork serversInterface statesNetwork serversInterface statesNetwork serversInterface statesNetwork serversNetwork
Hypercubes Parallel architectures Multicore processing Reconfigurable architectures Reconfigurable intelligent surfaces Mapplication programming interfaces Restful API Semantic Web WebRTC Social computing Mebraces Field buses Firewire Haptic interfaces Force feedback Force feedback Meyperext systems Input devices Interface sizes Interfaces Metropolitan area networks Input devices Interfaces Network interfaces Network interfaces Networks Semantic Web Semantic Veb Semant
Multicore processing
Reconfigurable architectures Reconfigurable intelligent surfaces Computer interfaces Application programming interfaces Restful API Semantic Web RTC Social computing WebRTC Social computing Web services Field buses Firewire Haptic interfaces Brorce feedback Force feedback Tactile Internet Hypertext systems Internet telephony Linked data Middleboxes Semantic Web Semantic Web Social computing Web 2.0 Web services Interv networks IP networks Metropolitan area networks Multiprocessor interconnection networks Multiprocessor interconnection networks Network function virtualization Network security Network security Network servers Network servers Network servers Next generation networking Musical instrument digital interfaces System buses Computer networks Service function chaining
Reconfigurable intelligent surfacesComputer interfacesApplication programming interfacesRestful API
Computer interfacesApplication programming interfacesMiddleboxesMiddleboxesSemantic WebSemantic WebSocial computing
Application programming interfacesRestful APIWebRTCBrowsersComputer portsField busesFirewireData glovesForce feedbackTactile InternetTactile InternetHypertext systemsInput devicesNetwork interfacesNetwork interfacesNetwork interfacesNetwork interfacesNetwork securityInterface statesNetwork serversInterface statesNetwork serversInterface statesNetwork serversNetwork
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Musical instrument digital interfacesOverlay networksPeer-to-peer computingSoftware defined networkingService function chaining
System busesPeer-to-peer computingSoftware defined networkingService function chaining
Oomputer networksSoftware defined networkingService function chaining
Ad hoc networksService function chaining
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Storage area networks
Token networks
Mobile ad hoc networksUnicast
Vehicular ad hoc networksVirtual private networks
Computer network managementExtranets
Wide area networks
Disruption tolerant networkingWireless access points
Management information baseComputer performance
MiddleboxesComputer errors
Network address translationComputer crashes
Hardware acceleration
Content distribution networksPerformance loss
CyberspaceComputer peripherals
Diffserv networksDisk drives
Domain Name SystemKeyboards
EthernetModems
Printers
Laser printers
Heterogeneous networksComputer science



Computational neuroscience	Trusted computing
Formal languages	Computers
Computer languages	Analog computers
Runtime library	Calculators
Network theory (graphs)	Difference engines
Programming	Digital computers
Augmented reality	Mainframes
Augmented realityAutomatic programming	
Concatenated codes	MicrocomputersPortable computers
	Workstations
Functional programmingGranular computing	Parallel machines
Integer linear programming	Supercomputers
Logic programming	Exascale computing
Microprogramming	Tablet computers
Object oriented methods	Wearable computers
Object oriented programming	Smart glasses
Opportunistic software systems	Concurrency control
development	Processor scheduling
Parallel programming	Scheduling algorithms
Performance analysis	Data systems
Programming profession	Data acquisition
Robot programming	Fastbus
Computer security	User-generated content
Application security	Data centers
Authentication	Data center power
Multi-factor authentication	Data compression
Cloud computing security	Adaptive coding
Computer crime	Audio compression
Counterfeiting	Huffman coding
Cyber terrorism	Source coding
Cyberattack	Test data compression
SQL injection	Transform coding
Computer hacking	Data conversion
Countermeasures (computer)	Analog-digital conversion
Cross-site scripting	Digital-analog conversion
Cyber espionage	Data engineering
Cyber warfare	Data handling
Cyberattack	Data assimilation
Data integrity	Data dissemination
Denial-of-service attack	Data encapsulation
Distributed denial-of-service attack	Data governance
Firewalls (computing)	Data integrity
Honey pot (computing)	Document handling
Identity management systems	Merging
Internet security	Open data
Mobile security	Sorting
Password	Data processing
Penetration testing	Associative processing
Permission	Business data processing
Phishing	Data analysis
Proof of Work	Data collection



Data internation	Distributed information systems
Data integration	Distributed information systems
Data preprocessing	Distributed management
Data transfer	Publish-subscribe
Information exchange	Internet
Spreadsheet programs	Bot (Internet)
Text processing	Botnet
Virtual enterprises	Cloud computing
Data storage systems	Crowdsourcing
Triples (Data structure)	Instant messaging
Data warehouses	Internet of Things
Database machines	Internet security
Database machines Digital systems	Internet telephony
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Digital preservation	Internet topology
Digital storage	Linked data
Solid state drives	Middleboxes
Digital transformation	Semantic Web
Internet	Social computing
Bot (Internet)	Web 2.0
Botnet	Web services
Cloud computing	Metacomputing
Crowdsourcing	Grid computing
Instant messaging	Peer-to-peer computing
Internet of Things	DNA computing
Internet security	File servers
Internet telephony	Hardware
Internet topology	Hardware acceleration
Linked data	Input devices
Middleboxes	Open source hardware
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Semantic Web	Reconfigurable devices
Social computing	Wireless access points
	High performance computing
Web services	Exascale computing
ISDN	Image processing
B-ISDN	Active shape model
Local area networks	Blob detection
Wireless LAN	Corner detection
Metropolitan area networks	Feature detection
Token networks	Feature extraction
Virtual artifact	Fiducial markers
Distributed computing	Geophysical image processing
Client-server systems	Gray-scale
Middleware	Image analysis
Servers	Image classification
Cluster computing	Image diasonication
Collaborative work	Image motion analysis
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Collaborative intelligence	Image sequence analysis
Cooperative communication	Image texture analysis
Crowdsourcing	Object detection
Social computing	Subtraction techniques
Diffserv networks	Image annotation
Distributed databases	Image capture



Image coding	Memory management
	Nonvolatile memory
Image color analysisImage decomposition	
·	Nonvolatile single electron memory
Image denoising	Phase change memory
Image enhancement	Phase change random access
Image filtering	memory
Image fusion	Random access memory
Image recognition	DRAM chips
Image edge detection	Phase change random access
Image reconstruction	memory
Image registration	Resistive RAM
Image representation	SDRAM
Digital representation	SRAM cells
Image resolution	SRAM chips
High-resolution imaging	Read only memory
Spatial resolution	PROM
Superresolution	Read-write memory
Image restoration	Registers
Image sampling	Shift registers
Image segmentation	Scanning probe data storage
Image segmentaton	Semiconductor memory
Thresholding (Imaging)	Integrated memory circuits
Image sequences	Mobile computing
Image stitching	Wireless access points
Image synthesis	Molecular computing
Human image synthesis	Multitasking
Image texture	Parametric study
Machine vision	Open systems
Object recognition	Open Access
Object segmentation	Public domain software
Morphological operations	Open Educational Resources
Optical feedback	Physical layer
Pansharpening	Physical layer security
Saliency detection	Optical computing
Smart pixels	Parallel processing
Spatial coherence	Multiprocessing systems
Structure from motion	Data flow computing
Table lookup	Processor scheduling
Memory	Systolic arrays
Analog memory	Multithreading
Associative memory	Parallel algorithms
Buffer storage	Pipeline processing
Computer buffers	Pattern recognition
•	Active shape model
Cache memory	• • • • • • • • • • • • • • • • • • •
Cache storage	Activity recognition
Content addressable storage	Character recognition
Flash memories	Clustering methods
Flash memory cells	Pattern clustering
Magnetic memory	Data mining
Floppy disks	Anomaly detection
Hard disks	Association rules



Data privacy	Web services
Text analysis	Open source software
Text mining	Optical character recognition software
Web mining	Privacy-invasive software
Face recognition	Spyware
Fingerprint recognition	Public domain software
Gesture recognition	Python
Sign language	R language
Handwriting recognition	Software agents
Forgery	Agent-based modeling
Nearest neighbor methods	Autonomous agents
Pattern matching	Botnet
Image matching	Intelligent agents
Speech recognition	Software as a service
Automatic speech recognition	Software debugging
Speech analysis	Software design
Text recognition	Software maintenance
Pervasive computing	Software packages
Ubiquitous computing	EMTDC
Context-aware services	PSCAD
Wearable computers	SPICE
Smart glasses	Software performance
Petascale computing	Software quality
Platform virtualization	Software reusability
Probabilistic computing	Software safety
Probability computing	Software systems
Quantum computing	Software tools
Quantum algorithm	Authoring systems
Quantum cellular automata	System software
Quantum chemistry	File systems
Quantum circuit	Operating systems
Quantum networks	Program processors
Quantum simulation	Utility programs
Qubit	Software engineering
Real-time systems	Capability maturity model
Telexistence	Computer aided software engineering
WebRTC	Formal verification
Software	Programming environments
Anti-virus software	Reasoning about programs
Application software	Release engineering
Embedded software	Runtime
Freeware	Dynamic compiler
Malware	Runtime environment
	Software architecture
Computer virusesComputer worms	
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Ransomware	Deep architecture
Rootkit	Dew computing
Trojan horses	Microarchitecture
Middleware	Representational state transfer
Mediation	Restful API
Message-oriented middleware	Software libraries



Software product lines	Closed loop systems
System recovery	Control design
Checkpointing	Control engineering
Core dumps	Control system security
Debugging	Physical unclonable function
Time sharing computer systems	Control equipment
Virtual machine monitors	Actuators
Virtual maciline monitors	Dielectric elastomer actuators
Consumer electronics	Electrostatic actuators
Consumer electronics	Electrostatic actuators
Ambient intelligence	
Ambient intelligence	Hydraulic actuators
Audio systems	Intelligent actuators
3D audio	Microactuators
Audio tapes	Piezoelectric actuators
Audio-visual systems	Pneumatic actuators
Auditory displays	Fasteners
Headphones	Microcontrollers
Immersive audio	Regulators
Loudspeakers	Remote control
Microphones	Servosystems
Microphone arrays	Servomotors
Pitch control (audio)	Switches
Portable media players	Contactors
Sonification	Microswitches
Video description	Optical switches
Home automation	Switchgear
Portable media players	Circuit breakers
Refrigerators	Interrupters
Smart homes	Relays
Washing machines	Telecontrol equipment
Home computing	Thermostats
Low-power electronics	Control system synthesis
Microwave ovens	Controllability
Multimedia systems	Cruise control
Multimedia communication	Decentralized control
Hypermedia	Consensus control
Multimedia computing	Distributed parameter systems
Multimedia Web sites	Delay systems
Multimedia databases	Added delay
Waltimedia databases	Delay lines
Control systems	Digital control
Control systems	Programmable control
Automatic control	Flow graphs
Power generation control	Fault tolerant control
Automatic generation control	Feedback
Autopilot	Feedback circuits
Bidirectional control	Output feedback
Block signalling	Negative feedback
Brakes	Neurofeedback
CAMAC	Feedback linearization
Centralized control	Fluid flow control



Fluidica	Disentral
Fluidics	PI control
Microfluidics	Pneumatic systems
Nanofluidics	Positive train control
Gaze tracking	Pressure control
Electrooculography	Proportional control
Homeostasis	Radio control
Linear feedback control systems	Robot control
Frequency locked loops	Robot motion
Phase locked loops	SCADA systems
State feedback	Sensorless control
Tracking loops	Sliding mode control
Magnetic variables control	Supervisory control
Mechanical variables control	SCADA systems
Displacement control	Thermal variables control
Force control	HVAC
Level control	Temperature control
Gyroscopes	Cooling
Motion control	Heating systems
Collision avoidance	Thermal analysis
Collision mitigation	Thermomechanical processes
Kinetic theory	Traffic control
Motion planning	Queueing analysis
Path planning	Road traffic control
Visual servoing	Vehicle routing
Pitch control (position)	g
Position control	Dielectrics and electrical insulation
Nanopositioning	
Shape control	Dielectrics
Size control	Dielectric constant
Strain control	High-k gate dielectrics
Stress control	Dielectric devices
Thickness control	Capacitors
Torque control	Ferroelectric devices
Velocity control	Piezoelectric devices
Angular velocity control	Pyroelectric devices
Vibration control	Dielectric losses
Weight control	Dielectric losses
Medical control systems	Dielectric substrates
Moisture control	Electropydrodynamics
Humidity control	Electrorydrodynamics
Motion compensation	Electrokinetics
Networked control systems	Electrostriction
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Nonlinear control systems	Avalanche breakdown
Open loop systems	Corona
Optical control	Dielectric breakdown
Lighting control	Arc discharges
Optical variables control	Discharges (electric)
Optimal control	Electrostatic discharges
Bang-bang control	Flashover
Infinite horizon	Glow discharges
PD control	Partial discharges



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Surface discharges	Communication engineering education
Vacuum breakdown	Computer science education
Sparks	Control engineering education
Insulation	Electrical engineering education
Cable insulation	Electronics engineering education
Power cable insulation	Engineering students
Ceramics	Physics education
Bioceramics	Power engineering education
Porcelain	Student experiments
Gas insulation	Systems engineering education
Sulfur hexafluoride	Training
Insulators	Certification
Metal-insulator structures	Industrial training
Plastic insulators	Management training
Rubber	On the job training
Topological insulators	Qualifications
Trees - insulation	Vocational training
Isolation technology	· ·
Oil insulation	Electromagnetic compatibility and
Oil filled cables	interference
Plastic insulation	
	Electromagnetic compatibility
Education	Immunity testing
	Reverberation chambers
Adaptive learning	Electromagnetics
Career development	Electromagnetic analysis
Continuing education	Air gaps
Jobs listings	Characteristic mode analysis
Mentoring	Computational electromagnetics
Educational 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 engineering	Electromagnetic coupling
Scholarships	Mutual coupling
Self-study courses	Optical coupling
Seminars	
	Electromagnetic devicesBaluns
STEM	Electromagnetic induction
Tutorials	Eddy currents
Educational technology	Inductive power transmission
Computer aided instruction	Electromagnetic metamaterials
Learning management systems	Terahertz metamaterials
Courseware	Electromagnetic radiation
Electronic learning	Bremsstrahlung
Mobile learning	Correlators
Engineering education	Electromagnetic wave absorption
Biomedical engineering education	Frequency



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Gamma-rays	Micromotors
Line-of-sight propagation	Micropumps
Terahertz radiation	Microvalves
Electromagnetic shielding	Radiofrequency
Cable shielding	microelectromechanical systems
Magnetic shielding	Microfluidics
Electromagnetic transients	Micromechanical devices
EMP radiation effects	Biomedical microelectromechanical
EMTDC	systems
EMTP	Fluidic microsystems
Power system transients	Microfabrication
Surges	Photoelectricity
Proximity effects	Photovoltaic effects
Interference	Shunts (electrical)
Clutter	Photovoltaic cells
Crosstalk	Light trapping
Diffraction	Quantum computing
Echo interference	Quantum algorithm
Electromagnetic interference	Quantum cellular automata
Radiofrequency interference	Quantum chemistry
Specific absorption rate	Quantum circuit
Electromagnetic radiative interference	Quantum circuit
Electromagnetic radiative interference	Quantum rietworks
	Qualitum simulation Qubit
Immunity testing	
Interchannel interference	Quantum well devices
Interference cancellation	Quantum well lasers
Interference channels	Quantum cascade lasers
Interference constraints	Quantum wells
Interference elimination	Two dimensional hole gas
Interference suppression	Semiconductivity
Intersymbol interference	Semiconductor devices
Rain fading	Flip-chip devices
Terrain factors	Gunn devices
TV interference	Hall effect devices
	Junctions
Electron devices	Heterojunctions
	Hybrid junctions
Cathode ray tubes	P-n junctions
Electron guns	Waveguide junctions
Electron multipliers	MIS devices
Electron tubes	Charge coupled devices
Field emitter arrays	MOS devices
Klystrons	MONOS devices
Magnetrons	Piezoresistive devices
Thyratrons	P-i-n diodes
Traveling wave tubes	Power semiconductor devices
Mechatronics	Power transistors
Biomechatronics	Power semiconductor switches
Microelectromechanical systems	Bipolar transistors
Microelectromechanical devices	Thyristors
Microactuators	Quantum dots
	Quartam doto



