**LIST OF TECHNOLOGY KEYWORDS**

* **ELECTRONICS, IT AND TELECOMMS**
  + **Electronics, Microelectronics**
    - **Automation, Robotics Control Systems**
    - **Digital Systems, Digital Representation**
    - **Electronic circuits, components and equipment**
    - **Electronic engineering**
    - **Embedded Systems and Real Time Systems**
    - **High Frequency Technology, Microwaves**
    - **Magnetic and superconductory materials/devices**
    - **Microengineering**
    - **Micromachining**
    - **Nanotechnologies related to electronics and microelectronics**
    - **Optical Networks and Systems**
    - **Peripherals Technologies (Mass Data Storage, Display Technologies) related to electronics and microelectronics**
    - **Printed circuits and integrated circuits**
    - **Quantum Informatics**
    - **Semiconductors**
    - **Smart cards and access systems**
    - **Environmental and Biometrics Sensors, Actuators**
  + **Information Processing, Information System, Workflow Management**
    - **Advanced Systems Architecture**
    - **Archivistics/Documentation/Technical Documentation**
    - **Artificial Intelligence (AI)**
    - **Computer Games**
    - **Computer Hardware**
    - **Computer Software**
    - **Computer Technology/Graphics, Meta Computing**
    - **Data Processing / Data Interchange, Middleware**
    - **Data Protection, Storage Technology, Cryptography, Data Security**
    - **Databases, Database Management, Data Mining**
    - **Electronic Commerce, Electronic Payment**
    - **Imaging, Image Processing, Pattern Recognition**
    - **Information Technology/Informatics**
    - **Internet Technologies/Communication (Wireless, Wi-Fi, Bluetooth)**
    - **Knowledge Management, Process Management**
    - **Simulation**
    - **Speech Processing/Technology**
    - **User Interfaces, Usability**
    - **Electronic Signature**
    - **Building Automation Software**
    - **Remote Control**
    - **Smart Appliances**
  + **IT and Telematics Applications**
    - **Applications for Health**
    - **Applications for Tourism**
    - **Applications for Transport and Logistics**
    - **ASP Application Service Providing**
    - **e-Government**
    - **Environment Management Systems & Documental Management Systems**
    - **GIS Geographical Information Systems**
    - **CRM - Customer relationship Management**
    - **Quality Management System**
    - **Maintenance Management System**
    - **Operation Planning and Scheduler System**
    - **Didactic System**
    - **ICM - Internet Content Management**
    - **Analysis Risk Management**
    - **Work Hygiene and Safety Management**
  + **Multimedia**
    - **Cultural Heritage**
    - **E-Learning**
    - **E-Publishing, Digital Content**
    - **Human Language Technologies**
    - **Information Filtering, Semantics, Statistics**
    - **Visualisation, Virtual Reality**
  + **Telecommunications, Networking**
    - **Audiovisual Equipment and Communication**
    - **Broadband Technologies**
    - **Mobile Communications**
    - **Narrow Band Technologies**
    - **Network Technology, Network Security**
    - **Radar**
    - **Research Networking, GRID**
    - **SatelliteTechnology/Systems/Positioning/Communication in GPS - Global Positioning System**
    - **Signal Processing**
    - **Hi-Fi**
    - **Description to Sound and Music Computing**
    - **Description Image/Video Computing**
    - **Communications Protocols, Interoperability**
    - **Residential Gateaway**
* **INDUSTRIAL MANUFACTURING, MATERIAL AND TRANSPORT TECHNOLOGIES**
  + **Design and Modelling / Prototypes**
  + **Industrial Manufacture**
    - **Cleaning (sandblasting, brushing)**
    - **Coatings**
    - **Drying**
    - **Erosion, Removal (spark erosion, flame cutting, laser/plasma cutting, electrochemical erosion, waterjet cutting)**
    - **Forming (rolling, forging, pressing, drawing)**
    - **Hardening, heat treatment**
    - **Joining techniques (riveting, screw driving, gluing)**
    - **Jointing (soldering, welding, sticking)**
    - **Machine Tools**
    - **Machining (turning, drilling, moulding, milling, planning, cutting)**
    - **Machining, fine (grinding, lapping)**
    - **Mixing (powder, etc.), separation (sorting, filtering)**
    - **Moulding, injection moulding, extrusion, sintering**
    - **Surface treatment (painting, galvano, polishing, CVD, PVD)**
  + **Process control and logistics**
  + **Plant Design and Maintenance**
  + **Packaging / Handling**
    - **Foil, fils**
    - **Laminate**
    - **Packaging for machines**
    - **Packaging for materials**
    - **Plastic bags**
  + **Construction Technology**
    - **Building Materials, Components and Methods**
    - **Civil engineering**
    - **Construction Equipment**
    - **Fire Resistance/Safety**
    - **Mechanical Engineering, Hydraulics, Vibration and Acoustic Engineering related to construction technology**
    - **Pipeline Technology**
    - **Pulp Technology related to construction technology**
    - **Sensory/Multisensory Technology, Instrumentation related to construction technology**
    - **Simulation, Simulation Engineering**
    - **Sound Insulation**
    - **Vacuum / High Vacuum Technology**
    - **Gas Safety**
    - **Security**
  + **Materials Technology**
    - **Adhesives**
    - **Building materials**
    - **Ceramic Materials and Powders**
    - **Colours and varnish**
    - **Composite materials**
    - **Fine Chemicals, Dyes and Inks**
    - **Glass**
    - **Iron and Steel, Steelworks**
    - **Materials Handling Technology (solids, fluids, gases)**
