

2022 Inspec Thesaurus and Classification Code Changes

About Thesaurus and Classification Codes

The Inspec Thesaurus and Classification scheme are valuable search tools to help you refine your search results.

The Thesaurus contains over 10 000 Index Terms and is a terminology based subject index. The Index Terms are themselves interrelated to allow you either to find the most exact term(s) to add to your search or to broaden out your search with additional terms.

The Inspec Classification is a subject categorisation scheme containing over 3600 Classification Codes. These codes can be used to specify a subject area without needing to specify all the sub-concepts that might be used to define it, and to restrict the results of Index Term searches which may cross subject areas.

About Revisions

Inspec regularly assesses and updates these taxonomies in line with advances in scientific and technological terminology and changes in the focus of research.

New Classification Codes may be added to allow access to formerly hard to access concepts and codes may be amended to reflect changes in terminology or to make explicit indexing practice. For 2022, 11 new codes are being added and 1 code is being retired.

Similarly new Index Terms may be introduced to allow new concepts to be specified, to subdivide growing research areas, or to match changes in the terminology of the material being indexed. 32 new Index Terms are being introduced for 2022. In addition, 101 concepts are being added which are synonyms, or explain, and lead to the Index Terms to use for those concepts. There are also a number of corrections and additions to the inter-term and code-term relationships. There are no Index Terms being retired.

The improved Thesaurus and Classification tools containing all these changes will be available in January in time for the first update of 2022.

Changes for 2022

If your Saved Search (or Alert) contains Full Terms or Classification Codes from the following lists, you may wish to consider the related new concepts for addition into your strategy.

List of New Classification Codes linked to Pre-2022 Practice

Pre 2022 Code	New Code	New Code Text
A6100	A6175	Structure of composite materials
A6100	A6175B	Structure of reinforced metal composites (inc. particle, fibre, platelet and whisker-reinforced metals)
A6100	A6175E	Structure of ceramic-based composites (inc. cermets and refractory composites)
A6100	A6175H	Structure of glass-based composites
A6100	A6175K	Structure of reinforced polymers and polymer-containing composites (inc. filled polymers)

A6167	A6175N	Structure of organic-inorganic hybrid materials (inc. perovskite hybrids)
A6100	A6175Q	Structure of nanocomposites
A6100	A6175W	Structure of other composite materials
C3390	C3390V	Humanoid robots
C5620	C5620S	Computer network security
C7400	C7485	Smart cities

List of New Index Terms Linked to Pre-2022 Terms

Pre 2022 Index Term	Relationship	New Index Term
aerodynamics	Related term	hypersonic vehicles
aerospace instrumentation	Related term	gamma-ray telescopes
aerospace instrumentation	Related term	X-ray telescopes
aircraft	Related term	hypersonic vehicles
aircraft control	Related term	hypersonic vehicles
assisted living	Related term	assistive robots
assistive robots	Related term	social robots
astronomical instruments	Narrow term	solar astronomical instruments
astronomical telescopes	Narrow term	gamma-ray telescopes
astronomical telescopes	Related term	solar astronomical instruments
astronomical telescopes	Narrow term	X-ray telescopes
atoms	Narrow term	ultracold atoms
automotive electronics	Related term	advanced driver assistance systems
band structure	Narrow term	pseudogap
binary stars	Related term	mergers (stars)
biomechanics	Related term	motion capture
black holes	Related term	mergers (stars)
Bose-Einstein condensation	Related term	ultracold atoms
botany	Related term	seeds (agriculture)
cameras	Related term	motion capture
chemical reactions	Narrow term	oxygen evolution reactions
cladding techniques	Narrow term	laser cladding
claddings	Related term	laser cladding
collision avoidance	Related term	advanced driver assistance systems
combustion	Related term	hypersonic vehicles
computer aided instruction	Narrow term	blended learning
computer animation	Related term	motion capture
computer based training	Related term	blended learning
computer games	Related term	motion capture
computer network management	Related term	computer network fault tolerance
computer network performance evaluation	Related term	computer network fault tolerance