Quantum well lasers	Superconductive tunneling
Quantum cascade lasers	Tunneling magnetoresistance
Schottky diodes	Vacuum technology
Semiconductor counters	Photomultipliers
Semiconductor detectors	Vacuum electronics
Semiconductor device modeling	Vacuum systems
Semiconductor device noise	Gettering
Semiconductor diodes	Gottornig
P-i-n diodes	Electronic design automation and
Schottky diodes	methodology
Semiconductor-metal interfaces	moundadiogy
Superluminescent diodes	Design automation
Varactors	CADCAM
Semiconductor lasers	Logic design
Laser tuning	Reconfigurable logic
Quantum dot lasers	PSCAD
Quantum well lasers	Design methodology
Semiconductor laser arrays	Design for disassembly
Semiconductor laser arrays	Design for experiments
Surface emitting lasers	Design for manufacture
Semiconductor waveguides	Design for quality
Semiconductor waveguides	Design for testability
Silicon devices	Design for testabilityDesign standards
SONOS devices	Design standards
Superluminescent diodes	Graphics
Surface emitting lasers	Animation
Vertical cavity surface emitting	Arlimation
lasers	Character generation
Thermistors	
Transistors	Computer graphics
Field effect transistors	Engineering drawings
	Layout
Heterojunction bipolar transistorsMillimeter wave transistors	Shape
Phototransistors	Symbols
Static induction transistors	Virtual reality Visualization
Single electron devices	Green design
Single electron memory	Ecodesign
Hetero-nanocrystal memory	Green computing
Single electron transistorsThick film devices	Integrated design
Thick film devices	Process design Pattern formation
Thin film devices	
	Process modeling
Film bulk acoustic resonatorsThin film inductors	Product design
	Prototypes Breadboard
Thin film transistors	
Organic thin film transistors	Rapid prototyping
Tunneling	Technical drawing
Gate leakage	Time to market
Josephson effect	User centered design
Magnetic tunneling	Virtual prototyping
Resonant tunneling devices	



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Engineering – general	Formal specifications
A	Guidelines
Acoustical engineering	Standards
Agricultural engineering	Standards categories
Bio-inspired engineering	Standards organizations
Bio-inspired computing	Standards publications
Bio-inspired control	Thermal engineering
Bio-inspired robotics	
Chemical engineering	Engineering in medicine and biology
Civil engineering	
Geotechnical engineering	Biology
Excavation	Biochemistry
Geotechnical structures	Amino acids
Dams	Biochemical analysis
Railway engineering	Peptides
Railway safety	Proteins
Structural engineering	Receptor (biochemistry)
Offshore installations	Biodiversity
Concurrent engineering	Biogeography
Design engineering	Bioelectric phenomena
Design tools	Electric shock
Electrical engineering	Biological cells
Electrical engineering computing	Cell signaling
Engineering profession	Cells (biology)
Professional aspects	Chromosome mapping
Environmental engineering	Endothelial cells
Maintenance engineering	Fibroblasts
Maintenance management	RNA
Predictive maintenance	Stem cells
Preventive maintenance	Biological information theory
Condition monitoring	Biological processes
Systems support	Biological interactions
Mechanical engineering	Chronobiology
Mechanical power transmission	Circadian rhythm
Torque converters	Coagulation
Mechanical systems	Molecular biology
Mechanical energy	Symbiosis
Micromechanical devices	Biological system modeling
Suspensions (mechanical systems)	Biological systems
Optical engineering	Anatomy
Precision engineering	Molecular communication
Production engineering	(telecommunication)
Production planning	Organisms
Capacity planning	Biology computing
Materials requirements planning	Biophotonics
Process planning	Biophysics
Research and development	Aerospace biophysics
Translational research	Biomagnetics
	Cellular biophysics
Reverse engineering	
Sanitary engineering	Molecular biophysics
Standardization	Cryobiology



Evolution (biology)	Cloning
Memetics	Drug delivery
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Phylogeny Genetics	Targeted drug delivery
	Neural engineering
DNA	Neural circuits
Epigenetics	Neural microtechnology
Gene therapy	Neural nanotechnology
Genetic communication	Neural prosthesis
Genetic expression	Protein engineering
Genetic programming	Tissue engineering
Genomics	Regeneration engineering
Homeostasis	Translational research
Mechanobiology	Biomedical equipment
Microbiology	Assistive technology
Electroporation	Assistive devices
Virology	Closed captioning
Microinjection	Video description
Nanobioscience	Wheelchairs
DNA computing	Biomedical electrodes
Nanobiotechnology	Biomedical telemetry
Physiology	Biomedical transducers
Action potentials	Catheters
External stimuli	Endoscopes
Neuromodulation	Endomicroscopy
Predator prey systems	Gerontechnology
Synthetic biology	Hypodermic needles
Systematics	Implants
Systems biology	Auditory implants
Vegetation	Brainstem implants
Črops	Cochlear implants
Marine vegetation	Microelectronic implants
Zoology	Neural implants
Animals	Intracranial pressure sensors
Entomology	Lithotriptors
Biomedical communication	Medical devices
Biomedical telemetry	Medical instruments
Telemedicine	Pacemakers
Biomedical computing	Pulse oximeter
Bioinformatics	Stethoscope
Neuroinformatics	Surgical instruments
Medical expert systems	Laparoscopes
Medical information systems	Ventilators
Electronic medical records	Biomedical imaging
Biomedical engineering	Angiocardiography
Bioimpedance	Angiocardiography
Biological techniques	Biomedical optical imaging
Biomedical applications of radiationBiomedical electronics	Cardiography
	Echocardiography
Biomedical signal processing	Electrocardiography
Biomedical image processing	Phonocardiography
Biotechnology	DICOM



Elastography Encephalography Medical diagnostic imaging Anatomical structure Molecular imaging Phantoms Photoacoustic imaging Bionanotechnology Bioterrorism Computational biology Computational biochemistry Computational biophysics Computational biophysics Computational systems biology Genetic engineering Ambient assisted living Ambient assisted living Catheterization Clinical diagnosis Clinical neuroscience Cybercare Health information management Hospitals In vitro In vitro Medical conditions Anterysm Atrophy Autism Bilindness Cataracts Coperssion Autism Bilindness Cathers Catheers Catheers Autism Altophy Autism Bilindness Catheers Capers Capers Capers Altophy Autism Bilindness Capers C	Electography	Tumoro
Mammography Medical diagnostic imaging Molecular	• • •	
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Molecular imaging Computer aided diagnosis Phantoms Medical signal detection Plethysmography Bioterrorism Sensitivity and specificity Medical tests Computational biology Medical tests Amniocentesis Biopsy Computational systems biology Cancer detection Genetic engineering Colonoscopy Medical services Pregnancy test Assisted living Medical services Pregnancy test Assisted living Anesthesia Angioplasty Clinical diagnosis Brachytherapy Medical neuroscience Brain stimulation Cybercare Cancer teatment Angioplasty Clinical diagnosis Brachytherapy Medical treatment Medical neuroscience Brain stimulation Cybercare Cancer teatment Chemotherapy Health information management Clinical trials Cryotherapy Defibrillation D		• •
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Bionanotechnology Bioterrorism Computational biology Computational biology Computational biochemistry Computational biophysics Computational systems biology Genetic engineering Medical services Assisted living Anbient assisted living Anbient assisted living Clinical diagnosis Clinical neuroscience Clinical neuroscience Electronic healthcare Health information management Hospitals In vitro In vitro fertilization Aneurysm Actical conditions Aneurysm Atutism Biindness Cataracts Cataracts Cataracts Cataracts Cataracts Cathericaliure Autism Biindness Cataracts Catherism Catherism Deafness Deafness Intubation Diseases Hemorrhaging Neuromanus Hemorrhaging Neuromanus Hemorrhaging Neuromanus Neuromanus Hemorrhaging Neuromanus		
Bioterrorism		
Computational biology Computational biochemistry Computational biophysics Computational systems biology Genetic engineering Medical services Assisted living Anniocentesis Colonoscopy Medical treatment Assisted living Angioplasty Clinical diagnosis Clinical neuroscience Clinical neuroscience Electronic healthcare Health information management Hospitals In vitro In vitro Medical conditions Aneurysm Antiophy Antiophy Antiophy Antiophy Anesthesia Anagioplasty Clinical treatment Chemotherapy Clinical trials Crybercare Cancer treatment Chemotherapy Clinical trials Cryotherapy In vitro Defibrillation In sitro Medical conditions Aneurysm Aneurysm Electroporation Attophy Embolization Blindness Geriatrics Cataracts Hepatectomy Congestive heart failure Cybersickness Depression Lithotripsy Diabetes Diabetes Magnetic stimulation Neuromuscular stimulation Peression Neuromuscular stimulation Neuromuscular stimulation Peression Neuromuscular stimulation Preprancy Proton therapy Neuron capture therapy Precision medicine Pregnancy Stroke (medical condition) Occupational medicine	<u> </u>	• • •
Computational biochemistryComputational biochemistryComputational biophysicsComputational systems biologyCancer detectionCancer detectionCa	Bioterrorism	
Computational biophysics		
Computational systems biologyGenetic engineeringMedical servicesAssisted livingAmbient assisted livingCatheterizationCatheterizationClinical diagnosisClinical neuroscienceCybercareElectronic healthcareHealth information managementIn vitroIn vitro on the propertion of the propertio	Computational biochemistry	Amniocentesis
Genetic engineering Colonoscopy  Medical services Pregnancy test  Assisted living Medical treatment  Ambient assisted living Anesthesia  Catheterization Angioplasty  Clinical diagnosis Brachytherapy  Clinical neuroscience Brain stimulation  Cybercare Cancer treatment  Electronic healthcare Chemotherapy  In vitro Defibrillation  In vitro Defibrillation  Medical conditions Electrical stimulation  Atrophy Electrical stimulation  Atrophy Electroporation  Autism Electroporation  Blindness Geriatrics  Cataracts Hepatectomy  Congestive heart failure Hospitals  Cybersickness Hyperthermia  Deafness Intubation  Depression Lithotripsy  Diabetes Magnetic stimulation  Hemorrhaging Hyperthermia  Hyperthermia Orthopedic procedures  Injuries Obesity Pharmaceuticals  Pregnancy  Proton therapy  Stroke (medical condition)  Occupational medicine	Computational biophysics	Biopsy
Medical services  Assisted living Ambient assisted living  Catheterization Clinical diagnosis Clinical neuroscience Electronic healthcare Hospitals In vitro Medical treatment Angioplasty Clinical diagnosis Brachytherapy Cancer treatment Cancer treatment Clinical trials Chemotherapy Clinical trials Chemotherapy In vitro Defibrillation Dentistry In vitro Medical conditions Aneurysm Aneurysm Atrophy Autism Blindness Cataracts Cataracts Cataracts Cataracts Cataracts Caterates Chemotherapy Congestive heart failure Cryotherapy Electrocal stimulation Electroporation Fibrillation Geriatrics Cataracts Cataracts Hepatectomy Congestive heart failure Cybersickness Deafness Diabetes Magnetic stimulation Neutron capture therapy Hyperthermia Diseases Kidney stones Patient rehabilitation Obesity Pharmaceuticals Precision medicine Pregnancy Corcupational medicine	Computational systems biology	Cancer detection
Medical services  Assisted living Ambient assisted living  Catheterization Clinical diagnosis Clinical neuroscience Electronic healthcare Hospitals In vitro Medical treatment Angioplasty Clinical diagnosis Brachytherapy Cancer treatment Cancer treatment Clinical trials Chemotherapy Clinical trials Chemotherapy In vitro Defibrillation Dentistry In vitro Medical conditions Aneurysm Aneurysm Atrophy Autism Blindness Cataracts Cataracts Cataracts Cataracts Cataracts Caterates Chemotherapy Congestive heart failure Cryotherapy Electrocal stimulation Electroporation Fibrillation Geriatrics Cataracts Cataracts Hepatectomy Congestive heart failure Cybersickness Deafness Diabetes Magnetic stimulation Neutron capture therapy Hyperthermia Diseases Kidney stones Patient rehabilitation Obesity Pharmaceuticals Precision medicine Pregnancy Corcupational medicine	Genetic engineering	Colonoscopy
Assisted living		Pregnancy test
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Sleep apneaSurgeryOccupational medicine		Proton therapy
Stroke (medical condition)Occupational medicine		· •



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United Kingdom Space Agency	Patent law
Commercialization	Trademarks
Consortia	Patents
Economics	Product liability
Access charges	Warranties
Costs	
	Software protectionTrademarks
Cost benefit analysis	
Developing countries	Market research
Econometrics	Planning
Economic forecasting	Meeting planning
Economic indicators	Schedules
Share prices	Strategic planning
Electronic commerce	Roadmaps (technology planning)
Environmental economics	Technical planning
Carbon tax	Technology planning
Emissions trading	Product development
Exchange rates	Graphical user interfaces
Fuel economy	Avatars
International trade	Product customization
Macroeconomics	Product lifecycle management
Privatization	Prognostics and health
Microeconomics	management
Economies of scale	Software product lines
Industrial economics	Time to market
Monopoly	Project engineering
Oligopoly	Scheduling
Power generation economics	Adaptive scheduling
Electricity supply industry	Dynamic scheduling
deregulation	Job shop scheduling
Profitability	Single machine scheduling
Sharing economy	Turnkey project
Stock markets	Research and development
Supply and demand	management
Trade agreements	Innovation management
Venture capital	Creativity
Virtual enterprises	Research initiatives
Innovation management	Software development management
Creativity	Agile software development
Legal factors	Scrum (Software development)
Copyright protection	Model-driven development
Intellectual property	
Software protection	Geoscience and remote sensing
Law	
Censorship	Environmental factors
Commercial law	Biosphere
Consumer protection	Climate change
Contract law	Global warming
Criminal law	Ecology
Employment law	Ecosystems
Forensics	Wetlands
Law enforcement	Environmental economics



Carbon tax	Earth
Emissions trading	Earthquakes
Environmental monitoring	Earthquake engineering
Global warming	Forestry
Green manufacturing	Geochemistry
Green products	Geoengineering
Green buildings	Geography
Green buildings	Rural areas
Green dearling	Urban areas
Pollution	Geology
Air pollution	Landslides
Emissions trading	Minerals
Industrial pollution	Rocks
•	
Land pollution	Geophysics EMTDC
Oil pollutionRadioactive pollution	
•	Extraterrestrial phenomena
Thermal pollution	Geodynamics
Urban pollution	Geophysics computing
	Meteorology
Geographic information systems	Moisture
Geospatial analysis	Seismology
Gunshot detection systems	Surface waves
Geophysical measurement techniques	Well logging
Geophysical image processing	lce
Geophysical measurements	lce shelf
Geodesy	lce surface
Level measurement	lce thickness
Sea measurements	Sea ice
Geoacoustic inversion	Lakes
Seismic measurements	Land surface
Geophysical signal processing	Levee
Geoscience	Meteorological factors
Antarctica	Oceanography
South Pole	Ocean circulation
Arctic	Oceans
North Pole	Ocean salinity
Atmosphere	Ocean temperature
Air quality	Sea coast
Atmospheric modeling	Sea floor
Atmospheric waves	Sea level
Biosphere	Sea surface
Continents	Tides
Africa	Rivers
Asia	Sediments
Australia	Soil
Europe	Soil moisture
North America	Soil properties
South America	Soil texture
Cyclones	Tornadoes
Hurricanes	Tsunami
Tropical cyclones	Volcanoes
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Planetary volcanoes	Terrestrial atmosphere
Volcanic activity	Clouds
Volcanic ash	Global warming
Wetlands	lonosphere
Land surface temperature	Magnetosphere
Photometry	Vegetation mapping
Radar	v egetation mapping
Airborne radar	IEEE organization
Bistatic radar	ILLE Organization
Cognitive radar	IEEE activities
Doppler radar	IEEE Awards activities
Ground penetrating radar	IEEE Corporate awards
High frequency radar	IEEE Society awards
Laser radar	IEEE Standards awards
	IEEE Standards awards
Meteorological radar Millimeter wave radar	
Multistatic radar	National Society Agreement awardsIEEE Conference activities
MIMO radar Passive radar	IEEE Corporate activitiesHumanitarian activities
Quantum radar	IEEE Educational activities
Radar applications	IEEE Intersociety activities
Radar countermeasures	IEEE Local activities
Radar detection	IEEE Member and Geographic
Radar imaging	activities
Radar measurements	IEEE Professional activities
Radar polarimetry	IEEE publishing
Radar remote sensing	IEEE Standards activities
Radar tracking	IEEE Student activities
Radar clutter	IEEE Technical activities
Radar cross-sections	IEEE United States activities
Radar equipment	IEEE Volunteer activities
Radar theory	IEEE entities
Spaceborne radar	IEEE Boards
Spread spectrum radar	IEEE Center for the History of
Synthetic aperture radar	Electrical Engineering
Inverse synthetic aperture radar	IEEE Chapters
Polarimetric synthetic aperture	IEEE Committees
radar	IEEE Communities
Ultra wideband radar	IEEE Computer Society Press
Radiometry	IEEE Councils
Microwave radiometry	IEEE Foundation
Radiometers	IEEE Press
Spectroradiometers	IEEE Regions
Remote sensing	IEEE Sections
Hyperspectral sensors	IEEE Societies
Hyperspectral imaging	IEEE governance
Passive microwave remote sensing	IEEE bylaws
Quantum radar	IEEE Constitution
Remote monitoring	IEEE mission and vision
Terrain mapping	IEEE policy and procedures
Digital elevation models	IEEE staff

