

2017 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 about 9900 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 about 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 2017 there are no Classification Codes 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. 22 new Index Terms are being introduced for 2017. In addition, 71 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 2017.

Changes for 2017

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

List of New Index Terms Linked to Pre-2017 Terms

| Pre 2017 Index Term | Relationship | New Index Term |
|-------------------------|--------------|---------------------------|
| aerospace control | Related term | solar sails |
| aerospace propulsion | Narrow term | solar sails |
| air pollution | Related term | exhaust gases |
| air pollution control | Related term | exhaust gases |
| aircraft power systems | Related term | electric vehicle charging |
| artificial intelligence | Narrow term | affective computing |
| ash | Related term | exhaust gases |
| automotive electrics | Related term | electric vehicle charging |
| automotive electronics | Related term | electric vehicle charging |

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|-------------------------------|--------------|----------------------------------|
| battery charge measurement | Related term | electric vehicle charging |
| battery chargers | Related term | electric vehicle charging |
| battery management systems | Related term | electric vehicle charging |
| battery powered vehicles | Related term | vehicle-to-grid |
| battery powered vehicles | Related term | electric vehicle charging |
| battery powered vehicles | Related term | automotive electric vehicles |
| battery storage plants | Related term | vehicle-to-grid |
| Big Data | Related term | NoSQL databases |
| Big Data | Related term | Linked Data |
| cognition | Related term | affective computing |
| cognitive systems | Related term | affective computing |
| combustion | Related term | exhaust gases |
| computer networks | Related term | machine-to-machine communication |
| control engineering computing | Related term | hardware-in-the loop simulation |
| control system synthesis | Related term | hardware-in-the loop simulation |
| cost reduction | Related term | crowdsourcing |
| crystal growth | Narrow term | crystal growth from solid |
| data structures | Related term | NoSQL databases |
| data warehouses | Related term | NoSQL databases |
| database indexing | Related term | NoSQL databases |
| database management systems | Related term | Linked Data |
| database management systems | Narrow term | NoSQL databases |
| demand side management | Related term | vehicle-to-grid |
| deployable structures | Related term | solar sails |
| diesel engines | Related term | exhaust gases |
| distributed databases | Related term | NoSQL databases |
| distributed power generation | Related term | vehicle-to-grid |
| electric generators | Related term | nanogenerators |
| electric propulsion | Related term | automotive electric vehicles |
| electric vehicles | Related term | electric vehicle charging |
| electric vehicles | Narrow term | automotive electric vehicles |
| electromagnetic devices | Related term | magnetic gears |
| electrostatic generators | Related term | nanogenerators |
| embedded systems | Related term | hardware-in-the loop simulation |
| emotion recognition | Related term | affective computing |
| energy harvesting | Narrow term | nanogenerators |

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|------------------------------------|--------------|-----------------------------------|
| exhaust systems | Related term | exhaust gases |
| face recognition | Related term | affective computing |
| feature extraction | Related term | image annotation |
| flexible structures | Related term | solar sails |
| flue gases | Related term | exhaust gases |
| fuel cell vehicles | Related term | automotive electric vehicles |
| fuel cell vehicles | Related term | vehicle-to-grid |
| gas mixtures | Related term | exhaust gases |
| gases | Narrow term | exhaust gases |
| gears | Narrow term | magnetic gears |
| gesture recognition | Related term | affective computing |
| groupware | Related term | crowdsourcing |
| heavily doped semiconductors | Related term | junctionless nanowire transistors |
| human computer interaction | Narrow term | affective computing |
| human factors | Related term | affective computing |
| humanoid robots | Related term | affective computing |
| human-robot interaction | Related term | affective computing |
| HVDC power convertors | Related term | voltage-source convertors |
| hybrid electric vehicles | Related term | automotive electric vehicles |
| hybrid electric vehicles | Related term | electric vehicle charging |
| hybrid electric vehicles | Related term | vehicle-to-grid |
| image classification | Related term | image annotation |
| image processing | Narrow term | image annotation |
| image retrieval | Related term | image annotation |
| incineration | Related term | exhaust gases |
| innovation management | Related term | crowdsourcing |
| internal combustion engines | Related term | exhaust gases |
| Internet | Narrow term | Linked Data |
| Internet | Related term | crowdsourcing |
| Internet of Things | Related term | machine-to-machine communication |
| IP networks | Related term | machine-to-machine communication |
| jet engines | Related term | exhaust gases |
| knowledge based systems | Related term | Linked Data |
| knowledge representation | Related term | Linked Data |
| learning (artificial intelligence) | Related term | image annotation |
| load shedding | Related term | vehicle-to-grid |
| low-power electronics | Related term | nanogenerators |
| magnetic bearings | Related term | magnetic gears |
| magnetic devices | Narrow term | magnetic gears |
| meta data | Related term | image annotation |