computer network performance evaluation	Broader term	telecommunication network performance
computer network reliability	Narrow term	computer network fault tolerance
computer network security	Related term	computer network fault tolerance
computer vision	Related term	advanced driver assistance systems
consumer behaviour	Related term	online shopping
control system synthesis	Related term	time-invariant systems
cooling	Narrow term	ultracold atoms
courseware	Related term	blended learning
crops	Narrow term	seeds (agriculture)
customer satisfaction	Related term	online shopping
deep learning (artificial intelligence)	Related term	reinforcement learning
deep learning (artificial intelligence)	Related term	semi-supervised learning (artificial intelligence)
discrete time systems	Related term	time-invariant systems
distance learning	Related term	blended learning
driver information systems	Related term	advanced driver assistance systems
ecology	Related term	seeds (agriculture)
education	Related term	blended learning
educational courses	Related term	blended learning
educational institutions	Related term	blended learning
educational robots	Related term	social robots
electrocatalysis	Related term	oxygen evolution reactions
electrocatalysts	Related term	oxygen evolution reactions
electrolysis	Related term	oxygen evolution reactions
electromagnetic wave absorption	Narrow term	terahertz wave absorption
electronic commerce	Narrow term	online shopping
emotion recognition	Related term	social robots
energy gap	Related term	pseudogap
engineering computing	Narrow term	marine engineering computing
fault tolerant computing	Narrow term	computer network fault tolerance
feature extraction	Related term	motion capture
feedback	Related term	time-invariant systems
Fermi level	Related term	pseudogap
further education	Related term	blended learning
gait analysis	Related term	motion capture
gamma-ray apparatus	Narrow term	gamma-ray telescopes
gamma-ray astronomy	Related term	gamma-ray telescopes
geriatrics	Related term	assistive robots
gravitational wave sources (astronomical)	Related term	mergers (stars)
handicapped aids	Related term	assistive robots
home banking	Related term	online shopping

home computing	Related term	online shopping
humanoid robots	Related term	social robots
human-robot interaction	Related term	assistive robots
human-robot interaction	Narrow term	social robots
humidity	Narrow term	humidity effects
humidity control	Related term	humidity effects
hydrogen production	Related term	oxygen evolution reactions
hypersonic flow	Related term	hypersonic vehicles
image motion analysis	Narrow term	motion capture
image sensors	Related term	motion capture
intelligent transportation systems	Related term	advanced driver assistance systems
intelligent tutoring systems	Related term	blended learning
Internet	Related term	blended learning
Internet	Related term	online shopping
jet engines	Related term	hypersonic vehicles
kinematics	Related term	motion capture
laser cooling	Related term	ultracold atoms
laser deposition	Narrow term	laser cladding
learning (artificial intelligence)	Narrow term	reinforcement learning
learning (artificial intelligence)	Narrow term	semi-supervised learning (artificial intelligence)
learning (artificial intelligence)	Related term	social robots
learning management systems	Related term	blended learning
linear systems	Related term	time-invariant systems
magneto-optical effects	Related term	ultracold atoms
management of change	Related term	blended learning
manipulator kinematics	Related term	surgical robots
manipulators	Related term	surgical robots
marine control	Related term	marine engineering computing
marine engineering	Narrow term	marine engineering computing
marine navigation	Related term	marine engineering computing
marine robots	Related term	marine engineering computing
marine systems	Related term	marine engineering computing
marine vehicles	Related term	marine engineering computing
medical computing	Related term	surgical robots
medical image processing	Related term	surgical robots
medical robotics	Related term	assistive robots
medical robotics	Narrow term	surgical robots
military computing	Related term	marine engineering computing
missile control	Related term	hypersonic vehicles
missiles	Related term	hypersonic vehicles
mobile commerce	Related term	online shopping
mobile learning	Related term	blended learning

mobile robots	Related term	advanced driver assistance systems
mobile robots	Related term	assistive robots
mobile robots	Related term	social robots
moisture	Related term	humidity effects
moisture control	Related term	humidity effects
motion compensation	Related term	motion capture
motion control	Related term	surgical robots
motion estimation	Related term	motion capture
motion sensors	Related term	motion capture
multi-agent systems	Related term	reinforcement learning
multifilamentary superconductors	Broader term	superconducting wires
naive Bayes methods	Related term	reinforcement learning
naive Bayes methods	Related term	semi-supervised learning (artificial intelligence)
natural language interfaces	Related term	social robots
natural language processing	Related term	social robots
naval engineering computing	Broader term	marine engineering computing
neural nets	Related term	reinforcement learning
neural nets	Related term	semi-supervised learning (artificial intelligence)
neutron stars	Related term	mergers (stars)
object detection	Related term	advanced driver assistance systems
object detection	Related term	motion capture
object tracking	Related term	motion capture
optical lattices	Related term	ultracold atoms
oxidation	Related term	oxygen evolution reactions
oxidation	Narrow term	redox (reactions)
oxygen	Related term	oxygen evolution reactions
oxygen evolution reactions	Related term	redox (reactions)
particle traps	Related term	ultracold atoms
patient monitoring	Related term	assistive robots
patient rehabilitation	Related term	assistive robots
pattern classification	Related term	reinforcement learning
pattern classification	Related term	semi-supervised learning (artificial intelligence)
pedestrians	Related term	advanced driver assistance systems
photocatalysis	Related term	oxygen evolution reactions
photocatalysts	Related term	oxygen evolution reactions
photoelectrochemistry	Related term	oxygen evolution reactions
photosynthesis	Related term	oxygen evolution reactions
position control	Related term	surgical robots
probability	Related term	mean field theory
pyrolysis	Related term	oxygen evolution reactions