IEEE indexing	DICOM
Awards	Elastography
Book reviews	Encephalography
CD-ROM reviews	Mammography
Interviews	Medical diagnostic imaging
Obituaries	Anatomical structure
Software reviews	Molecular imaging
Special issues and sections	Phantoms
Tutorials	Photoacoustic imaging
Video reviews	Cameras
IEEE members	Digital cameras
IEEE Associate Members	Smart cameras
IEEE Fellows	Webcams
IEEE Life Members	Focusing
IEEE Senior Members	Ground penetrating radar
IEEE Student Members	Holography
IEEE news	Image converters
IEEE Chapter news	Image converters
IEEE Region news	Image intensiners
IEEE Section news	Active pixel sensors
	CCD image sensors
IEEE Society news	
IEEE products	Charge-coupled image sensors
IEEE audio tapes	CMOS image sensors
IEEE catalogs IEEE Collabratec	Infrared image sensors
	Image storage
IEEE educational productsIEEE merchandise	Infrared imaging
	Night vision
IEEE publications	Magnetic resonance imaging
IEEE books	Diffusion tensor imaging
IEEE conference proceedings	Functional magnetic resonance
IEEE directories	imaging
IEEE journals	Magnetic resonance elastography
IEEE magazines	Magnetic resonance fingerprinting
IEEE newsletters	Magneto electrical resistivity imaging
IEEE online publications	technique
IEEE standards publications	Microscopy
IEEE transactions	Atomic force microscopy
Notice of Violation	Electron microscopy
IEEE Xplore	Photoelectron microscopy
IEL	Scanning electron microscopy
	Transmission electron microscopy
Imaging	Endomicroscopy
	Scanning microwave microscopy
Biomedical imaging	Scanning probe microscopy
Angiocardiography	Scanning thermal microscopy
Angiography	Microwave imaging
Biomedical optical imaging	Multispectral imaging
Cardiography	Nuclear imaging
Echocardiography	Energy resolution
Electrocardiography	lon emission
Phonocardiography	Optical imaging



	CARCANA
Optical flow	CADCAM
Optical projectors	Silicon compiler
Talbot effect	Computer integrated manufacturing
Thermoreflectance imaging	Computer numerical control
Photography	Flexible manufacturing systems
Cinematography	Testing
Digital photography	Aerospace testing
Image forensics	Wind tunnels
Photomicrography	Automatic testing
Photorealism	Automatic test pattern generation
Radiation imaging	Ring generators
Radiography	Benchmark testing
Diagnostic radiography	Built-in self-test
Stereo vision	Circuit testing
Stereo image processing	Integrated circuit measurements
Terahertz wave imaging	Conformance testing
Tomography	Electronic equipment testing
Computed tomography	Immunity testing
Single photon emission computed	Error analysis
tomography	Bit error rate
Electrical capacitance tomography	Finite wordlength effects
Electrical impedance tomography	Error-free operations
Optical coherence tomography	Failure analysis
Positron emission tomography	Equipment failure
Whole-body PET	Semiconductor device breakdown
Reconstruction algorithms	Frequency response
	Impulse testing
Industrial electronics	Insulator testing
A 11 (	Insulation testing
Assembly systems	Integrated circuit testing
Flexible electronics	Integrated circuit yield
Robotic assembly	Logic testing
Computer aided manufacturing	Life testing
CADCAM	Materials testing
Silicon compiler	Accelerated aging
Cryogenic electronics	Acoustic testing
Industrial control	Adhesive strength
Process control	Bonding forces
Predictive control	Delamination
Three-term control	Elastic recovery
Two-term control	Nondestructive testing
Production control	Optical fiber testing
Continuous production	Remaining life assessment
Lot sizing	Ring generators
Optimized production technology	Semiconductor device testing
Scheduling	Software testing
Integrated manufacturing systems	Combinatorial testing
Machine control	Fuzzing
Machine vector control	System testing
Manufacturing automation	Model checking
Computer aided manufacturing	Test equipment
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Automatic test equipment	Electrostatic devices
Test facilities	Electrostatic precipitators
Anechoic chambers	Electrostatic processes
Laboratories	Aerosols
Large Hadron Collider	Electrophotography
Open area test sites	Electrostatic analysis
TEM cells	Electrostatic induction
Wind tunnels	Electrostatics
	Electrostatic levitation
Industry applications	Particle charging
	Particle production
Accident prevention	Space charge
Accidents	Surface charging
Aerospace accidents	Triboelectricity
Electrical accidents	Triboelectricity
Industrial accidents	Engines
Marine accidents	Heat engines
Railway accidents	Steam engines
Road accidents	Stirling engines
Chemical technology	Internal combustion engines
Chemical reactors	Diesel engines
Bioreactors	lgnition
Catalysis	Jet engines
Continuous-stirred tank reactor	Environmental management
lgnition	Biodegradation
Chemical sensors	Biodegradable materials
Crystallizers	Land use planning
Distillation equipment	Pest control
Fluidization	Pollution control
Pharmaceutical technology	Recycling
Vitrification	Renewable energy sources
Cryogenics	Biomass
Liquid nitrogen	Sustainable development
Electrochemical devices	Waste management
Amperometric sensors	Waste disposal
Batteries	Waste handling
Lead acid batteries	Waste recovery
Lithium batteries	Waste reduction
Lithium-ion batteries	Water conservation
Lithium-sulfur batteries	Desalination
Nickel cadmium batteries	Water resources
Solid state batteries	Desalination
Battery management systems	Reservoirs
Fuel cells	Water monitoring
Supercapacitors	Food technology
Electrochemical processes	Food preservation
Electromechanical systems	High-temperature techniques
Cruise control	Rapid thermal processing
Electromechanical devices	Industrial engineering
Armature	Industrial communication
SAW filters	Industries



Agriculture	Coal mining
Agricultural products	Natural gas industry
Aquaculture	Petroleum industry
Digital agriculture	Oil drilling
Fertilizers	Oil refineries
Greenhouses	Well logging
Irrigation	Power industry
Architecture	Electrical equipment industry
Beverage industry	Electricity supply industry
Chemical industry	Nuclear facility regulation
Coal industry	Power system interconnection
Communication industry	Steel industry
Computer industry	Sugar industry
Construction	Sugar refining
Buildings	Textile technology
Green buildings	Spinning
Modular construction	Weaving
Prefabricated construction	Tourism industry
Stairs	Toy industry
Construction industry	Transportation industry
Prefabricated construction	Wood industry
Defense industry	Inspection
Electrical engineering industry	Automatic optical inspection
Entertainment industry	Machinery
Sports	Agricultural machinery
Financial industry	Agricultural robots
Banking	Ball bearings
Financial services	Belts
Gas industry	Drives
Information industry	Hydraulic drives
Manufacturing industries	Motor drives
Aerospace industry	Variable speed drives
Cement industry	Electric machines
Ceramics industry	AC machines
Clothing industry	Alternators
Electrical products industry	Brushless machines
Electronics industry	Compressors
Food industry	Conductors
Footwear industry	DC machines
Fuel processing industries	Electric fences
Glass industry	Generators
Machinery production industries	Permanent magnet machines
Metal product industries	Rotating machines
Plastics industry	Rotors
Pulp and paper industry	Stators
Rubber industry	Washing machines
Shipbuilding industry	Fans
Textile industry	Furnaces
Toy manufacturing industry	Blast furnaces
Metals industry	Kilns
Mining industry	Gears



Fabrication	
Hydraulia ayatama Panding processos	
Hydraulic systemsBonding processes	
ElectrohydraulicsMicrofabrication	
Machine componentsWelding	
Green manufacturing	
Lithography	
CamsColloidal lithography	
Engine cylindersExtreme ultraviolet lithograph	У
Exhaust systemsInterferometric lithography	
Soft lithography	
Stereolithography	
X-ray lithography	
PistonsManufactured products	
RotorsCeramic products	
ShaftsChemical products	
ValvesConsumer products	
MotorsElectrical products	
Brushless motorsFuels	
Glass products	
DC motorsMechanical products	
Blectric motorsMetal products	
Paper products	
Paper pulp	
MicromotorsPlastic products	
Permanent magnet motorsRubber products	
ServomotorsSports equipment	
Traction motorsTextile products	
Tools	
Printing machineryWindows	
PumpsManufacturing systems	
Fuel pumpsAgile manufacturing	
Automobile manufacture	
Batch production systems	
Blanking	
Cellular manufacturing	
Flow production systems	
Spinning machinesFood manufacturing	
ManufacturingForging	
Glass manufacturing	
FittingIntegrated manufacturing sys	tems
MicroassemblyIntelligent manufacturing syst	ems
Dob production systems	
SolderingJoining processes	
Assembly systemsLayered manufacturing	
Flexible electronicsLean production	
Robotic assemblyManufacturing processes	
EmbossingMass production	



Melt processing	Softening
Pulp manufacturing	Soliening
•	Mechanical products
Sheet metal processing	•
Thermoforming	Automotive components
Three-dimensional printing	Axles
Mass customization	Bellows
Smart manufacturing	Blades
Tolerance analysis	Brakes
Packaging	Couplings
Bagging	Fasteners
Bottling	Flanges
Canning	Gears
Encapsulation	Hoses
Food packaging	Machine components
Labeling	Mechanical guides
Multichip modules	Needles
Nanopackaging	Orifices
Plastic packaging	Pistons
Wrapping	Pressure vessels
Paper technology	Seals
Production	Springs
Ball milling	Steering systems
Compression molding	Structural shapes
Embossing	Tires
Food products	Vents
Dairy products	Wheels
Fats	Process planning
Food waste	Business process integration
Sugar	Business process management
Group technology	Cause effect analysis
Injection molding	Root cause analysis
Materials processing	Production control
Annealing	Continuous production
Bleaching	Lot sizing
Casting	Optimized production technology
Coatings	Scheduling
Curing	Production engineering
Etching	Production planning
Heat treatment	Production equipment
Joining processes	Applicators
Lamination	Clamps
Laser materials processing	Cutting tools
Machining	Fixtures
Melt processing	Machine tools
Plasma materials processing	Mining equipment
Plating	Molding equipment
Pressing	Packaging machines
Punching	Paper making machines
Refining	Polishing machines
Shearing	Soldering equipment
Smelting	Production facilities
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Greenhouses Industrial facilities Industrial facilities Occupational safety Machine shops Paper mills Production management Control charts Inventory management Lead time reduction Logistics Production planning Production materials Automotive materials Inhibitors Ink Joining materials Lubricants Retardants Production systems Assembly systems Intelligent manufacturing systems Lean production Manufacturing systems Steering systems Productivity Springs Transfer molding Tarasfer molding Safety Aerospace safety Computer hacking Coccupational safety Denial oscillation Coccupational safety Aerospace safety Computer security Application security Application security Application security Application security Computer security Comp	Foundries	Toxicology
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Process planning Radiation safety Production planning Radiation protection Production materials Safety devices  Abrasives Eye protection  Aerospace materials Fire extinguishers Automotive materials Frotective clothing Inhibitors Safety management Ink Vehicle safety Joining materials Advanced driver assistance Lubricants Systems Retardants Lane departure warning systems Production systems Security Exhaust systems Security Exhaust systems Access control Intelligent manufacturing systems Lane detection Blacklisting Manufacturing systems Authorization Lean production Blacklisting Manufacturing systems Shafts Smoke detectors Camshafts Springs Computer security Springs Computer security Air safety Computer security Air safety Computer security Domestic safety Computer crime Domestic safety Computer hacking Explosion protection Cyber espionage Fire safety Cyber warfare Explosion Fires Hondon Fires Hondon Fires Hondon Fires Hondon Fires Hondon Fires Hondon Hazardos Mobile security Mobile security Internet security		
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Aerospace materials  Automotive materials  Inhibitors  Ink  Joining materials  Lubricants  Retardants  Production systems  Exhaust systems  Lean production  Intelligent manufacturing systems  Productivity  Shafts  Camshafts  Camshafts  Springs  Transfer molding  Aerospace safety  Aerospace safety  Domestic safety  Explosion protection  Emergency services Explosions  Explosions  Explosions  Automizetive clothing  Safety management  Mavufacatd driver assistance systems  Lane departure warning systems  Lane detection  Security  Access control  Authorization  Blacklisting  Multi-factor authentication  Password  Alarm systems  Multi-factor authentication  Password  Alarm systems  Smoke detectors  Capability-based security  Computer security  Application security  Authentication  Countermeasures (computer)  Computer rime  Countermeasures (computer)  Cyber espionage  Cyber espionage  Cyber sepionage  Fires  Biohazards  Data integrity  Computing and and and any any and any		
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Joining materialsLubricantsRetardants	Inhibitors	Safety management
Lubricants  Retardants  Retardants  Assembly systems  Exhaust systems  Lean production  Intelligent manufacturing systems  Lean production  Manufacturing systems  Ereing systems  Multi-factor authentication  Steering systems  Productivity  Alarm systems  Shafts  Camshafts  Camshafts  Camshafts  Camputer security  Transfer molding  Aerospace safety  Air safety  Domestic safety  Fall detection  Emergency services  Explosion protection  Emergency services  Explosions  Explosions  Fires  Biandards  Camputer security  Computer reime  Computer reime  Computer reime  Computer reime  Computer security  Computer security  Computer crime  Computer crime  Computer crime  Computer security	Ink	Vehicle safety
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Production systems  Assembly systems  Exhaust systems  Intelligent manufacturing systems  Lean production  Manufacturing systems  Steering systems  Productivity  Alarm systems  Shafts  Camshafts  Springs  Transfer molding  Aerospace safety  Domestic safety  Domestic safety  Emergency services  Explosions  Fire safety  Chemical hazards  Biacklisting  Multi-factor authentication  Blacklisting  Multi-factor authentication  Multi-factor authentication  Capability-based security  Capability-based security  Capability-based security  Computer security  Application security  Application security  Computer prime  Countermeasures (computer)  Computer hacking  Computer hacking  Computer hacking  Cyber espionage  Cyber warfare  Cyber affare  Cyber affare  Cyber affare  Cyber affare  Data integrity  Chemical hazards  Denial-of-service attack  Explosions  Fires  Honey pot (computing)  Internet security  Mobile security	Lubricants	systems
	Retardants	Lane departure warning systems
Exhaust systems Intelligent manufacturing systems Lean production  Manufacturing systems Steering systems Multi-factor authentication  Steering systems Multi-factor authentication  Productivity Malarm systems Shafts Smoke detectors Camshafts Capability-based security  Springs Computer security  Transfer molding Application security  Safety Authentication  Aerospace safety Cloud computing security  Air safety Computer crime Domestic safety Computer hacking Fall detection Countermeasures (computer)  Emergency services Cross-site scripting Explosion protection Cyber espionage Fire safety Cyber warfare  Hazards Biohazards Data integrity Chemical hazards Fires Honey pot (computing) Fires Honey pot (computing) Internet security Internet security  Authorization Authorization Capability-based security  Capability-based security  Computer security  Application security  Computer security  Internet security  Mobile security	Production systems	Lane detection
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Mobile security		
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Password		
	Hazardous materials	Password



