

advanced driver assistance systems

UF ADAS (advanced driver assistance systems)
 BT road safety
 road traffic control
 RT automotive electronics
 collision avoidance
 computer vision
 driver information systems
 intelligent transportation systems
 mobile robots
 object detection
 pedestrians
 road vehicles
 road vehicle radar
 safety systems
 steering systems
 traffic engineering computing
 PT driver information systems
 road safety
 road traffic control
 CC B8520B Automobile electronics and electrics
 C3360B Road traffic system control
 C3390C Mobile robots
 C7420 Control engineering computing
 C7445 Traffic engineering computing
 DI January 2022

blended learning *[promoted lead-in]*

UF hybrid learning
 BT computer aided instruction
 RT computer based training
 courseware
 distance learning
 education
 educational courses
 educational institutions
 further education
 intelligent tutoring systems
 Internet
 learning management systems
 management of change
 mobile learning
 teaching
 technology acceptance model
 PT computer aided instruction
 CC A0150H Instructional computer use for
 education
 B0120 Education and training
 C7810C Computer-aided instruction
 E0250 Education and training
 E0410 Information technology applications
 DI January 2022

assistive robots

BT service robots
 RT assisted living
 geriatrics
 handicapped aids
 human-robot interaction
 medical robotics
 mobile robots
 patient monitoring
 patient rehabilitation
 social robots
 wearable robots
 PT service robots
 CC C6180R Human-robot interaction
 C3385 Biological and medical control
 systems
 C3390 Robotics
 E2230 Robot and manipulator mechanics
 DI January 2022

computer network fault tolerance

BT computer network reliability
 fault tolerant computing
 RT computer network management
 computer network performance evaluation
 computer network security
 PT computer network reliability
 fault tolerant computing
 CC B6210L Computer communications
 C5620 Computer networks and techniques
 C5670 Computer network performance
 DI January 2022

gamma-ray telescopes

BT astronomical telescopes
 gamma-ray apparatus
 RT gamma-ray astronomy
 aerospace instrumentation
 PT astronomical telescopes
 CC A9555K X-ray and gamma-ray telescopes
 A9555L Aerospace instrumentation
 DI January 2022

humidity effects

BT humidity
 RT moisture
 moisture control
 humidity control
 PT humidity
 DI January 2022

hypersonic vehicles

[promoted lead-in]

- BT vehicles
- RT aerodynamics
 - aircraft
 - aircraft control
 - combustion
 - hypersonic flow
 - jet engines
 - missile control
 - missiles
 - space vehicles
- PT missiles
 - aircraft
- CC A4785 Applied fluid mechanics
 - B7600 Aerospace
 - B7910R Weapons
 - C3360L Aerospace control
 - C3375 Military control systems
 - E2130 Fluid mechanics and aerodynamics (mechanical engineering)
 - E2320 Engines
 - E3646 Defence industry
 - E3650C Aerospace industry
- DI January 2022

laser cladding

- BT laser deposition
 - cladding techniques
- RT claddings
- PT laser materials processing
- CC A4262A Laser materials processing
 - B4360B Laser materials processing
 - A8160 Corrosion, oxidation, etching, and other surface treatments
 - E1520N Surface treatment and coating techniques
- DI January 2022

marine engineering computing

- BT engineering computing
 - marine engineering
- NT naval engineering computing
- RT marine control
 - marine navigation
 - marine robots
 - marine systems
 - marine vehicles
 - military computing
 - ships
 - structural engineering computing
- PT engineering computing
 - marine engineering
- CC C7490 Computing in other engineering fields
 - E0410 Information technology applications
- DI January 2022

mean field theory

- BT statistical analysis
- RT stochastic processes
 - stochastic systems
 - random processes
 - probability
- PT statistical analysis
- CC A0250 Probability theory, stochastic processes, and statistics
 - A0540 Fluctuation phenomena, random processes, and Brownian motion
 - B0240Z Other topics in statistics
 - C1140Z Other topics in statistics
 - E0210J Statistics
- DI January 2022

mergers (stars)

- RT neutron stars
 - white dwarfs
 - gravitational wave sources (astronomical)
 - black holes
 - binary stars
- PT stars
- CC A9720R Faint blue stars, white dwarfs, degenerate stars and nuclei of planetary nebulae
 - A9780 Binary and multiple stars
 - A9760J Neutron stars
 - A9760L Black holes
 - A9870T Cosmic gravitational wave sources
- DI January 2022

moscovium

UF element 115
 ununpentium
 Uup
 Mc
 BT transactinides
 PT ununpentium
 DI January 2022

motion capture

BT image motion analysis
 RT biomechanics
 cameras
 computer animation
 computer games
 feature extraction
 gait analysis
 image sensors
 kinematics
 motion compensation
 motion estimation
 object detection
 object tracking
 virtual reality
 motion sensors
 PT image motion analysis
 CC A4230V Image processing and restoration
 B6135 Optical, image and video signal
 processing
 C1250M Image recognition
 C5260B Computer vision and image
 processing techniques
 C6130B Graphics techniques
 DI January 2022

nihonium

UF element 113
 ununtrium
 Uut
 Nh
 BT transactinides
 PT ununtrium
 DI January 2022

oganesson

UF element 118
 ununoctium
 Uuo
 Og
 BT transactinides
 PT ununoctium
 DI January 2022

online shopping

[promoted lead-in]

