

**IEEE Terms Added: July 2023**

**74 Terms Added**

**BT = Broader Term**

**UF = Used for Term**

**Agile project management**

BT Project management  
Software development management

**Agrochemicals**

BT Agriculture  
Chemical products  
UF Agrichemicals

**Antenna-in-package**

BT Antennas  
Electronics packaging  
System-in-package

**Aspherical optics**

BT Optics  
UF Aspheric optics  
Aspheric lenses  
Aspherical lenses  
Aspheric mirrors  
Aspherical mirrors

**Asthma**

BT Pulmonary diseases

**Autonomous networks**

BT Automation  
Autonomous systems  
Network systems  
UF Zero touch networks

**Basal cell carcinoma**

BT Skin cancer

**Biofilms**

BT Biological materials  
Microorganisms

**Biogeochemistry**

BT Chemistry  
Geology

**Cell therapy**

BT Cancer treatment  
UF Cellular therapy  
Cell transplantation  
Cytotherapy

**Chronic obstructive pulmonary disease**

BT Pulmonary diseases  
UF COPD

**Color gamut**

BT Color  
UF Colour gamut

**Color temperature**

BT Color  
Temperature  
UF Colour temperature

**Conditional random fields**

BT Graph theory  
Random processes  
Statistical analysis  
UF CRF

**Data augmentation**

BT Data analysis  
Data handling

**Diabetic retinopathy**

BT Diabetes  
Retinopathy

**Discrete Hartley transforms**

BT Discrete transforms

**District heating**

BT Heating systems

UF District heating and cooling

Teleheating

Heat networks

Central heating

**Eating disorders**

BT Mental disorders

UF Anorexia

Anorexia nervosa

Bulimia

Bulimia nervosa

Binge eating

**Emojis**

BT Computer graphics

Symbols

**Emphysema**

BT Pulmonary diseases

**Energy Internet**

BT Power systems

UF Internet of Energy

**Eye diseases**

BT Diseases

**Fermi level**

BT Energy states

Thermodynamics

UF Fermi-level

Fermi energy

**Fish schools**

BT Collective intelligence

Ensemble learning

UF Fish schooling

**Glaucoma**

BT Eye diseases

**Hardware security**

BT Hardware

Security

UF Security of hardware

**Heat maps**

BT Data visualization

**Human activity recognition**

BT Activity recognition

UF HAR

Human action recognition

Human motion recognition

**Hydrolysis**

BT Chemical reactions

**Image augmentation**

BT Image transformation

UF Convolutional neural networks

Data augmentation

Image classification

Machine learning

**Image morphing**

BT Image transformation

Morphological operations

**Image preprocessing**

BT Image processing

**Image skeletonization**

BT Image transformation

**Image thinning**

BT Image transformation

Morphological operations

**Image transformation**

BT Image processing

UF Image transforming

**Indoor positioning systems**

BT Indoor environment

**Knee replacement**

BT Prosthetics  
UF Knee arthroplasty

**Laser pulses**

BT Laser beams  
UF Laser pulsing  
Pulsed lasers

**Logistic regression**

BT Regression analysis  
UF Logit models  
Ordered logit models

**Macular degeneration**

BT Eye diseases  
Visual impairment

**Metacognition**

BT Cognition  
UF Meta cognition  
Meta-cognition

**Metalearning**

BT Learning systems  
Metacognition  
UF Meta learning  
Meta-learning

**Microwave metamaterials**

BT Electromagnetic metamaterials

**Mobility as a service**

BT Mobile applications  
Online services  
UF MaaS  
Mobility on demand

**Monoclonal antibodies**

BT Antibodies

**Muscular dystrophy**

BT Diseases  
Medical conditions

**Nanoantennas**

BT Nanoscale devices  
Optical antennas

**Nanomagnetics**

BT Magnetics  
Nanotechnology  
UF Nano-magnetics

**Nanoplasmonics**

BT Nanotechnology  
Plasmons

**Nanorods**

BT Nanostructures  
UF Nano-rods

**Neurorehabilitation**

BT Neurology  
Patient rehabilitation  
UF Neuro-rehabilitation

**Ocean dynamics**

BT Oceanography

**Optical antennas**

BT Antennas  
Optics

**Optical squeezing**

BT Quantum optics  
UF Squeezed light  
Squeezed states

**Particle beam bunching**

BT Particle beam handling  
UF Beam bunches

**Pedestrians**

BT Human factors  
Road traffic

**Pesticides**

BT Agrochemicals

**Photocathodes**

BT Cathodes  
UF Photo-cathodes

**Pneumonia**

BT Pulmonary diseases

**Quasi-Fermi level**

BT Energy states  
Thermodynamics  
UF Quasi Fermi level  
Imref  
Fermi energy

**Radionuclide imaging**

BT Medical diagnostic imaging  
Radiation imaging  
UF Radionuclide scans  
Radionuclide scanning

**Retroreflectors**

BT Optical devices  
UF Corner-cube prisms  
Corner cube prisms

**Scene classification**

BT Image classification

**Shared transport**

BT Sharing economy  
Transportation  
UF Bicycle sharing  
Car sharing  
Carpools  
Car pools  
Bike sharing  
Cycle sharing  
Microtransit  
Ridesharing  
Shared mobility  
Vanpools

**Shear testing**

BT Stress  
Testing

**Sieving**

BT Materials handling

**Space mapping**

BT Design optimization  
Modeling

**Squamous cell carcinoma**

BT Skin cancer

**Text detection**

BT Image processing  
Text processing  
Video signal processing

**Textile antennas**

BT Antennas  
Smart textiles

**Thyroid cancer**

BT Cancer

**Trapped ions**

BT Ions  
UF Ion trapping

**Wearable antennas**

BT Antennas  
Wearable computers  
BT Biological materials  
Microorganisms