Penetration testing	Polar codes
Pernetration testing	
	Combined source-channel coding
Phishing	Turbo codes
Proof of Work	Codes
Trusted computing	Binary codes
Control system security	Reflective binary codes
Physical unclonable function	Convolutional codes
Cryptography	Cyclic redundancy check codes
Ciphers	Error correction codes
Cryptocurrency	Reed-Muller codes
Cryptographic hash function	Reed-Solomon codes
Encryption	Parity check codes
Public key	Iterative decoding
Quantum cryptography	Product codes
Random number generation	Bar codes
Side-channel attacks	Space-time codes
Zero knowledge proof	Zero correlation zone
Data security	Communication channels
Cryptography	Channel allocation
Message authentication	Spectral efficiency
Tokenization	Channel capacity
Digital signatures	Channel estimation
Information security	Channel models
Cyber espionage	Channel spacing
Data breach	Channel state information
Intrusion detection	Gaussian channels
Phishing	AWGN channels
Privacy breach	Multipath channels
Social engineering (security)	Multiuser channels
SQL injection	Partial response channels
Trust management	Quantum channel
Network security	Throughput
Network reconnaissance	Time-varying channels
Power system security	Decoding
Reconnaissance	Maximum likelihood decoding
Security management	Encoding
Terrorism	Audio coding
Bioterrorism	Channel coding
	Block codes
Cyber terrorismNational security	Combined source-channel coding
•	Turbo codes
Watermarking	
Wine industry Wineries	Code refractoring
vvineries	Digital representation
Information theory.	Entropy coding
Information theory	Huffman coding
Audio adding	Precoding
Audio coding	Source coding
Biological information theory	Speech coding
Channel coding	Transcoding
Block codes	Error compensation
Linear codes	Genetic communication



Hamming distance	Breakdown voltage
Hamming weight	Dynamic voltage scaling
Information entropy	Threshold voltage
Mutual information	Voltage fluctuations
Network coding	Wiring
Rate distortion theory	High energy physics instrumentation
Channel rate control	computing
Rate-distortion	Linear particle accelerator
Source coding	Instruments
Speech coding	Compass
Technology acceptance model	Medical instruments
<b>3</b> 7	Meters
Instrumentation and measurement	Dynamometers
	Flowmeters
Computerized instrumentation	Goniometers
Electric variables	Potentiometers
Admittance	Radiometers
Capacitance	Tachometers
Parasitic capacitance	Vibrometers
Quantum capacitance	Voltmeters
Capacitance-voltage characteristics	Watthour meters
Conductivity	Wattmeters
Photoconductivity	Microscopy
Semiconductivity	Atomic force microscopy
Transconductance	Electron microscopy
Current	Endomicroscopy
Bioimpedance	Scanning microwave microscopy
Current slump	Scanning microwave microscopy
Dark current	• · · · · · · · · · · · · · · · · · · ·
Fault currents	Network analyzers
	Oscilloscopes
Leakage currents	Pressure gauges
Persistent currents	Probes
Short-circuit currents	Telescopes
Threshold current	Theodolites
Current-voltage characteristics	Tuners
Electric potential	Measurement
Gain	Accelerometers
Impedance	Acoustic measurements
Impedance matching	Antenna measurements
Baluns	Anthropometry
Inductance	Area measurement
Permittivity	Atmospheric measurements
Piezoresistance	Atomic measurements
Q-factor	Bathymetry
Resistance	Biomedical measurement
Electric resistance	Biomarkers
Piezoresistance	Biomedical monitoring
Surface resistance	Electroencephalography
Thermal resistance	Electromyography
Viscosity	Electrooculography
Voltage	Electrophysiology



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Photoplethysmography	Gas chromatography
Plethysmography	Geologic measurements
Pulse oximeter	Geophysical measurements
Reproducibility of results	Geodesy
Sensitivity and specificity	Sea measurements
Calorimetry	Seismic measurements
Coordinate measuring machines	Interferometry
Density measurement	Fabry-Perot
Hydrometers	Interferometers
Distance measurement	Optical interferometry
Euclidean distance	Phase shifting interferometry
Distortion measurement	Radar interferometry
Total harmonic distortion	Radio interferometry
Doppler measurement	Sagnac interferometers
Dospher measurement	Key performance indicator
Dynamic range Electric variables measurement	Length measurementLifetime estimation
Admittance measurement	Loss measurement
Ammeters	Packet loss
Attenuation measurement	Magnetic variables measurement
Capacitance measurement	Magnetic anomaly detection
Conductivity measurement	Magnetic field measurement
Current measurement	Magnetometers
Dielectric measurement	Permeability measurement
Electrical resistance measurement	Measurement by laser beam
Electrostatic measurements	Laser velocimetry
Energy measurement	Measurement errors
Impedance measurement	Measurement techniques
Inductance measurement	Calibration
Partial discharge measurement	Dynamic equilibrium
Phasor measurement units	Measurement uncertainty
Power measurement	Measurement units
Q measurement	International System of Units
Rydberg atoms	Nanometers
Transmission line measurements	Mechanical variables measurement
Voltage measurement	Angular velocity
Electromagnetic measurements	Displacement measurement
<u> </u>	Force measurement
Electromagnetic modeling	Motion measurement
Linearity	
Microwave measurement	Position measurement
Millimeter wave measurements	Rotation measurement
Parameter extraction	Strain measurement
Polarimetry	Stress measurement
Radiometry	Thickness measurement
Submillimeter wave measurements	Torque measurement
Extraterrestrial measurements	Velocity measurement
Fluid flow measurement	Vibration measurement
Frequency measurement	Volume measurement
Frequency estimation	Weight measurement
Frequency-domain analysis	Micrometers
Gain measurement	Moisture measurement



Noise measurementMultiple signal classificationNoise figureNoise shapingNoise shapingDetricle trackingDetricle trackingDetric	Humidity measurement	Resonance light scattering
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Electron paramagnetic resonanceEquipment failure		
Fourier transform infraredSemiconductor device breakdown		
spectroscopyFrequency response	spectroscopy	Frequency response
Kirchhoff's LawImpulse testing	•	
Mass spectroscopyInsulator testing		•
MERISInsulation testing		
Neutron spin echoIntegrated circuit testing		
Photoacoustic effectsIntegrated circuit yield		



Logic tecting	Dadio povigation
Logic testing	Radio navigation
Life testing	Satellite navigation systems
Materials testing	Global navigation satellite system
Accelerated aging	Global Positioning System
Acoustic testing	Satellite constellations
Adhesive strength	Sonar navigation
Bonding forces	Transportation
Delamination	Air transportation
Elastic recovery	Aircraft
Nondestructive testing	Airports
Optical fiber testing	Escalators
Remaining life assessment	Green transportation
Ring generators	Land transportation
Semiconductor device testing	Rail transportation
Software testing	Road transportation
Combinatorial testing	Public transportation
Fuzzing	Seaports
System testing	Smart transportation
Model checking	Vehicles
Test equipment	Connected vehicles
Automatic test equipment	Hydrogen powered vehicles
Test facilities	Intelligent vehicles
Anechoic chambers	Land vehicles
Laboratories	Military vehicles
Large Hadron Collider	Space vehicles
Open area test sites	
	Lasers and electrooptics
TEM cells	Lasers and electrooptics
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Laser excitation Laser modes Laser modes Laser modes Laser mode locking Laser transitions Power lasers Quantum well lasers Quantum well lasers Semiconductor laser arrays Semiconductor optical amplifiers Solid lasers Microchip lasers Quantum well lasers Solid lasers Microchip lasers Quantum well lasers Surface emitting lasers Surface emittin	Lagorthagry	Foot light
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Optical fiber applications	Radiative recombination
Optical fiber devices	
Optical harmonic generation	Magnetics
Optical losses	<b>D</b>
Optical microscopy	Biomagnetics
Optical mixing	Magnetoencephalography
Multiwave mixing	Demagnetization
Optical polarization	Gyromagnetism
Polarization shift keying	Magnetic analysis
Stokes parameters	Magnetization
Optical pulses	Magnetic anisotropy
Optical retarders	Magnetic domain walls
Optical saturation	Magnetic domains
Optical solitons	Magnetic moments
Optical tuning	Perpendicular magnetic anisotropy
Particle beam optics	Magnetic devices
Atom optics	Accelerator magnets
Electron optics	Ferrite devices
Stimulated emission	Circulators
Photoluminescence	Magnetic cores
Physical optics	Transformer cores
Optical refraction	Magnetic gears
Optical vortices	Magnetic heads
Ray tracing	Magnetic memory
Stray light	Floppy disks
Ultrafast optics	Hard disks
Whispering gallery modes	Magnetic modulators
Optoelectronic devices	Magnetooptic devices
Charge-coupled image sensors	Magnetoresistive devices
Integrated optoelectronics	Magnetostrictive devices
Light emitting diodes	Solenoids
Inorganic light emitting diodes	Transformer cores
LED lamps	Undulators
Organic light emitting diodes	Magnetic fields
Superluminescent diodes	Geomagnetism
Photoconducting devices	Magnetic reconnection
Electrophotography	Magnetic separation
Photodetectors	Magnetostatics
Photodiodes	Toroidal magnetic fields
Phototransistors	Magnetic flux
Superconducting photodetectors	Flux pinning
Superluminescent diodes	Magnetic flux density
Photonics	Magnetic flux leakage
Biophotonics	Magnetic force microscopy
Microwave photonics	Magnetic forces
Nanobiophotonics	Coercive force
Nanophotonics	Magnetic hysteresis
Photochromism	Magnetic levitation
Photothermal effects	Magnetic levitation vehicles
Silicon photonics	Magnetic losses
Spontaneous emission	Magnetic materials



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Amorphous magnetic materials	Giant magnetoresistance
Antiferromagnetic materials	Ordinary magnetoresistance
Diamagnetic materials	Tunneling magnetoresistance
Ferrimagnetic films	Spintronics
Ferrite films	Magnetomechanical effects
Garnet films	Magnetic field induced strain
Ferrimagnetic materials	Magnetoelasticity
Ferrimagnetic films	Magnetostriction
Ferrite films	Magnetostriction
Ferrites	Magnetooptic effects
Garnet films	Faraday effect
Garnets	Gyrotropism
Ferrite films	Magnets
Ferrites	Electromagnets
Ferrite films	Superconducting magnets
Ferrofluid	Micromagnetics
Ferromagnetic materials	Permanent magnets
Garnet films	Magnonics
Garnets	Microwave magnetics
Garnet films	Nonlinear magnetics
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Magnetic liquids	Chemical elements
Magnetic semiconductors	Actinium
Magnetic serificonductors	Aluminum
Paramagnetic materials	Aluminum alloys
Soft magnetic materials	Aluminum compounds
Magnetic materials	Americium
Magnetic multilayers Magnetic particles	Antimony
Magnetic particlesMagnetic properties	Artumorty Arsenic
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Magnetic sensors	Arsenic compounds
Spin valves	Astatine
Magnetic susceptibility	Berkelium
Magnetic switching	Beryllium
Magnetization processes	Boron
Magnetization reversal	Boron alloys
Saturation magnetization	Bromine
Magnetoacoustic effects	Bromine compounds
Magnetoelectric effects	Californium
Hall effect	Carbon
Magnetic tunneling	Carbon nanotubes
Magnetoelectronics	Diamond
Spin polarized transport	Fullerenes
Magnetoresistance	Graphene
Anisotropic magnetoresistance	Graphite
Ballistic magnetoresistance	Cerium
Colossal magnetoresistance	Cesium
Enhanced magnetoresistance	Chlorine
Extraordinary magnetoresistance	Chlorine compounds



Damstadtium Dysprosium	Curium	Tachnatium
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Hafnium	Gadolinium	Titanium compounds
Hafnium compounds Helium Holmium Holmium Hydrogen Deuterium Jodine compounds Iridium Bismuth compounds Iridium Bismuth compounds Isotopes Frypton Lutetium Mercury (metals) Mercury (metals) Mitrogen Nitrogen Nitrogen Nitrogen Nitrogen Nitrogen Deutenium Silicon nitride Neptunium Oxygen Phosphorus Praseodymium Praseodymium Praseodymium Praseodymium Praseodymium Protactinium Radium Redium Rediu	Gadolinium oxide	Titanium dioxide
Helium	Hafnium	Titanium nitride
Holmium Ytterbium Yttrium  Hydrogen Yttrium  Deuterium Yttrium compounds  Iodine Zirconium  Iodine compounds  Iridium Bismuth compounds  Bismuth compounds  Gallium compounds  Mauminum gallium nitride  Gallium arsenide  Mercury (metals)  Mercury (metals)  Molybdenum Indium gallium arsenide  Neon Indium gallium arsenide  Neon Indium gallium arsenide  Netrogen Indium gallium arsenide  Indium compounds  Indium gallium arsenide  Indium compounds  Indium compounds  Indium gallium arsenide  Indium compounds  Indium compounds  Indium compounds  Indium compounds  Indium compounds  Indium gallium arsenide  Indium gallium arsenide Indium gallium arsenide Indium  Indium gallium arsenide Indium galium arsenide Indium galium galium arsenide Indium galium arsenide Indium galium arsenid	Hafnium compounds	Uranium
Hydrogen	Helium	Vanadium
	Holmium	Ytterbium
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Plutonium		
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SeleniumWarehousingSodiumWater storageSulfurDamsSulfur compoundsReservoirs	Ruthenium	Stacking
SodiumWater storageDamsSulfur compoundsReservoirs	Scandium	Storage automation
SulfurDamsReservoirs	Selenium	Warehousing
SulfurDamsReservoirs	Sodium	
	Sulfur	Dams
	Sulfur compounds	Reservoirs
		Materials



Acoustic materials	Conductive films
Additives	Dielectric films
	Epitaxial layers
Aggregates Amorphous materials	Ferrimagnetic films
Diamond-like carbon	Ferrite films
Glass	
	Garnet films
Auxetic materials	Magnetic films
Biological materials	Optical films
Bioceramics	Piezoelectric films
Biomedical materials	Plastic films
Bioceramics	Polymer films
Biomembranes	Semiconductor films
Building materials	Thick films
Asphalt	Thin films
Concrete	Fluids
Floors	Ferrofluid
Mortar	Fluid dynamics
Tiles	Gases
Windows	Hydraulic fluids
Catalysts	Liquids
Electrocatalysts	Viscosity
Photocatalysts	Hazardous materials
Ceramics	Inorganic materials
Bioceramics	Lacquers
Porcelain	Laminates
Composite materials	Magnetic materials
Cermet	Amorphous magnetic materials
Conducting materials	Antiferromagnetic materials
Electrolytes	Diamagnetic materials
Corrosion inhibitors	Ferrimagnetic films
Crystalline materials	Ferrimagnetic materials
Martensite	Ferrite films
Nanocrystals	Ferrites
Perovskites	Ferrofluid
Superlattices	Ferromagnetic materials
Crystals	Garnet films
Colloidal crystals	Garnets
Crystal microstructure	Magnetic films
Crystallography	Magnetic lims
Grystallography	Magnetic liquids
Grain boundaries	Magnetic semiconductors
Liquid crystals	Paramagnetic materials
Quartz crystals	Soft magnetic materials
Dielectric materials	Material properties
Dielectric films	Creep
Dielectric liquids	Elasticity
Electrets	Elongation
Epoxy resins	Resilience
High-k dielectric materials	Rigidity
Piezoelectric materials	Media
Films	Nonhomogeneous media