UF home shopping [demoted term]
 BT electronic commerce
 retail data processing
 RT consumer behaviour
 customer satisfaction
 home banking
 home computing
 Internet
 mobile commerce
 retailing
 review sites
 Web sites
 PT home shopping
 CC C7180 Retailing and distribution computing
 C7210N Information networks
 C7830 Home computing
 E0120P Marketing and sales
 E0410F Business applications of IT
 DI January 2022

oxygen evolution reactions

UF OER (chemical reactions)
 BT chemical reactions
 RT electrocatalysis
 electrocatalysts
 electrolysis
 hydrogen production
 oxidation
 oxygen
 photocatalysis
 photocatalysts
 photoelectrochemistry
 photosynthesis
 pyrolysis
 redox (reactions)
 water
 water splitting
 PT chemical reactions
 CC A8245 Electrochemistry and electrophoresis
 A8245B Electrocatalysis
 A8250 Photochemistry and radiation
 chemistry
 A8250H Photocatalysis
 A8610C Hydrogen fuel
 DI January 2022

pseudogap

BT band structure
 RT energy gap
 Fermi level
 superconducting materials
 PT band structure
 CC A7430J Electronic structure of
 superconductors
 DI January 2022

redox (reactions) *[promoted lead-in]*

BT reduction (chemical)
 oxidation
 RT surface chemistry
 oxygen evolution reactions
 PT reduction (chemical)
 oxidation
 CC A8230M Oxidation, reduction and redox
 reactions (chemistry aspects)
 DI January 2022

reinforcement learning *[promoted lead-in]*

BT learning (artificial intelligence)
 RT deep learning (artificial intelligence)
 multi-agent systems
 naive Bayes methods
 neural nets
 pattern classification
 support vector machines
 unsupervised learning
 supervised learning
 semi-supervised learning
 PT learning (artificial intelligence)
 CC C1230L Learning in AI
 C1240 Adaptive system theory
 C6263 Reinforcement learning
 C6264 Neural nets
 DI January 2022

seeds (agriculture) *[promoted lead-in]*

UF germination
 BT crops
 RT botany
 soil
 ecology
 PT agriculture
 CC C3310C Control applications in agriculture
 C7860 Agriculture, forestry and fisheries
 computing
 E3010 Agriculture
 DI January 2022

semi-supervised learning (artificial intelligence)

BT learning (artificial intelligence)
 RT deep learning (artificial intelligence)
 naive Bayes methods
 neural nets
 pattern classification
 reinforcement learning
 supervised learning
 support vector machines
 unsupervised learning
 PT learning (artificial intelligence)
 CC C1230L Learning in AI
 C1240 Adaptive system theory
 C6261 Supervised learning
 C6262 Unsupervised learning
 DI January 2022

social robots

BT human-robot interaction
 RT assistive robots
 educational robots
 emotion recognition
 humanoid robots
 learning (artificial intelligence)
 mobile robots
 natural language interfaces
 natural language processing
 service robots
 social aspects of automation
 PT human-robot interaction
 CC C0130 Economic, social and political aspects
 of control
 C3390 Robotics
 C6180R Human-robot interaction
 E2230 Robot and manipulator mechanics
 DI January 2022

solar astronomical instruments

BT astronomical instruments
 RT astronomical telescopes
 solar spectra
 solar radiation
 PT astronomical instruments
 CC A9555E Solar instruments
 DI January 2022

superconducting wires

UF monofilamentary superconducting wires
 BT superconducting materials
 NT multifilamentary superconductors
 RT superconducting coils
 superconducting tapes
 PT superconducting materials
 CC A7470 Superconducting materials
 B3220M Superconducting wires and tapes
 DI January 2022

surgical robots *[promoted lead-in]*

UF surgical robotics
 BT medical robotics
 surgery
 RT manipulator kinematics
 manipulators
 medical computing
 medical image processing
 motion control
 position control
 telerobotics
 PT medical robotics
 surgery
 CC C3385 Biological and medical control
 systems
 C3390 Robotics
 E2230 Robot and manipulator mechanics
 DI January 2022

telecommunication network performance

BT telecommunication networks
 NT computer network performance evaluation
 RT telecommunication network reliability
 telecommunication equipment testing
 telecommunication network topology
 telecommunication security
 telecommunication network management
 telecommunication network planning
 telecommunication network routing
 telecommunication power management
 telecommunication control
 telecommunication traffic
 quality of service
 PT telecommunication networks
 CC B6150 Communication system theory
 B6210 Telecommunication applications
 E0430 Information resources and networks
 DI January 2022

tennessine

UF element 117
 ununseptium
 Uus
 Ts
 BT transactinides
 PT ununseptium
 DI January 2022

terahertz wave absorption

BT electromagnetic wave absorption
 RT terahertz waves
 terahertz materials
 terahertz metamaterials
 terahertz wave spectra
 terahertz wave devices
 submillimetre waves
 PT electromagnetic wave absorption
 CC A4225B Optical propagation, transmission
 and absorption
 A7870G Microwave, radiofrequency and
 terahertz wave interactions with condensed
 matter
 B5210C Radiowave propagation
 B5210E Light propagation
 DI January 2022

time-invariant systems

UF time-invariant event-triggered systems
 RT control system synthesis
 discrete time systems
 feedback
 linear systems
 stability
 time-varying systems
 CC C1200 Systems theory and cybernetics
 C1340 Specific control systems
 DI January 2022

ultracold atoms

BT cooling
 atoms
 RT laser cooling
 radiation pressure
 Bose-Einstein condensation
 magneto-optical effects
 optical lattices
 particle traps
 trapped ions
 PT laser cooling
 CC A3280P Optical cooling of atoms; trapping
 A4250V Mechanical effects of light
 DI January 2022

X-ray telescopes

- BT astronomical telescopes
 X-ray apparatus
- RT X-ray astronomy
 aerospace instrumentation
 X-ray optics
- PT astronomical telescopes
 A9555K X-ray and gamma-ray telescopes
 A9555L Aerospace instrumentation
- DI January 2022