

**IEEE Thesaurus Terms**  
**January 2024**  
**84 Terms**

**Aquatic ecosystems**

BT Ecosystems  
NT Marine ecosystems  
RT Lakes  
    Ocean dynamics  
    Ocean salinity  
    Oceans  
    Rivers  
    Sea floor  
    Wetlands  
UF Hydrosphere

**Aquifers**

BT Hydrology  
    Water resources  
RT Rocks  
    Water storage

**Asteroseismology**

BT Astrophysics  
NT Helioseismology

**Atmospheric science**

BT Science - general  
NT Carbon cycle  
    Climatology  
RT Atmosphere  
    Atmospheric measurements

**Bees algorithm**

BT Algorithms  
    Optimization

**Channel impulse response**

BT Channel state information  
RT Frequency response  
    Impulse testing  
UF CIR

**Composting**

BT Biodegradation  
    Recycling  
RT Fertilizers  
    Waste management

**Contact tracing**

BT Public healthcare  
RT Epidemiology  
    Infectious diseases

**Continental crust**

BT Geology  
RT Oceanic crust  
    Rocks  
    Tectonics

**Contrast resolution**

BT Image resolution  
RT Spatial resolution

**Deforestation**

BT Agricultural engineering  
    Forestry  
    Land use planning  
RT Rainforests  
UF Forest clearing  
    Forest clearance

## **Denitrification**

BT Nitrogen

## **Desertification**

BT Degradation

## **Echo sounders**

BT Sonar equipment

RT Sonar detection

UF Echosounders

## **Endangered species**

BT Animals

RT Environmental management

## **Environmental science**

BT Science - general

RT Biology

Environmental engineering

Environmental factors

Environmental management

Environmental monitoring

Geography

Physics

## **Evaporation**

BT Liquids

Water cycle

NT Evaporative cooling

RT Transpiration

Water

## **Evaporative cooling**

BT Cooling

Evaporation

UF Evaporative coolers

## **Fermentation**

BT Chemical processes

RT Alcoholic beverages

Dairy products

Pickling

Sewage treatment

## **Glaciers**

BT Glaciology

Ice

RT Ice sheets

Snow

## **Glaciology**

BT Geoscience

NT Glaciers

## **Grasslands**

BT Ecosystems

UF Prairie

Savanna

## **Green hydrogen**

BT Hydrogen

Renewable energy sources

RT Carbon emissions

Green manufacturing

Low-carbon economy

## **Helioseismology**

BT Asteroseismology

Nuclear and plasma sciences

## **Hindcasting**

BT Probability

RT Forecasting

Mathematical models

Prediction methods

## **Hydrography**

BT Geoscience  
RT Bathymetry  
Oceanography

## **Hypoxia**

BT Medical conditions  
RT Oxygen

## **Ice accretion**

BT Meteorology  
RT Ice

## **Ice sheets**

RT Glaciers

## **Icebergs**

BT Ice  
RT Ice shelf

## **Immunofluorescence**

BT Fluorescence  
Immunology  
Microscopy  
RT Antigens

## **Information diffusion**

BT Information exchange  
Social networking (online)  
RT Fake news  
Information sharing  
Knowledge transfer  
Privacy

## **Instance segmentation**

BT Image segmentation  
RT Object detection  
Semantic segmentation

## **Invasive species**

BT Organisms

## **Jellyfish**

BT Marine animals  
UF Sea jellies

## **Krill herd algorithm**

BT Algorithms  
Optimization  
RT Particle swarm optimization  
UF Krill Herd optimization algorithm

## **Kurtosis**

BT Probability distribution  
RT Heavily-tailed distribution

## **Landfills**

BT Waste disposal

## **Lava**

BT Rocks  
Volcanoes  
RT Magma  
Volcanic ash

## **Magma**

BT Rocks  
RT Lava

## **Marine ecosystems**

BT Aquatic ecosystems  
NT Marine animals  
Marine vegetation

## **Metabolism**

BT Biochemistry  
Physiology

**Meteorites**

BT Meteoroids  
RT Space debris

**Meteoroids**

BT Asteroids  
Comets  
NT Meteorites  
Meteors  
RT Space debris

**Meteors**

BT Meteoroids  
RT Comets

**Net zero**

BT Environmental management  
RT Carbon dioxide  
Global warming  
Greenhouse gases  
UF Net-Zero

**Non-governmental organizations**

BT Organizations  
RT Professional societies  
UF NGO  
Nongovernmental organizations  
Non-government organizations

**Oceanic crust**

BT Geology  
RT Continental crust  
Rocks  
Tectonics

**Paleontology**

BT Science - general  
RT Biology  
Geology  
Microorganisms  
UF Palaeontology

**Peat**

BT Soil

**Permafrost**

BT Soil  
RT Ice  
Tundra

**Pharmacodynamics**

BT Pharmacology  
RT Biochemistry  
Drugs  
Pharmacokinetics

**Pharmacokinetics**

BT Pharmacology  
RT Biochemistry  
Drugs  
Pharmacodynamics

**Pharmacology**

BT Medical specialties  
NT Pharmacodynamics  
Pharmacokinetics  
RT Biochemistry  
Biology  
Drugs

**Phenology**

BT Biology  
RT Biological processes  
Chronobiology  
Climate change

**Photorealistic images**

BT Virtual reality  
RT Computer graphics  
Machine learning  
Photography  
UF Photo-realistic images

## **Phytoplankton**

BT Plankton

## **Plankton**

BT Organisms

NT Phytoplankton

Zooplankton

## **Population density**

BT Demography

Density measurement

## **Rainforests**

BT Ecosystems

RT Deforestation

Forestry

UF Rain forests

## **Scenario generation**

BT Stochastic processes

RT Autonomous driving

UF Scenario generators

## **Sea surface temperature**

BT Ocean temperature

RT El Nino Southern Oscillation

UF Ocean surface temperature

## **Seaweed**

BT Algae

Marine vegetation

UF Seaweeds

## **Sedimentation**

BT Geological processes

RT Erosion

Sediments

## **Sharks**

BT Fish

## **Side-scan sonar**

BT Sonar

RT Bathymetry

UF Sidescan sonar

Side imaging sonar

## **SIM card**

BT Integrated circuits

Mobile communication

Mobile handsets

UF Subscriber identification module

Subscriber identity module

## **Storm surge**

BT Ocean dynamics

RT Sea measurements

Tides

Tsunami

## **Stratigraphy**

BT Geology

RT Rocks

## **Subduction**

BT Geological processes

Tectonics

UF Subduction zones

## **Tectonics**

BT Geology

NT Subduction

RT Continental crust

Oceanic crust

Rocks

## **Transcriptomics**

BT Genomics

RT DNA

RNA

UF Transcriptomics technologies

Transcriptomic technologies

## **Transpiration**

BT Water cycle  
RT Evaporation

## **Tundra**

BT Ecosystems  
RT Permafrost

## **Turbidity**

BT Water quality  
RT Light scattering

## **Underwater navigation**

BT Navigation  
    Underwater technology  
RT Marine navigation  
    Underwater vehicles

## **Water cycle**

BT Water  
NT Evaporation  
    Precipitation  
    Transpiration

## **Weathering**

BT Geological processes  
RT Biodegradation  
    Erosion

## **Wildfires**

BT Fires  
UF Wild fires

## **YOLO**

BT Object detection  
RT Real-time systems  
    Visualization  
UF You look only once  
    YOLOv3  
    YOLOv5

## **Zero-shot learning**

BT Deep learning  
UF Zero shot learning

## **Zooplankton**

BT Plankton