Random media Mesoporous materials Metal foam Metallic materials  Electromagnetic metamaterials Optical dockling Optical materials Nanostructured materials Nanostructured materials Nanocomposites Nanocomposites Nanocomposites Nanocomposites Nanocomposites Nanoporous materials Nanoporous materials Oulis Uubricating oils Lubricating oils Lubricating oils Uegetable oils Optical materials Optical materials Optical polymers Optical polymers Optical polymers Optical polymers Optical polymers Optical polymers Organic inorganic hybrid materials Organic materials Paper pulp Petrochemicals Phase change materials Phase change materials Photoconducting materials Phastics Epoxy resins Photoconducting materials Phastic optical fiber Polymer foams Polymer gels Polymer gels Polymers Azobenzene Biopolymers Optical polymers Optical polymers Optical polymers Optical polymers Optical polymers Optical polymers Polycaprolactone Production materials Abrasives Aerospace materials Automotive materials  Radioactive materials Radioactive waste Semiconductor materials  Il-V1 semiconductor materials Indium plopshide I	Photorealism	Lubricants
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Organic materials	Photorefractive materials	Magnetic semiconductors
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Electronic waste Food waste Industrial waste Radioactive waste Surries Surries Surries Materials science and technology Absorption Aging Accelerated aging Activation analysis Chemical analysis Electronic noses Degradation Surface contamination Surface contamination Surface contamination Filtration Miterials handling Cleaning Materials handling Decontamination Preight handling Materials preparation Doping Materials reliability Accelerated aging Metaurfaces Corrosion Corrosion Corrosion Corrugated surfaces Surfaces Surfaces Surfaces Surfaces Surfaces Surfaces Surfaces Surfaces Surface impedance Surface roughness Surface roughness Surface soil Surface soil Surface soil Surface structures Surface structures Surface structures Surface estructures Surface texture Microfiltration Surface texture Metals Metals Metals Materials preparation Aluminum Aluminum Aluminum alloys Aluminum alloys Aluminum alloys Aluminum compounds Barium Barium compounds Barium Barium compounds Barium Cadmium compounds Bismuth Barium compounds Cadmium Corpounds Copper alloys Copper alloys Copper compounds Copper alloys Copper compounds Cagllium alloys Capper compounds Cagllium alloys Copper compounds Cagllium alloys Copper compounds Cagllium alloys Capper alloys Capper alloys Copper compounds Capper alloys Co	Clastronia wasta	Dhatania anyotala
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Aging Corrugated surfaces  Accelerated aging Metasurfaces  Chemical analysis Rough surfaces  Activation analysis Surface impedance  Chemical processes Surface morphology  Chemicals Surface roughness  PH measurement Surface soil  Contamination Surface estructures  Degradation Surface texture  Microfiltration Surface texture  Microfiltration Surface treatment  Materials handling Intermetallic  Cleaning Shape memory alloys  Materials handling Aluminum compounds  Pallets Barium  Remote handling Barium compounds  Materials preparation Bismuth  Doping Boron  Firing Boron alloys  Materials testing Cadmium Cadmium  Accelerated aging Chromium alloys  Materials testing Cobalt alloys  Boron Boron  Alderials Cobalt alloys  Materials testing Chromium alloys  Materials testing Cobalt alloys  Boron Delamination Copper alloys  Elastic recovery Copper compounds  Metallurgy Erbium  Periodic structures Gallium  Gallium  Periodic structures	Materials science and technology	Surfaces
Accelerated aging Chemical analysis Activation analysis Chemicals Chemicals Electronic noses  pH measurement Contamination Degradation Filtration Hysteresis Semiconductor impurities Materials handling Decontamination Freight handling Materials preparation Doping Firing Materials resting Materials resting Materials testing Materials testing Acoelerated aging Accelerated aging Accelerated aging Metallurgy Metalsuraces Rough surfaces Rourface impedance Surface impedance Surface resistance Surface resistance Surface resistance Surface structures Surface structures Surface structures Surface tension Surface testure Microfiltration Surface teraturet Surface tereatment Metals Metals Materials handling Intermetallic Shape memory alloys Aluminum Aluminum Aluminum compounds Barium Barium Barium Cadmium Cadmium Cadmium Cadmium Calcium compounds Calcium Cobalt Cobalt Cobalt Copper Copper compounds Digital alloys Metallurgy Microstructure Gallium Bilium Erbium Erbium Callium Digital alloys Erbium Erbium Gallium Erperiodic structures Gallium alloys	Absorption	Corrosion
Accelerated aging Chemical analysis Activation analysis Chemicals Chemicals Electronic noses  pH measurement Contamination Degradation Filtration Hysteresis Semiconductor impurities Materials handling Decontamination Freight handling Materials preparation Doping Firing Materials resting Materials resting Materials testing Materials testing Acoelerated aging Accelerated aging Accelerated aging Metallurgy Metalsuraces Rough surfaces Rourface impedance Surface impedance Surface resistance Surface resistance Surface resistance Surface structures Surface structures Surface structures Surface tension Surface testure Microfiltration Surface teraturet Surface tereatment Metals Metals Materials handling Intermetallic Shape memory alloys Aluminum Aluminum Aluminum compounds Barium Barium Barium Cadmium Cadmium Cadmium Cadmium Calcium compounds Calcium Cobalt Cobalt Cobalt Copper Copper compounds Digital alloys Metallurgy Microstructure Gallium Bilium Erbium Erbium Callium Digital alloys Erbium Erbium Gallium Erperiodic structures Gallium alloys	Aging	Corrugated surfaces
Chemical analysis Activation analysis Chemical processes Chemicals Electronic noses Electronic noses Degradation Filtration Filtration Hysteresis Empurities Semiconductor impurities Materials handling Materials handling Materials preparation Doping Firing Materials reliability Materials reliability Materials reliability Accolerated aging Accounter Materials rength Accounter Bound Materials testing Accounter Materials recovery Materials pedance Surface morphology Surface reristance Surface roughness Surface soil Surface stress Surface structures Surface texture Surface texture Metals Muterials Materials handling Materials handling Materials handling Materials handling Materials preparation Cadmium Cadm		
Activation analysis Chemical processes Chemical processes Chemical processes Electronic noses Electronic noses  pH measurement Contamination Surface contamination Degradation Filtration Microfiltration Surface texture Microfiltration Surface texture Microfiltration Surface texture Materials handling Materials handling Decontamination Freight handling Materials handling Materials preparation Pallets Remote handling Materials preparation Doping Firing Doping Materials reliability Accelerated aging Acoustic testing Adhesive strength Adhesive strength Bonding forces Delamination Elastic recovery Materials landloys Materials non implantation Cadmium C		
		<u> </u>
Electronic noses pH measurement Contamination Surface stress Surface contamination Degradation Filtration Microfiltration Hysteresis Semiconductor impurities Materials handling Decontamination Freight handling Materials handling Materials handling Materials handling Materials handling Materials handling Materials preparation Doping Firing Doping Firing Donimplantation Laser sintering Materials reliability Materials reliability Materials reliability Materials reliability Accelerated aging Accelerated aging Account alloys Acoustic testing Adhesive strength Adhesive strength Bonding forces Delamination Capper alloys Copper alloys Copper alloys Copper compounds  .	•	
pH measurement		
Contamination Surface contamination Degradation Surface contamination Surface tension Filtration Microfiltration Surface texture Surface treatment Metals Surface treatment Metals Surface treatment Metals Surface treatment Metals Metals Semiconductor impurities Metals Materials handling Intermetallic Shape memory alloys Aluminum Freight handling Aluminum Aluminum alloys Materials handling equipment Materials preparation Materials preparation Doping Boron Firing Boron Sismuth Doping Boron Sismuth Cadmium Cobalt Cobalt Cobalt Cobalt Cobalt Cobalt Copper Delamination Copper alloys Elastic recovery Copper compounds Metallurgy Microstructure Gallium Periodic structures Gallium alloys		
Surface contamination Degradation Surface tension Alloying Shalloying Shalloying Shape memory alloys S		
Degradation Filtration Surface tension Surface texture Microfiltration Surface texture Surface texture Surface texture Surface topography Surface treatment Metals Semiconductor impurities Materials handling Materials handling Decontamination Freight handling Materials handling Materials handling Materials handling Materials handling Materials preparation Pallets Barium Materials preparation Bismuth Doping Molon implantation Laser sintering Sputtering Materials reliability Materials reliability Materials testing Acoustic testing Achesive strength Soron Delamination Cobalt alloys Metallurgy Metallurgy Metallurgy Metallurgy Metallurgy Metallurgy Metallurgy Metallurgy Microstructure Gallium alloys Gallium alloys  Surface texture  Alloying  Adles)  Alloying  Alloying  Alloying  Alloying  Metallurgs Surface texture  Alloying  Surface texture  Alloying  Alloying  Alloying  Alloying  Metallurgs  Surface texture  Alloying  Surface texture  Alloying  Alloying  Alloying  Alloying  Alloying  Alloying  Metallures  Surface texture  Alloying  Surface texture  Alloying  Metallures  Surface texture  Alloying  Surface texture  Alloying  Alloying  Alloying  Alloying  Alloying  Alloying  Alloying  Shape memory alloys  Aluminum  Alum		
Filtration  Microfiltration  Mysteresis  Semiconductor impurities  Materials handling  Decontamination  Filting  Materials preparation  Doping  Filting  Sputtering  Materials reliability  Materials reliability  Materials reliability  Materials testing  Accuestic eading  Materials eading  Materials reliabilito  Calcium  Materials reliabilito  Materials reliability  Calcium compounds  Chromium  Cobalt  Cobalt  Cobalt  Cobalt alloys  Metallurgy  Metallurgy  Metallurgy  Metallurgy  Metallurgy  Metallurgy  Gallium  Gallium  Periodic structures  Gallium alloys		
Microfiltration Hysteresis Surface topography Metals Semiconductor impurities Materials handling Decontamination Materials handling Materials preparation Cadmium Materials reliability Cadmium compounds Sputtering Cadmium compounds Calcium Materials reliability Calcium compounds Materials testing Calcium compounds Calcium co		
		Surface texture
	Microfiltration	Surface topography
Semiconductor impurities  Materials handling  Cleaning  Decontamination  Freight handling  Materials handling  Materials handling  Materials handling  Materials handling  Materials handling equipment  Materials preparation  Materials preparation  Moping  Firing  Doping  Firing  Morostructure  Materials reliability  Morostructure  Metallurgy  Microstructure  Gallium  Materials testing  Materials testing  Cobalt  Cobalt  Copper compounds  Morostructure  Gallium  Gallium  Gallium  Gallium	Hysteresis	Surface treatment
Semiconductor impurities  Materials handling  Cleaning  Decontamination  Freight handling  Materials handling  Materials handling  Materials handling  Materials handling  Materials handling equipment  Materials preparation  Materials preparation  Moping  Firing  Doping  Firing  Morostructure  Materials reliability  Morostructure  Metallurgy  Microstructure  Gallium  Materials testing  Materials testing  Cobalt  Cobalt  Copper compounds  Morostructure  Gallium  Gallium  Gallium  Gallium	Impurities	Metals
Materials handling		Allovina
Decontamination  Freight handling  Materials handling equipment  Pallets  Remote handling  Materials preparation  Doping  Fring  Ion implantation  Materials reliability  Materials resting  Accelerated aging  Acoustic testing  Acoustic testing  Boron  Copper  Delamination  Copper  Delamination  Delamination  Copper  Delamination  Delamination  Materials resimble  Acoustic testing  Digital alloys  Metallurgy  Metallurgy  Metallurgy  Metallurgy  Microstructure  Gallium  Aluminum  Barium  Barium  Cadmium  Beron  Eadmium  Cadmium  Cadmium  Cadmium  Cadmium  Cadmium  Cadmium  Cadmium  Cadmium  Cadmium  Calcium  Chromium  Chromium  Aluminum  Aluminum  Barium  Aluminum  Barium  Cadmium  Cadmium  Cadmium  Calcium  Chromium  Calcium  Chromium  Chromium  Chromium  Chromium  Chromium  Chromium  Calcium  Chromium  Chromium  Chromium  Calcium  Chromium  Chromium  Calcium  Chromium  Chromium  Calcium  Chromium  Calcium  Chromium  Chromiu	<u> </u>	
Materials handling equipmentAluminum compoundsPalletsBariumBariumBarium compoundsBarium compoundsBarium compoundsBarium compoundsBarium compoundsBismuthBoronBoronBoron alloysBoron alloysCadmiumCadmiumCadmiumCadmium compoundsSputteringCalciumCalciumCalciumCalciumCalciumCalciumCalciumCalciumChromiumChromiumChromiumChromiumChromium alloysCobaltCobaltCobaltCobalt alloysCopperCopperCopper		
	Materials handling equipment	
Remote handlingBarium compoundsMaterials preparationBismuthDopingBoronBoron alloysCadmiumLaser sinteringCadmium compoundsSputteringCalciumMaterials reliabilityCalcium compoundsMaterials testingChromiumAccelerated agingChromium alloysAcoustic testingCobaltAdhesive strengthCobalt alloysBonding forcesCopperDelaminationCopper alloysDelaminationCopper compoundsNondestructive testingDigital alloysMetallurgyErbiumMicrostructureGalliumPeriodic structuresGallium		•
Materials preparationBismuth		
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Firing		
lon implantationCadmiumCadmiumCadmium compounds		
Laser sintering		
SputteringCalciumMaterials reliabilityCalcium compoundsMaterials testingChromiumAccelerated agingChromium alloysAdhesive strengthCobaltAdhesive strengthCopperDelaminationCopper alloysDelaminationCopper compoundsDelastic recoveryCopper compoundsNondestructive testingDigital alloysMetallurgyErbiumMicrostructureGalliumPeriodic structuresGallium alloys		
Materials reliabilityCalcium compoundsMaterials testingChromiumAccelerated agingChromium alloysAdhesive strengthCobaltBonding forcesCopperDelaminationCopper alloysElastic recoveryCopper compoundsNondestructive testingDigital alloysMetallurgyErbiumMicrostructureGalliumPeriodic structuresGallium alloys	Laser sintering	Cadmium compounds
Materials testingChromiumChromium	Sputtering	Calcium
Accelerated agingChromium alloysCobaltCobaltCobalt alloysCopperCopperCopper alloysCopper alloysCopper alloysCopper compoundsCopper compoundsCopper compounds	Materials reliability	Calcium compounds
Accelerated agingChromium alloysCobaltCobaltCobalt alloysCopperCopperCopperCopper alloysCopper alloysCopper alloysCopper alloysCopper compoundsCopper compoundsCopper compoundsCopper compoundsCopper compounds	Materials testing	Chromium
Acoustic testingCobaltCobaltCobalt alloysCopperCopperCopper alloysCopper alloysCopper compoundsCopper compoundsDigital alloysDigital alloysDigital alloysDigital alloys		Chromium alloys
Adhesive strengthCobalt alloysDelaminationCopper alloysCopper alloysCopper alloysCopper compoundsCopper compoundsCopper alloysCopper compoundsCopper alloysCopper alloysCopper alloysCopper compoundsCopper compoundsCopper alloysCopper compoundsCopper alloysCopper compoundsCopper alloysCopper alloysCopper alloysCopper compoundsCopper compoundsCopper alloysCopper alloysCopper compounds	<b>5 5</b>	•
Bonding forcesCopperCopper alloysCopper alloysCopper compoundsDigital alloysDigital alloysMetallurgyErbiumGalliumGalliumGallium alloys	•	
DelaminationCopper alloysCopper compoundsNondestructive testingDigital alloysMetallurgyErbiumMicrostructureGalliumPeriodic structuresGallium alloys	<u> </u>	•
Elastic recoveryCopper compoundsNondestructive testingDigital alloysMetallurgyErbiumMicrostructureGalliumPeriodic structuresGallium alloys		
Nondestructive testingDigital alloysErbiumGalliumGallium alloys		
MetallurgyErbiumGalliumPeriodic structuresGallium alloys		• • • • • •
MicrostructureGalliumGallium alloys		
Periodic structuresGallium alloys		
GratingsGermanium		
	Gratings	Germanium