quality of service	Related term	telecommunication network performance
radiation pressure	Related term	ultracold atoms
random processes	Related term	mean field theory
redox (reactions)	Related term	oxygen evolution reactions
reduction (chemical)	Narrow term	redox (reactions)
reinforcement learning	Related term	semi-supervised learning (artificial intelligence)
retail data processing	Narrow term	online shopping
retailing	Related term	online shopping
review sites	Related term	online shopping
road safety	Narrow term	advanced driver assistance systems
road traffic control	Narrow term	advanced driver assistance systems
road vehicle radar	Related term	advanced driver assistance systems
road vehicles	Related term	advanced driver assistance systems
safety systems	Related term	advanced driver assistance systems
semi-supervised learning (artificial intelligence)	Related term	reinforcement learning
service robots	Narrow term	assistive robots
service robots	Related term	social robots
ships	Related term	marine engineering computing
social aspects of automation	Related term	social robots
social robots	Related term	assistive robots
soil	Related term	seeds (agriculture)
solar radiation	Related term	solar astronomical instruments
solar spectra	Related term	solar astronomical instruments
space vehicles	Related term	hypersonic vehicles
stability	Related term	time-invariant systems
statistical analysis	Narrow term	mean field theory
steering systems	Related term	advanced driver assistance systems
stochastic processes	Related term	mean field theory
stochastic systems	Related term	mean field theory
structural engineering computing	Related term	marine engineering computing
submillimetre waves	Related term	terahertz wave absorption
superconducting coils	Related term	superconducting wires
superconducting materials	Related term	pseudogap
superconducting materials	Narrow term	superconducting wires
superconducting tapes	Related term	superconducting wires
supervised learning	Related term	reinforcement learning
supervised learning	Related term	semi-supervised learning (artificial intelligence)

support vector machines	Related term	reinforcement learning
support vector machines	Related term	semi-supervised learning (artificial intelligence)
surface chemistry	Related term	redox (reactions)
surgery	Narrow term	surgical robots
teaching	Related term	blended learning
technology acceptance model	Related term	blended learning
telecommunication control	Related term	telecommunication network performance
telecommunication equipment testing	Related term	telecommunication network performance
telecommunication network management	Related term	telecommunication network performance
telecommunication network planning	Related term	telecommunication network performance
telecommunication network reliability	Related term	telecommunication network performance
telecommunication network routing	Related term	telecommunication network performance
telecommunication network topology	Related term	telecommunication network performance
telecommunication networks	Narrow term	telecommunication network performance
telecommunication power management	Related term	telecommunication network performance
telecommunication security	Related term	telecommunication network performance
telecommunication traffic	Related term	telecommunication network performance
telerobotics	Related term	surgical robots
terahertz materials	Related term	terahertz wave absorption
terahertz metamaterials	Related term	terahertz wave absorption
terahertz wave devices	Related term	terahertz wave absorption
terahertz wave spectra	Related term	terahertz wave absorption
terahertz waves	Related term	terahertz wave absorption
time-varying systems	Related term	time-invariant systems
traffic engineering computing	Related term	advanced driver assistance systems
transactinides	Narrow term	moscovium
transactinides	Narrow term	nihonium
transactinides	Narrow term	oganesson
transactinides	Narrow term	tennessine
trapped ions	Related term	ultracold atoms
unsupervised learning	Related term	reinforcement learning
unsupervised learning	Related term	semi-supervised learning (artificial intelligence)
vehicles	Narrow term	hypersonic vehicles
virtual reality	Related term	motion capture

water	Related term	oxygen evolution reactions
water splitting	Related term	oxygen evolution reactions
wearable robots	Related term	assistive robots
Web sites	Related term	online shopping
white dwarfs	Related term	mergers (stars)
X-ray apparatus	Narrow term	X-ray telescopes
X-ray astronomy	Related term	X-ray telescopes
X-ray optics	Related term	X-ray telescopes

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