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|--------------------------------------|--------------|---------------------------------------|
| meta data | Related term | Linked Data |
| micromechanical devices | Related term | nanogenerators |
| mobile computing | Related term | crowdsourcing |
| mobile radio | Related term | machine-to-machine communication |
| MOSFET | Narrow term | junctionless nanowire transistors |
| multiplexing | Narrow term | mode-division multiplexing |
| nanoelectromechanical devices | Related term | nanogenerators |
| nanoelectronics | Narrow term | junctionless nanowire transistors |
| nanowires | Related term | junctionless nanowire transistors |
| ontologies (artificial intelligence) | Related term | Linked Data |
| operating systems (computers) | Narrow term | Microsoft Windows (operating systems) |
| optical fibre communication | Related term | mode-division multiplexing |
| outsourcing | Narrow term | crowdsourcing |
| permanent magnets | Related term | magnetic gears |
| piezoelectric devices | Related term | nanogenerators |
| power convertors | Narrow term | voltage-source convertors |
| power electronics | Related term | voltage-source convertors |
| power system control | Related term | hardware-in-the loop simulation |
| power transmission (mechanical) | Related term | magnetic gears |
| product development | Related term | crowdsourcing |
| psychology | Related term | affective computing |
| PWM power convertors | Related term | voltage-source convertors |
| pyroelectric devices | Related term | nanogenerators |
| quantum Hall effect | Related term | topological lattices |
| quantum Hall effect | Related term | topological superconductors |
| query languages | Related term | NoSQL databases |
| query processing | Related term | NoSQL databases |
| query processing | Related term | Linked Data |
| radiation pressure | Related term | solar sails |
| road vehicles | Related term | automotive electric vehicles |
| secondary cells | Related term | electric vehicle charging |
| semantic networks | Related term | Linked Data |
| semantic networks | Related term | NoSQL databases |
| semantic Web | Related term | Linked Data |
| semiconductor quantum wires | Related term | junctionless nanowire transistors |

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|------------------------------|--------------|-----------------------------------|
| silicon-on-insulator | Related term | junctionless nanowire transistors |
| simulation | Narrow term | hardware-in-the loop simulation |
| small electric machines | Related term | nanogenerators |
| smart power grids | Narrow term | vehicle-to-grid |
| social networking (online) | Related term | crowdsourcing |
| solar power | Related term | solar sails |
| solar powered vehicles | Related term | vehicle-to-grid |
| solar powered vehicles | Related term | electric vehicle charging |
| solid phase epitaxial growth | Related term | crystal growth from solid |
| space vehicles | Related term | solar sails |
| speech | Related term | voice activity detection |
| speech coding | Related term | voice activity detection |
| speech processing | Narrow term | voice activity detection |
| speech recognition | Related term | affective computing |
| speech recognition | Related term | voice activity detection |
| speech synthesis | Related term | voice activity detection |
| spin Hall effect | Related term | topological lattices |
| spin Hall effect | Related term | topological superconductors |
| spin-orbit interactions | Related term | topological superconductors |
| spin-orbit interactions | Related term | topological lattices |
| superconductivity | Related term | topological superconductors |
| surface conductivity | Related term | topological lattices |
| surface conductivity | Related term | topological superconductors |
| surface states | Related term | topological superconductors |
| surface states | Related term | topological lattices |
| telecommunication | Narrow term | machine-to-machine communication |
| testing | Related term | hardware-in-the loop simulation |
| topological insulators | Related term | topological superconductors |
| topological insulators | BroaderTerm | topological lattices |
| triboelectricity | Related term | nanogenerators |
| user interfaces | Related term | affective computing |
| variable speed gear | Related term | magnetic gears |
| vehicle dynamics | Related term | hardware-in-the loop simulation |
| vehicle dynamics | Related term | solar sails |
| very large databases | Related term | NoSQL databases |
| vibrations | Related term | nanogenerators |
| video signal processing | Related term | image annotation |
| wireless sensor networks | Related term | machine-to-machine communication |

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