Germanium alloys	Yttrium
Gold	Yttrium compounds
Gold alloys	Zinc
Hafnium	Zinc compounds
	Ziric compounds
Hafnium compounds	Mathematica
Indium	Mathematics
lron	•
Cast iron	Accuracy
Iron alloys	Algebra
Lanthanum	Abstract algebra
Lanthanum compounds	Galois fields
Lead	Modules (abstract algebra)
Lead isotopes	Boolean algebra
Lithium	Boolean functions
Lithium compounds	Linear algebra
Magnesium	Linear programming
Magnesium compounds	Matrices
Manganese	Vectors
Manganese alloys	Set theory
Mercury (metals)	Fuzzy set theory
Metallization	Fuzzy sets
Integrated circuit metallization	Rough sets
Neodymium	Algorithms
	•
Neodymium alloys	Adaptive algorithms
Neodymium compounds	Adaptation models
Nickel	Algorithm design and analysis
Nickel alloys	Algorithmic efficiency
Nickel compounds	Generative adversarial networks
Niobium	Algorithm design and theory
Niobium alloys	Backtracking
Niobium compounds	Consensus algorithm
Palladium	Approximation algorithms
Platinum	Artificial bee colony algorithm
Platinum alloys	Backpropagation algorithms
Rare earth metals	Basis algorithms
Samarium	Change detection algorithms
Samarium alloys	Classification algorithms
Silver	Relevance vector machines
Steel	Clustering algorithms
Martensite	Compression algorithms
Strontium	Density estimation robust algorithm
Strontium compounds	Detection algorithms
Tin	Distributed algorithms
Tin alloys	Dynamic programming
Tin compounds	Filtering algorithms
Titanium	Genetic algorithms
	Hash functions
Titanium alloys	
Titanium compounds	Cryptographic hash function
Titanium dioxide	Heuristic algorithms
Titanium nitride	Inference algorithms
Tungsten	Machine learning algorithms



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Matching pursuit algorithms	Convex functions
Maximum likelihood detection	Cyclic redundancy check
MLFMA	Cyclic redundancy check codes
Multicast algorithms	Dynamical systems
Parallel algorithms	Nonlinear dynamical systems
Partitioning algorithms	Eigenvalues and eigenfunctions
Prediction algorithms	Equations
Projection algorithms	Boltzmann equation
Pursuit algorithms	Difference equations
Signal processing algorithms	Integrodifferential equations
Software algorithms	Maxwell equations
Viterbi algorithm	Nonlinear equations
Whale optimization algorithms	Bifurcation
Arithmetic	Polynomials
Digital arithmetic	Riccati equations
Fixed-point arithmetic	Estimation
Floating-point arithmetic	Estimation error
Azimuth	Estimation theory
Azimuthal angle	Cramer-Rao bounds
Azimuthal component	Maximum a posteriori estimation
Azimuthal current	Functional point analysis
Azimuthal harmonics	Life estimation
Azimuthal plane	Maximum likelihood estimation
Boundary value problems	Pose estimation
Boundary conditions	State estimation
Upper bound	Observers
Calculus	Yield estimation
Differential equations	Euclidean distance
Differential algebraic equations	Hilbert space
Differential operators	Finite difference methods
Navier-Stokes equations	Finite element analysis
Ordinary differential equations	Fourier series
Partial differential equations	Functional analysis
Transfer functions	Geometry
Integral equations	Computational geometry
Probability density function	Fractals
Level set	Elliptic curves
Closed-form solutions	Elliptic design
Combinatorial mathematics	Ellipsoids
Graph theory	Information geometry
Bipartite graph	Projective geometry
Directed acyclic graph	Surface topography
Directed graphs	Nanotopography
Optimal matching	Gradient methods
Reachability analysis	Graph theory
Shortest path problem	Bipartite graph
Tree graphs	Directed acyclic graph
Steiner trees	Directed acyclic graph
Computational efficiency	Fuzzy cognitive maps
Conformal mapping	Optimal matching
Convergence	Reachability analysis
Convergence	todondonity analysis



Chartant matheman harm	Finite difference as weather de
Shortest path problem	Finite difference methods
Tree graphs	Finite element analysis
Harmonic analysis	Finite volume methods
Iterative methods	Gradient methods
Expectation-maximization algorithms	Independent component analysis
Iterative algorithms	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 approximations
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
	Optimal scriedulingOptimization methods
Mode matching methodsNetwork theory (graphs)	Affordances
Nonlinear equations Bifurcation	Circuit optimization
	Concave programming
Nonlinear systems	Design optimization
Chaos	Fireworks algorithm
Chaotic communication	Gradient methods
Complexity theory	H infinity control
Spatiotemporal phenomena	Mathematical programming
Nonlinear dynamical systems	Optimized production technology
Numerical analysis	Pareto optimization
Adaptive mesh refinement	Quadratic programming
Approximation methods	Simulated annealing
Approximation error	Trajectory optimization
Chebyshev approximation	Piecewise linear techniques
Curve fitting	Piecewise linear approximation
Extrapolation	Predator prey systems
Function approximation	Probability
Interpolation	Ant colony optimization
Linear approximation	Bayes methods
Mean square error methods	Naive Bayes methods
Perturbation methods	Recursive estimation
Convergence of numerical methods	Error probability



Forecasting	Histograms
	Histograms
Demand forecasting	Linear discriminant analysisMaximum likelihood estimation
Economic forecasting	
Forecast uncertainty	Minimax techniques
Technology forecasting	Mixture models
Memoryless systems	Nonparametric statistics
Pairwise error probability	Nearest neighbor methods
Possibility theory	Parametric statistics
Probability distribution	Prediction theory
Exponential distribution	Ranking (statistics)
Log-normal distribution	Root mean square
Maxwell-Boltzmann distribution	Sampling methods
Nakagami distribution	Compressed sensing
Random variables	Nonuniform sampling
Statistical distributions	Statistical analysis
Distribution functions	Analysis of variance
Gaussian distribution	Mode matching methods
Weibull distribution	Monte Carlo methods
Uncertainty	Parameter estimation
Evidence theory	Pareto analysis
Forecast uncertainty	Predictive analytics
Quaternions	Principal component analysis
Random processes	Regression analysis
Brownian motion	Static analysis
Random forests	Time series analysis
Root mean square	Stochastic processes
Sequences	Gaussian processes
Binary sequences	Gaussian mixture model
Random sequences	Markov processes
Set theory	Markov random fields
Fuzzy set theory	Superposition calculus
Fuzzy sets	Taylor series
Rough sets	Tensors
Simulated annealing	Topology
Smoothing methods	Transforms
Spirals	Discrete transforms
Statistics	Discrete transforms
Adaptive estimation	Empirical mode decomposition
<u>-</u>	Fourier transforms
Autoregressive processesBoltzmann distribution	Discrete Fourier transforms
Lattice Boltzmann methods	Fast Fourier transforms
Correlation	Fourier transform infrared
-	
Autocorrelation	spectroscopy
Correlation coefficient	Karhunen-Loeve transforms
Covariance matrices	Poincare invariance
Differential privacy	Wavelet transforms
Dimensionality reduction	Biorthogonal modulation
Manifold learning	Continuous wavelet transforms
Gamma distribution	Discrete wavelet transforms
Gaussian mixture model	Wavelet coefficients
Higher order statistics	Wavelet packets



Transmission line matrix methods	Molecular electronics
Uncertain systems	Nanobioscience
Utility theory	DNA computing
	Nanobiotechnology
Microwave theory and techniques	Nanobiophotonics
	Nanocommunication
Microwave technology	(telecommunication)
Baluns	Nanoelectromechanical systems
Beam steering	Nanoelectronics
Steerable antennas	Junctionless nanowire transistors
Circulators	Nanofabrication
Masers	Nanofluidics
Gyrotrons	Nanolithography
Microwave bands	Nanomaterials
C-band	Nanocarriers
K-band	Nanopackaging
L-band	Nanopatterning
Microwave circuits	Colloidal lithography
Microwave communication	Nanophotonics
Rectennas	Nanopositioning
Microwave devices	Nanoscale devices
Masers	Nanocontacts
Microwave amplifiers	Nanotube devices
Microwave filters	Nanosensors
Microwave transistors	Nanostructured materials
Microwave generation	Nanocomposites
High power microwave generation	Nanoporous materials
Microwave photonics	Nanostructures
Microwave sensors	Nanoparticles
Millimeter wave technology	Magnetic nanoparticles
Millimeter wave circuits	Nanocrystals
Millimeter wave integrated circuits	Nanoribbons
Millimeter wave devices	Nanotubes
Millimeter wave transistors	Carbon nanotubes
Millimeter wave integrated circuits	Semiconductor nanotubes
MIMICs	Nanowires
Millimeter wave radar	Semiconductor nanostructures
Submillimeter wave technology	Self-assembly
Submillimeter wave circuits	Electrostatic self-assembly
Submillimeter wave integrated	Self-replicating machines
circuits	
Submillimeter wave communication	Nuclear and plasma sciences
Submillimeter wave devices	
Submillimeter wave filters	Biomedical applications of radiation
Submillimeter wave integrated circuits	Colliding beam devices
	Colliding beam accelerators
Nanotechnology	Muon colliders
	Electron emission
Bionanotechnology	Ballistic transport
Casimir effect	Electronic ballasts
Molecular computing	Elementary particles



Charre acreiona	Data raya
Charge carriers	Beta rays
	lgnition
Charge carrier lifetime	lon sources
Charge carrier mobility	lsotopes
Charge carrier processes	Nuclear phase transformations
Hot carriers	Nuclear thermodynamics
Electrons	Relativistic effects
Electron sources	Optical flow
Quantum wells	Particle accelerators
Trions	Accelerator magnets
Elementary particle exchange	Colliding beam accelerators
interactions	Cyclotrons
Elementary particle vacuum	Electron accelerators
lons	lon accelerators
lon sources	Linear accelerators
lonization	Photon collider
Mesons	Plasma accelerators
Neutrino sources	Proton accelerators
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	Low-temperature plasmas
Fusion reactors	Plasma applications
Fusion reactor design	Plasma devices
Tokamaks	Plasma immersion ion implantation
Tokamak devices	Plasma welding
Gamma-rays	Tokamaks
Gamma-ray bursts	Plasma confinement
Gamma-ray detection	Inertial confinement
Gamma-ray effects	Magnetic confinement
Gas discharge devices	Plasma diagnostics
Glow discharge devices	Plasma properties
High energy physics instrumentation	Dusty plasmas
computing	Plasma chemistry
Linear particle accelerator	Plasma density
lon beam applications	Plasma sheaths
• •	Plasma stability
lon implantation	
Plasma immersion ion implantation	Plasma temperature Plasmons
Nuclear electronics	
Nuclear imaging	Plasma simulation
Energy resolution	Plasma sources
lon emission	Plasma transport processes
Nuclear medicine	Plasma-assisted combustion
Nuclear physics	Radiation effects
Alpha particles	Biological effects of radiation





Energy	Ferroresonance
Energy barrier	High-voltage techniques
Energy capture	Power engineering computing
Energy consumption	Power system simulation
Energy conversion	Power generation
Atomic batteries	Automatic generation control
Batteries	Cogeneration
Fuel cells	Distributed power generation
Motors	Geothermal power generation
Photovoltaic cells	Hydroelectric power generation
Potential well	Hydroelectric-thermal power
Solar heating	generation
Thermoelectricity	Microhydro power
Waste heat	Picohydro power
	Wave energy conversion
Wind energy conversion	Magnetohydrodynamic power
Energy dissipation	generation
Energy dissipation	Nuclear power generation
Inductive charging	
Energy harvesting	Fission reactors
Nanogenerators	Fusion power generation
Energy management	Power generation control
Demand side management	Power generation dispatch
Energy conservation	Power generation planning
	Power generation planning
Energy efficiency	Solar power generation
Energy informaticsEnergy management systems	Maximum power point trackers
Load management	Photovoltaic systems
	Solar panels
Transactive energy	Trigeneration
Energy resources Fuels	TrigenerationTurbomachinery
Geothermal energy	Turbines
Nuclear fuels	Turbines Turbogenerators
Solar energy	Wind energy generation
	Wind energy generation
Wind energy	
	Wind power generationWind energy conversion
	Power systems
Energy states Effective mass	Data center power
Orbital calculations	•
Polaritons	Hybrid power systemsIndustrial power systems
Surface states	Power distribution
Energy storage	DC distribution systems
Batteries	Power distribution controlPower distribution faults
Flywheels	
Fuel cells	Power distribution lines
Hydrogen storage	Power distribution networks
Supercapacitors	Power distribution planning
Superconducting magnetic energy	Power distribution reliability
storage	Power grids
Power engineering	Microgrids



Smart gridsSubstation protectionPower suppliesTransformersBattery chargersBalunsCurrent transformers	
Battery chargersBalunsCurrent transformers	
Charging stationsCurrent transformers	
Flyback transformers	
High-frequency transformers	
Inductive chargingInstrument transformers	
Phase transformers	
Power demandPower transformers	
Power qualityPulse transformers	
Power system restorationTap changers	
Switched mode power suppliesUninterruptible power systems	
Traction power suppliesWind energy integration	
Umbilical cable	
Power system analysis computing Product safety engineering	
Power system dynamics	
Power system economicsConsumer protection	
Low-carbon economyPower system protection	
Power system faultsElectrical safety	
Power system harmonicsFault protection	
Power harmonic filtersGrounding	
Power system managementSubstation protection	
Load flowSurge protection	
Power system measurementsArresters	
Meter readingSafety	
Power system planningAerospace safety	
Power demandAir safety	
Power distribution planningDomestic safety	
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Power system protectionFall detection	
Electrical safetyEmergency services	
Substation protectionExplosion protection	
Surge protectionFire safety	
Power system reliabilityHazards	
Power distribution reliabilityBiohazards	
Power system stabilityChemical hazards	
Power transmissionExplosions	
Fires	
(electricity)Flammability	
DC power transmissionFloods	
Flexible AC transmission systemsHazardous areas	
HVDC transmissionHazardous materials	
Inductive power transmissionToxicology	
Static VAr compensatorsHealth and safety	
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Wireless power transmissionOccupational safety	
PSCADPersonal protective equipment	
Pulsed power systemsMarine safety	
Pulsed power suppliesProduct safety	
Protection	
SubstationsExplosion protection	
Substation automationLightning protection	



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Radiation protection	Spatial databases
Radiation safety	Transaction databases
Radiation protection	Itemsets
Safety devices	Visual databases
Eye protection	Global communication
Fire extinguishers	Cross-cultural communication
Protective clothing	Geographic information systems
Safety management	Geospatial analysis
Vehicle safety	Gunshot detection systems
Advanced driver assistance	Grammar
systems	Information analysis
Lane departure warning systems	Decision analysis
Lane detection	Indexing
Vehicle crash testing	Information integrity
	Information resources
Professional communication	Information retrieval
	Blogs
Collaboration	Content-based retrieval
Collaborative tools	Dimensionality reduction
Call conference	Manifold learning
Collaborative software	Hypertext systems
Videoconferences	Information filtering
Discussion forums	Information filters
Teamwork	Recommender systems
Virtual groups	Information rates
Communication aids	Music information retrieval
Closed captioning	Online services
Communication effectiveness	Online banking
Communication symbols	Search engines
Semiotics	Search methods
Pragmatics	Keyword search
Semantics	Metasearch
Syntactics	Search problems
Context	Semantic search
Databases	Web search
Database systems	Social networking (online)
Audio databases	Computer mediated communication
Deductive databases	MySpace
Image databases	Second Life
Indexes	Tagging
Multimedia databases	Tag clouds
NoSQL databases	Taxonomy
Object oriented databases	Terminology
Query processing	Dictionaries
Deductive databases	Video sharing
Distributed databases	MySpace
Image databases	Vocabulary
Image retrieval	Web sites
Multimedia databases	Multimedia Web sites
Object oriented databases	MySpace
Relational databases	Uniform resource locators



Web design	Common Information Model
Information science	(electricity)
Quantum information science	Competitive intelligence
Quantum channel	Digital preservation
Quantum circuit	Document handling
Information services	Enterprise architecture
Ask IEEE	•
Dictionaries	management
Document delivery	Information security
Ask IEEE	Information sharing
	Knowledge transfer
Encyclopedias Libraries	Information processing
	Digital agriculture
Software libraries	Electronic healthcare
Teletext	Informatics
Videotex	Information exchange
Wikipedia	Sonification
Information systems	Management information systems
Data systems	Portals
Data acquisition	Medical information systems
Data centers	Electronic medical records
Data compression	Information technology
Data conversion	Bring your own device
Data engineering	Information age
Data handling	Information and communication
Data processing	technology
Data storage systems	Ambient assisted living
Data warehouses	Information representation
Database systems	Digital representation
Audio databases	Printing
Deductive databases	Digital printing
Image databases	Ink jet printing
Indexes	Teleprinting
Multimedia databases	Three-dimensional printing
NoSQL databases	Semantic technology
Object oriented databases	Service computing
Query processing	Service level agreements
Distributed information systems	Telematics
Distributed management	Universal Serial Bus
Publish-subscribe	Manuals
Identity management systems	Meetings
Informatics	Conferences
Bioinformatics	Oral communication
Cognitive informatics	Public speaking
Energy informatics	Speech
Neuroinformatics	Plagiarism
Information architecture	Portfolios
Enterprise architecture	Professional societies
management	Public speaking
Information management	Rhetoric
Common Information Model	Writing
(computing)	Abstracts



Bibliographies Biographies  Matobiographies Dictionaries Documentation Documentation Matobiographies Matobiographies Materials reliability Materials reliability Materials reliability Materials reliability Materials reliability Materials reliability Matomate Robust stability Matomate Robust stability Matomate Robust stability Matomate Robust stability Matomate Robust reliability Matomate Robust stability Matomate Robust reliability Matomate Robust stability Matomate Robust reliability Matomate Robust r
Resumes Reviews Reviews Reliability Reliab
Reliability  Reliability  Computer aided manufacturing Computer numerical control Computer numerical manufacturing Computer numerical manufacturing Computer numerical manufacturing Computer numerical manufacturing Computer numerical control Computer numerical manufacturing Computer numerical control Computer numerical control Computer numerical control Computer numerica
Reliability  Computer aided manufacturing Computer integrated manufacturing Computer numerical control  Flexible manufacturing systems  Fault diagnosis  Dissolved gas analysis  Fault location  Fault tolerance  Fault tolerance  Redundancy  Fluctuations  Integrated circuit reliability  Maintenance  Materials reliability engineering  Reliability theory  Robustness  Semiconductor device reliability  Software reliability  Computer integrated manufacturing  Computer integrated manufacturing  Flexible manufacturing systems  Workflow management software  Storage automation  Vehicular automation  Autonomous systems  Autonomous robots  Multi-robot systems  Multi-robot systems  Multi-robot systems  Madistribution  Swarm robotics  Robots  Reliability engineering  Reliability theory  Androids  Software reliability  Software reliability  Software reliability  Software reliability  Software reliability  Software reliability  Stability  Autonomous robots  Circuit stability  Bio-inspired robotics  Computer vision  Stability criteria  Active appearance model  Thermal stability  Corner detection  Face detection
Reliability
AvailabilityFlexible manufacturing systems
Fault diagnosisOffice automationDissolved gas analysisWorkflow management softwareFault locationStorage automation
Fault diagnosisOffice automationDissolved gas analysisWorkflow management softwareFault locationStorage automationVehicular automation
Dissolved gas analysisWorkflow management softwareFault locationStorage automationVehicular automationVehicular automationVehicular automation
Fault locationFault toleranceFault tolerant controlFault tolerant controlRedundancyIntegrated circuit reliabilityMaintenanceMaldistributionMaterials reliabilityReliability engineeringReliability theoryRobotsReliability theoryAutonomous vehiclesMaterials reliabilityDiversity schemesAgricultural robotsAgricultural robotsAquatic robotsAquatic robotsAquatic robotsCognitive roboticsCognitive roboticsComputer visionStability criteriaStability criteriaDiversity schemesDiversity schemesStabilityDiversity schemesStabilityDiversity schemesStabilityDiversity schemesStabilityCorner detectionFace detection
Fault toleranceVehicular automationFault tolerant controlAutonomous systemsAutonomous robotsAutonomous vehiclesAutonomous vehiclesAutonomous vehiclesMaintenanceMulti-robot systemsMulti-robot systemsMaldistributionSwarm roboticsAgricultural robotsAgricultural robotsAgricultural robotsAgricultural robotsAgricultural robotsAndroidsAquatic robotsAquatic robotsAquatic robotsAutonomous robotsTuring machinesTuring machinesTuring machinesTuring machinesAutonomous robotsCircuit stabilityAutonomous roboticsRobust stabilityCognitive roboticsRobust stability
Fault tolerant controlAutonomous systemsRedundancyAutonomous robotsAutonomous vehiclesIntegrated circuit reliabilityUnmanned autonomous vehiclesMaintenanceMulti-robot systemsMaldistributionSwarm roboticsAgricultural robotsAgricultural robotsAgricultural robotsAndroidsAndroidsAquatic robotsAquatic robotsSemiconductor device reliabilityAutomataSoftware reliabilityTuring machinesStabilityAutonomous robotsCircuit stabilityBio-inspired roboticsStability analysisComputer visionStability criteriaActive appearance modelThermal stabilityBlob detectionPace detectionFace detectionFace detection
RedundancyAutonomous robotsFluctuationsAutonomous vehiclesIntegrated circuit reliabilityUnmanned autonomous vehiclesMaintenanceMulti-robot systemsMaldistributionSwarm roboticsMaterials reliabilityRobotsReliability engineeringAgricultural robotsReliability theoryAndroidsRobustnessAquatic robotsSemiconductor device reliabilityAutomataSoftware reliabilityTuring machinesStabilityCircuit stabilityBio-inspired roboticsRobust stabilityCognitive roboticsStability analysisComputer visionStability criteriaActive appearance modelThermal stabilityBlob detectionTelecommunication network reliabilityCorner detectionFace detection
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MaintenanceMulti-robot systemsMaldistributionSwarm roboticsMaterials reliabilityRobotsReliability engineeringAgricultural robotsAgricultural robotsAndroidsAquatic robotsAquatic robotsSemiconductor device reliabilityAutomataSoftware reliabilityTuring machinesTuring machinesCircuit stabilityAutonomous robotsCircuit stabilityBio-inspired roboticsRobust stabilityStability analysisComputer visionStability criteriaActive appearance modelThermal stabilityBlob detectionActive appearance modelTelecommunication network reliabilityCorner detectionFace detectionFace detection
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Thermal stabilityBlob detectionCorner detectionDiversity schemesFace detection
Telecommunication network reliabilityCorner detectionFace detection
Diversity schemesFace detection
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Feature detection
ResonanceInterest point detection
Smart cameras
FerroresonanceVisual odometry
Magnetic resonanceEducational robots
Antiferromagnetic resonanceEvolutionary robotics
Ferromagnetic resonanceHumanoid robots
Nuclear magnetic resonanceIntelligent robots
Paramagnetic resonanceManipulators
Resonance light scatteringEnd effectors
Stochastic resonanceManipulator dynamics
Micromanipulators



Marina nahata	Disabassical anabasis
Marine robots	Biochemical analysis
Medical robotics	Peptides
Rehabilitation robotics	Proteins
Mobile robots	Receptor (biochemistry)
Autonomous automobiles	Biodiversity
Climbing robots	Biogeography
Legged locomotion	Bioelectric phenomena
Orbital robotics	Electric shock
Parallel robots	Biological cells
Rehabilitation robotics	Cell signaling
Rescue robots	Cells (biology)
Robot control	Chromosome mapping
Robot motion	Endothelial cells
Robot kinematics	Fibroblasts
Motion analysis	RNA
Robot learning	Stem cells
Robot programming	Biological information theory
Robot sensing systems	Biological processes
Robot vision systems	Biological interactions
Simultaneous localization and	Chronobiology
mapping	Circadian rhythm
Tactile sensors	Coagulation
Service robots	Molecular biology
Snake robots	Symbiosis
Soft robotics	Biological system modeling
Telerobotics	Biological systems
Teleoperators	Anatomy
Visual odometry	Molecular communication
Wearable robots	(telecommunication)
	Organisms
Science – general	Biology computing
g	Biophotonics
Astronomy	Biophysics
Astrophysics	Aerospace biophysics
Dark matter	Biomagnetics
Orbits	Cellular biophysics
Stellar dynamics	Molecular biophysics
Extrasolar planets	Cryobiology
Extrasolar planetary atmospheres	Evolution (biology)
Extrasolar planetary mass	Memetics
Gravitational waves	Phylogeny
Observatories	Genetics
Radio astronomy	DNA
Solar system	Epigenetics
Kuiper belt	Gene therapy
Planets	Gene therapy
Satellites	
Satellites	Genetic expression
	Genetic programmingGenomics
Biology	
Biochemistry	Homeostasis
Amino acids	Mechanobiology



MicrobiologyPhotocatalysisVirologyPlectricityMicroinjectionPhotoelectricityNanobiosciencePhotovoltaic effects
VirologyElectricityMicroinjectionPhotoelectricityNanobiosciencePhotovoltaic effects
MicroinjectionPhotoelectricityPhotovoltaic effects
NanobiosciencePhotovoltaic effects
DNA computingPiezoelectricity
Piezoelectric effect
PhysiologyPiezoelectric polarization
Pyroelectricity
External stimuliThermoelectricity
NeuromodulationElectrothermal effects
Predator prey systemsPeltier effect
Synthetic biologyThermoelectric devices
SystematicsThermoelectric materials
Systems biologyTriboelectricity
VegetationEpidemiology
Epidemics
Marine vegetationPandemics
ZoologyGeoscience
AnimalsAntarctica
EntomologySouth Pole
ChemistryArctic
AstrochemistryNorth Pole
BiochemistryAtmosphere
Amino acidsAir quality
Biochemical analysisAtmospheric modeling
PeptidesAtmospheric waves
Biosphere
Receptor (biochemistry)Continents
Chemical analysisAfrica
Activation analysisAsia
Chemical processesAustralia
Europe
Electronic nosesNorth America
pH measurementSouth America
Chemical compoundsCyclones
Anti-freezeHurricanes
Bromine compoundsTropical cyclones
ChalcogenidesEarth
EthanolEarthquakes
MethanolEarthquake engineering
RadiotracerForestry
ElectrochemistryGeochemistry
ElectrocatalysisGeochemistry
GeochemistryGeography
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<b>5</b>
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Organic chemicalsGeologyLandslides
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<b>,</b>
Photobleaching Rocks



Geophysics	Systems neuroscience
Geophysics EMTDC	Systems neuroscienceTranscranial direct current stimulation
Extraterrestrial phenomena	Transcranial magnetic stimulation
Geodynamics	Physics
Geophysics computing	Acoustics
Meteorology	Acoustic applications
Moisture	Acoustic devices
Seismology	Acoustic emission
Surface waves	Acoustic field
Well logging	Acoustic noise
lce	Acoustic phonetics
lce shelf	Acoustic propagation
lce surface	Acoustic pulses
lce thickness	Acoustic waves
Sea ice	Acoustooptic effects
Lakes	Biomedical acoustics
Land surface	Cepstral analysis
Levee	Music
Meteorological factors	Nonlinear acoustics
Oceanography	Psychoacoustics
Ocean circulation	Reverberation
Oceans	Spectral shape
Ocean salinity	Underwater acoustics
Ocean temperature	Astrophysics
Sea coast	Dark matter
Sea floor	Orbits
Sea level	Stellar dynamics
Sea surface	Beams
Tides	Acoustic beams
Rivers	Laser beams
Sediments	Molecular beams
Soil	Optical beams
Soil moisture	Particle beams
Soil properties	Biophysics
Soil texture	Aerospace biophysics
Tornadoes	Biomagnetics
Tsunami	Cellular biophysics
Volcanoes	Molecular biophysics
Planetary volcanoes	Dark energy
Volcanic activity	Entropy
Volcanic ash	Fluid flow
Wetlands	Fluid dynamics
History	Hydraulic diameter
Life sciences	Hydrology
Metrology	Pipelines
Optical metrology	Valves
Neuroscience	Geophysics
Clinical neuroscience	EMTDC
Cognitive neuroscience	Extraterrestrial phenomena
Computational neuroscience	Geodynamics
Neuroinformatics	Geophysics computing



Meteorology	Quantum simulation
Moisture	Quantum state
Seismology	Quantum system
Surface waves	Relativistic quantum mechanics
Well logging	Schrodinger equation
High energy physics	Stationary state
Kinetic theory	Teleportation
Kinetic energy	Tunneling
Levitation	Rydberg atoms
Electrostatic levitation	Solid-state physics
Magnetic levitation	String theory
Lorentz covariance	Thermal factors
Mechanical factors	Temperature
Acceleration	Temperature dependence
Aerodynamics	Thermal conductivity
Bending	Thermal expansion
Biomechanics	Thermal expansion
Damping	Thermal management
Dynamics	Thermoelasticity
Fatigue	Thermoelectricity
Force	Thermolysis
Friction	Thermooptic effects
Hydrodynamics	Thermoresistivity
Kinematics	Waves
Lubrication	Atmospheric waves
Magnetohydrodynamics	Berry phase
Photoelasticity	Doppler effect
Pressure effects	Electrodynamics
Shock (mechanics)	Magnetostatic waves
Strain	Matter waves
Stress	Plasma waves
Surface cracks	Propagation
Surface stress	Reflectivity
Torque	Seismic waves
Vibrations	Shock waves
Volume relaxation	Solitons
Workability	Surface acoustic waves
Network theory (graphs)	Wave functions
Physics education	Social sciences
Quantum mechanics	Behavioral sciences
Coherence time	Animal behavior
Density functional theory	Cognition
Lagrangian functions	Consumer behavior
Proton effects	Psychiatry
Quantum capacitance	Psychology
Quantum cryptography	Social intelligence
Quantum decoherence	Journalism
Quantum entanglement	Psychology
Quantum information science	Active perception
Quantum key distribution	Emotional responses
Quantum optics	Industrial psychology



Mental health	Sensor placement
Mood	Sensor systems and applications
Neuropsychology	Detectors
Psychometric testing	Envelope detectors
Sociology	Semiconductor detectors
Digital divide	Electric sensing devices
Social groups	Leak detection
Social intelligence	Radiofrequency identification
Thermodynamics	RFID tags
Enthalpy	Robot sensing systems
Isobaric	Robot vision systems
Isothermal processes	Simultaneous localization and
	mapping
Sensors	Tactile sensors
	Sensor arrays
Acoustic sensors	Sensor fusion
Chemical and biological sensors	Sensor systems
Biosensors	Activity recognition
Gas detectors	Gunshot detection systems
Amperometric sensors	Thermal sensors
Electromechanical sensors	Electrothermal actuators
Microsensors	Temperature sensors
Force sensors	Thermometers
Glucose sensors	Thick film sensors
Inertial sensors	Thin film sensors
Infrared sensors	Vision sensors
Intelligent sensors	Wearable sensors
Intracranial pressure sensors	
lonizing radiation sensors	Signal processing
Position sensitive particle detectors	eighai proceeding
Radiation detectors	Acoustic signal processing
Bolometers	Active noise reduction
Gamma-ray detectors	Echo cancellers
Infrared detectors	Speech processing
Photodetectors	Human voice
Semiconductor radiation detectors	Speech enhancement
Silicon radiation detectors	Speech synthesis
X-ray detectors	Voice activity detection
Magnetic sensors	Adaptive signal processing
Spin valves	Adaptive signal processing
Mechanical sensors	Adaptive filers
Capacitive sensors	Amplifiers
Multimodal sensors	Broadband amplifiers
Nanosensors	Didauband amplifiers
Optical sensors	Differential amplifiers
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Optical detectors	Low-noise amplifiers
Bar codes	Operational amplifiers
Optical fiber sensors	Feedback amplifiers
Optoelectronic and photonic sensors	Power amplifiers
Pressure sensors	High power amplifiers
Sensor phenomena and characterization	Predistortion



Preamplifiers	Collaborative filtering
Pulse amplifiers	Image filtering
Radiofrequency amplifiers	Gabor filters
Resonators	Harmonic filters
Cavity resonators	IIR filters
Split ring resonators	Kalman filters
Array signal processing	Low-pass filters
Attenuators	Matched filters
Optical attenuators	Microstrip filters
Chirp	Nonlinear filters
Convolution	Notch filters
Convolution	Particle filters
Decorrelation	Power filters
DecorrelationDigital signal processing	Spurline
Delta modulation	Resonator filters
Delta modulationDelta-sigma modulation	Spatial filters
Sigma-delta modulation	Superconducting filters
	Transversal filters
Digital signal processing chips	
Dispersion	Frequency locked loops
Chromatic dispersion	Geophysical signal processing
Optical fiber dispersionDistortion	Limiting
	Modulation
Acoustic distortion	Amplitude modulation
Four-wave mixing	Amplitude shift keying
Jitter	Quadrature amplitude modulation
Timing jitter	Chirp modulation
Nonlinear distortion	Demodulation
Harmonic distortion	Digital modulation
Intermodulation distortion	Constellation diagram
Phase distortion	Partial response signaling
Error correction	Frequency modulation
Forward error correction	Frequency shift keying
Fading channels	Magnetic modulators
Frequency-selective fading channels	Modulation coding
Rayleigh channels	Interleaved codes
Weibull fading channels	Optical modulation
Filters	Electrooptic modulators
Active filters	Intensity modulation
Band-pass filters	Phase modulation
Anisotropic	Continuous phase modulation
Bragg gratings	Differential phase shift keying
Fiber gratings	Phase shift keying
Channel bank filters	Pulse modulation
Comb filters	Pulse width modulation
Digital filters	Pulse width modulation inverters
Finite impulse response filters	Space vector pulse width
Equalizers	modulation
Adaptive equalizers	Multidimensional signal processing
Blind equalizers	Video signal processing
Decision feedback equalizers	Motion artifacts
Filtering theory	Video coding



Additive noiseAdditive white noise
Additive white noise
AWGNColored noiseColored noise
AWGNLaser noiseLaser feedbackLow-frequency noiseNoise cancellationPhase noise
Laser noisePhase estimationLaser feedbackTime of arrival estimationLow-frequency noiseSignal mappingSpectral analysisPhase noiseInfrared spectraJudd-Ofelt theoryPSNRSpectroradiometersSuperconducting device noiseSignal designWhite noiseSignal detectionAWGNAcoustic signal detectionAWGNAcoustic signal detectionLaser noiseMotion detectionLaser feedbackMultiuser detectionDytical wavelength conversionDytical signal detectionPhase locked loopsPhase detectionPhase detectionPhase frequency detectorsOptical pulse compressionRadar detectionPhase frequency detectorsSignal generatorsNoise generatorsNoise generatorsNoise generationPulse generation
Laser feedbackTime of arrival estimationLow-frequency noiseSignal mappingNoise cancellationSpectral analysisPhase noiseInfrared spectraSignal to noise ratio
Low-frequency noiseSignal mappingSignal mappingSpectral analysisSpectral analysisInfrared spectraJudd-Ofelt theorySpectroradiometersSuperconducting device noiseSignal design
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Pulse shaping methodsSignal generatorsNoise generatorsNoise generatorsPulse generation
Optical pulse shapingNoise generatorsPulse generation
Quantization (signal)Pulse generation
Optical pulse generation
Radar signal processingSignal integrity
Received signal strength indicatorSignal reconstruction
RecordingSignal denoising
Audio recordingSignal resolution
Digital recordingDiversity reception
Disk recordingSignal restoration
Magnetic recordingSignal sampling
Digital magnetic recordingSignal synthesis
Heat-assisted magnetic recordingSource separation
Blind source separation
Magnetooptic recordingSpectrogram
Microwave-assisted magneticTracking loops
recording
Perpendicular magnetic recording Social implications of technology
Shingled magnetic recording
Optical recordingCultural aspects
CD recordingCultural differences
Video recordingCultural differences
High definition videoEnvironmental factors
VideosBiosphere



Global warming	Solid state circuits
Ecology	
Ecosystems	Circuit subsystems
Wetlands	Circuit theory
Environmental economics	FET circuits
Carbon tax	
	FET integrated circuits
Emissions trading	Field effect MMIC
Environmental monitoring	MESFET integrated circuits
Global warming	JFET circuits
Green manufacturing	JFET integrated circuits
Green products	MESFET circuits
Green buildings	MESFET integrated circuits
Green cleaning	MODFET circuits
Green transportation	MODFET integrated circuits
Pollution	MOSFET circuits
Air pollution	CMOSFET circuits
Emissions trading	MOS integrated circuits
Industrial pollution	Power MOSFET
Land pollution	Gate leakage
Oil pollution	Solid state circuit design
Radioactive pollution	Transistors
Thermal pollution	Field effect transistors
Urban pollution	CNTFETs
Water pollution	Double-gate FETs
Ethical aspects	FeFETs
Ethics	HEMTs
Cyberethics	JFETs
Machine ethics	MESFETs
Globalization	MISFETs
International relations	MODFETs
Peace technology	MOSFET
Philosophical considerations	MOSHFETs
Social factors	OFETs
Demography	Schottky gate field effect transistors
Developing countries	TFETs
Technology social factors	Thin film transistors
Privacy	Heterojunction bipolar transistors
Sustainable development	Double heterojunction bipolar
Technology	transistors
Appropriate technology	Millimeter wave transistors
Disruptive technologies	Phototransistors
Machine ethics	Static induction transistors
Neurotechnology	
Technological innovation	Superconductivity
Technology social factors	oupor contadouvity
Privacy	Bean model
Technology transfer	Critical current density
Small business technology transfer	(superconductivity)
Telepresence	Critical current density
Telexistence	Flux pinning
I GIONIGIOTIO	Superconducting devices
	Superconducting devices



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Josephson junctions	Data-driven modeling
SQUIDs	Metadata
Superconducting coils	Data-driven modeling
Superconducting magnets	Deformable models
Superconducting microwave devices	Digital elevation models
Superconducting photodetectors	Emulation
Superconducting filaments and wires	Graphical models
Superconducting films	Green's function methods
Superconducting thin films	Hidden Markov models
Superconducting integrated circuits	Input variables
Superconducting magnetic energy	Integrated circuit modeling
storage	Cutoff frequency
Superconducting materials	Inverse problems
Granular superconductors	Deconvolution
High-temperature superconductors	Load modeling
Yttrium barium copper oxide	Metamodeling
Multifilamentary superconductors	Numerical models
Niobium-tin	Object oriented modeling
Type II superconductors	Power system modeling
Superconducting transition temperature	Load modeling
Superconductive tunneling	Process modeling
i v	Semiconductor device modeling
Systems engineering and theory	Semiconductor process modeling
eyeems engineering and allery	Signal representation
Adaptive systems	Simulation
Adaptive control	Computer simulation
Cognitive radar	Digital simulation
Line enhancers	Hardware-in-the-loop simulation
Multi-agent systems	Human in the loop
Collaborative intelligence	Medical simulation
Variable structure systems	Mixed reality
Capability engineering	Quantum simulation
Complex systems	Serious games
Configuration management	Systems simulation
Hierarchical systems	Solid modeling
Multilevel systems	System identification
Integrated design	Systems modeling
Interface management	Multidimensional systems
Modeling	Network systems
Analytical models	DC distribution systems
	Physical design
	Reduced order systems
(computing)Atmospheric modeling	Requirements engineering
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Brain modeling	Technical requirements
Building information management	Requirements management
Computational modeling	Service-oriented systems engineering
Agent-based modeling	Solution design
Computational cultural modeling	Stochastic systems
Reversible computing	System analysis and design
Context modeling	Asymptotic stability
Data models	Control system analysis



State-space methods Diskributed processing Dew computing Dew computing Edge computing Edge computing Distributed vision networks Eault detection Fault tolerant systems Botnet Large-scale systems Open Access Open Educational Resources Petri nets Physical design Physical diagnosis Scattering parameters Scattering parameters Sequential diagnosis Sequential diagnosis System sengineering education Systems engineering education Systems support Systems simulation Systems support Systems support Systems support Systems sthinking Task analysis Technical management Maintenance management Maintenance management Systems, man, and cybernetics Systems, man, and cybernetics Systems, man, and cybernetics Cognition Activity recognition Cognitive neuroscience Consumer behavior Septimate via processes Sequential diagnosis System performance System performance Coperative caching Systems modeling Systems Modeling Language Mental health Systems Modeling Language System Psychology Systems Modeling Language Systems modeling Systems System performeric testing
Distributed processing Dew computing Dew computing Descomputing Distributed vision networks Distributed vision networks Fault detection Fault tolerant systems Desconnected systems Distributed vision networks Systems support Systems engineering education Systems engineering education Systems support Systems engineering education Systems engineering education Systems support Systems engineering education Systems engineering education
Dew computing  Edge computing  Message passing  Distributed vision networks  Fault detection  Fault tolerant systems  Interconnected systems  Botnet  Large-scale systems  Open systems  Open Systems  Open Educational Resources  Physical layer  Petri nets  Physical design  Robust control  Scalability  Scattering parameters  Sequential analysis  Zero correlation zone  Sequential diagnosis  Systems engineering education  Systems sepport  Systems simulation  Systems support  Systems support  Systems thinking  Task analysis  Technical management  Maintenance autenation  Maintenance management  Maintenance management  Maintenance autenation  Maintenance management  Maintenance
Fault detectionSystems supportSystems supportSystems thinkingSystems thinkingTask analysisTask ana
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Interconnected systems  Botnet  Large-scale systems  Lyapunov methods  Open systems  Open Access  Open Educational Resources  Petri nets  Physical design  Robust control  Scalability  Scalability  Scattering parameters  Sequential analysis  Zero correlation zone  Sequential diagnosis  Static analysis  Systems modeling  Systems Modeling Language  Industrial parameters  Industrial parameters  Industrial management  Maintenance management  Maintelabelauites  Metal beautor  Massautor  Massau
Large-scale systemsMaintenance managementLyapunov methodsTechnical planningTechnical planning
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Open systemsOpen AccessOpen Educational ResourcesPhysical layerPetri netsPhysical designCognitionScalabilityCognitive neuroscienceScattering parametersZero correlation zoneSequential diagnosisZero correlation zoneSoftware prototypingStatic analysisStatic analysisSystem dynamicsSystem performanceSystem performanceSystem-level designSystems modelingSystems Modeling LanguageSystems modelingSystems modelingMoodSystems modelingMood
Open AccessOpen Educational ResourcesPhysical layerPhysical layerPhysical designCognitionActivity recognitionActivity recognitionCognitive neuroscienceScatabilityCognitive processesSequential analysisZero correlation zoneSequential diagnosisSeft-awareZero correlation zoneSequential diagnosisPsychiatrySoftware prototypingMental disordersSystem dynamicsSystem dynamicsSystem performanceCognitive neuroscienceCognitive processesSelf-awareConsumer behaviorPsychiatryMental disordersPsychologyMental disordersPsychologyMental disordersLivity recognitionActive processes
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Physical layerBehavioral sciencesPetri netsAnimal behaviorPhysical designCognitionCognitionActivity recognitionActivity recognitionScalabilityCognitive neuroscience
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Physical designCognitionActivity recognitionActivity recognitionScalabilityCognitive neuroscience
Robust controlActivity recognitionScalabilityCognitive neuroscienceScattering parametersSequential analysisSelf-awareZero correlation zoneSequential diagnosisPsychiatryMental disordersSoftware prototypingMental disordersPsychologySystem dynamicsActive perceptionActive perceptionSystem performanceEmotional responsesCooperative cachingIndustrial psychologySystem-level designMental healthSystems modelingMoodNeuropsychology
ScalabilityCognitive neuroscienceScattering parametersCognitive processesSequential analysisSelf-awareZero correlation zoneConsumer behaviorSequential diagnosisPsychiatrySoftware prototypingMental disordersStatic analysisPsychologySystem dynamicsActive perceptionSystem performanceEmotional responsesCooperative cachingIndustrial psychologySystem-level designMental healthSystems modelingMoodSystems Modeling LanguageNeuropsychology
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Sequential diagnosisPsychiatryMental disordersMental disordersPsychologyStatic analysisPsychologyActive perceptionActive perceptionEmotional responsesCooperative cachingIndustrial psychologySystem-level designMental healthSystems modelingMoodMoodNeuropsychology
Software prototypingMental disordersPsychologyPsychologyActive perceptionActive perceptionEmotional responsesCooperative cachingIndustrial psychologySystem-level designMental healthSystems modelingMoodMoodNeuropsychology
Static analysisPsychologySystem dynamicsActive perceptionSystem performanceEmotional responsesCooperative cachingIndustrial psychologySystem-level designMental healthSystems modelingMoodSystems Modeling LanguageNeuropsychology
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System-level designMental healthMoodSystems ModelingMoodNeuropsychology
Systems modelingMoodNeuropsychology
Systems Modeling LanguageNeuropsychology
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Social intelligence
Continuous time systemsBiological control systems
Discrete-time systemsBiomarkers
Time invariant systemsMolecular biomarkers
Time-varying systemsComputational linguistics
System implementationMachine translation
System improvementSentiment analysis
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System integrationCybernetics
System of systemsAdaptive systems
Cyber-physical systemsAdaptive control
Digital twinCognitive radar
System realizationLine enhancers
System validationMulti-agent systems
System testingVariable structure systems
Model checkingCognitive informatics
System verificationCognitive science
System testingHuman intelligence



Problem-solving	Linguistics
Control theory	Phonetics
Control molinearities	Pragmatics
	Natural language processing
Observability	Chatbot
Decision theory	Machine translation
Decision trees	Morphology
TOPSIS	Sentiment analysis
Econophysics	Tokenization
Emergent phenomena	Pervasive computing
Intelligent control	Ubiquitous computing
Feedforward systems	Context-aware services
Neurocontrollers	Wearable computers
Linear feedback control systems	Smart glasses
Frequency locked loops	Posthuman
Phase locked loops	Teleworking
State feedback	Transhuman
	User interfaces
Tracking loops	Audio user interfaces
Ergonomics Job design	
Smart spaces	Brain-computer interfacesData visualization
•	lsosurfaces
User experienceHuman factors	Emotion recognition
	Emotion recognition
Anthropomorphism	
Human image synthesis	Graphical user interfacesAvatars
Human intelligence	
Digital intelligence Mental health	Human computer interaction
	Affective computingChatbot
Technology acceptance model	
Identification of persons	Extended reality
Biometrics (access control)	Gaze tracking
Face recognition	Head-mounted displays
Fingerprint recognition	Head-up displays
Gait recognition	Human in the loop
Iris recognition	Immersive experience
Keystroke dynamics	Telepresence Telexistence
Palmprint recognition	Human-robot interaction
Face recognition	
Fingerprint recognition	Human-vehicle systems Smart cards
Handwriting recognition	Smart cards
Forgery	Ultracanias formacleatrics and
Speaker recognitionSpeech recognition	Ultrasonics, ferroelectrics, and
, ,	frequency control
Automatic speech recognition	Ferroelectric materials
Speech analysis	
Man-machine systems	Ferroelectric films
Digital intelligence	Relaxor ferroelectrics
Extended reality	Frequency control
Interactive systems	Automatic frequency control
External stimuli	Tunable circuits and devices
Natural languages	RLC circuits

.....Tuned circuits .....Railguns ......Electrothermal launching .....Tuning .....Laser tuning .....Rockets .....Optical tuning ....Vehicles .....Tuners ......Connected vehicles ....Piezoelectricity ......Hydrogen powered vehicles ......Piezoelectric effect ......Intelligent vehicles ......Piezoelectric polarization .....Autonomous vehicles ....Pyroelectricity .....Unmanned vehicles ....Ultrasonic imaging .....Vehicle-to-everything ......Ultrasonography .....Land vehicles .....Sonogram .....Bicycles ....Ultrasonic transducers .....Electric vehicles .....Road vehicles ......Military vehicles Vehicular and wireless technologies ......Space vehicles ....Automotive engineering .....Space shuttles ......Automotive applications ....Wireless sensor networks ......Automotive electronics ......Body sensor networks ......Power steering .....Event detection ......Vehicle crash testing ......Vehicle detection ......Vehicle driving ......Vehicle dynamics .....Rollover .....Vehicle safety .....Advanced driver assistance systems .....Lane departure warning systems .....Lane detection ....Land mobile radio equipment ......Mobile antennas ....Navigation .....Aircraft navigation ......Course correction ......Dead reckoning ......Indoor navigation ......Inertial navigation ......Marine navigation ......Radio navigation ......Satellite navigation systems ......Global navigation satellite system .....Global Positioning System .....Satellite constellations ......Sonar navigation ....Propulsion ......Aerospace propulsion ......Aircraft propulsion .....Propellers



.....Coilguns

......Electromagnetic launching