    - **Metals and Alloys**
    - **Non-ferrous Metals**
    - **Optical Materials**
    - **Paper technology**
    - **Plastics, Polymers**
    - **Properties of Materials, Corrosion/Degradation**
    - **Rubber**
    - **Stone**
    - **Advanced Textile Materials**
  + **Transport Infrastructure**
    - **Air Transport**
    - **Intermodal Transport**
    - **Logistics**
    - **Railway Transport**
    - **Road Transport**
    - **Traffic Engineering / Control Systems**
    - **Transhipment Systems**
    - **Water Transport**
  + **Transport and Shipping Technologies**
    - **Design of Vehicles**
    - **Hybrid and Electric Vehicles**
    - **Railway Vehicles**
    - **Road Vehicles**
    - **Shipbuilding**
    - **Traction/Propulsion Systems**
  + **Aerospace Technology**
    - **Aeronautical technology / Avionics**
    - **Aircraft**
    - **Helicopter**
    - **Satellite Navigation Systems**
    - **Space Exploration and Technology**
* **OTHER INDUSTRIAL TECHNOLOGIES**
  + **Other Industrial Technologies**
    - **Cleaning Technology**
  + **Process Plant Engineering**
  + **Apparatus Engineering**
  + **Chemical Technology and Engineering**
    - **Agro chemicals**
    - **Anorganic Substances**
    - **Colours, dyes related to Chemical Technology and engineering**
    - **Electrical Engineering and Technology / Electrical Equipment**
    - **Man made fibres**
    - **Organic Substances**
    - **Pharmaceutics**
    - **Plastics and Rubber related to Chemical Technology and engineering**
    - **Soaps, detergents**
    - **Special chemicals, intermediates**
    - **Care, Hygiene, Beauty**
  + **Textiles Technology**
    - **Component adhesives for strengthening of seam**
    - **Dry filling related to Textiles Technology**
    - **Dyeing related to Textiles Technology**
    - **Finisher related to Textiles Technology**
    - **Non weaving related to Textiles Technology**
    - **Solvent based glues for strengthening of edges and seam**
    - **Thermoplastic textile fibres**
    - **Weaving related to Textiles Technology**
    - **Woven technical textiles for industrial applications**
  + **Footwear / Leather Technology**
    - **Dry filling related to Footwear / Leather Technology**
    - **Dyes related to Footwear / Leather Technology**
    - **Tanned leather process related to Footwear / Leather Technology**
  + **Sound Engineering/Technology**
  + **Mining Technologies**
  + **Printing**
    - **Flexography**
    - **Printed Reel Material**
  + **Household Goods & Appliances**
* **ENERGY**
  + **Energy Storage and Transport**
    - **Heat storage**
    - **Heat transport and supply, district heating**
    - **Storage of electricity, batteries**
    - **Transmission of electricity**
    - **Transport and storage of gas and liquid fuels**
    - **Transport and storage of hydrogen**
  + **Energy production, transmission and conversion**
    - **Fuel cell, hydrogen production**
    - **Fuel liquefaction, gasification**
    - **Furnace technology, construction of heating boilers**
    - **Generators, electric engines and power converters**
    - **Heat exchangers**
    - **Heat pump, cooling technologies**
    - **Heating, ventilation**
    - **Turbines, fluid machinery, reciprocating engines, combined heat and power**
  + **Fossil Energy Sources**
    - **Coal and Hydrocarbons**
    - **Gaseous fossil fuel**
    - **Solid fossil fuel**
    - **Liquid fossil fuel**
  + **Nuclear Fission / Nuclear Fusion**
  + **Renewable Sources of Energy**
    - **Gaseous biomass**
    - **Geothermal Energy**
    - **Hydropower**
    - **Liquid biomass**
    - **Photovoltaics**
    - **Solar/Thermal energy**
    - **Solid biomass**
    - **Unconventional and Alternative Energies**
    - **Waste incineration**
    - **Wind energy**
  + **Rational use of energy**
    - **Energy management**
    - **Lighting, illumination**
    - **Process optimisation, waste heat utilisation**
    - **Thermal insulation, energy efficiency in buildings**
  + **Other Energy Topics**
    - **Combustion, Flames**
    - **Fuel Technology**
* **PHYSICAL AND EXACT SCIENCES**
  + **Astronomy**
  + **Chemistry**
    - **Analytical Chemistry**
    - **Computational Chemistry and Modelling**
    - **Inorganic Chemistry**
    - **Organic Chemistry**
    - **Petrochemistry, Petroleum Engineering**
  + **Earth Sciences**
    - **Geology, Geological Engineering, Geotechnics**
    - **Oceanography**
    - **Tectonics, Seismology**
  + **Mathematics, Statistics**
    - **Algorithms and Complexity**
    - **Mathematical modelling**
    - **Statistical Analysis**
  + **Meteorology / Climatology**
    - **Biosensor**
    - **Moisture sensors**
    - **Temperature monitoring**
  + **Physics**
    - **Acoustics**
    - **Astrophysics / Cosmology**
    - **Laser Technology**
    - **Nuclear Physics**
    - **Physics of Fluids**
    - **Sensors/Multisensor Technology, Instrumentation**
    - **Solid state physics**
    - **Thermodynamics**
    - **Vibration and Acoustic engineering**
    - **Optics**
  + **Mechanical Engineering**
    - **Micro-Mechanics**
  + **Hydraulics**
  + **Separation Technologies**
    - **Filtration and Membrane Processes**
    - **Extraction**
    - **Adsorption**
    - **Distillation**
    - **Sublimation**
    - **Other Processes**
  + **Micro- and Nanotechnology related to physical and exact sciences**
* **BIOLOGICAL SCIENCES**
  + **Medicine, Human Health**
    - **Biostatistics, Epidemiology**
    - **Care and Health Services**
    - **Clinical Research, Trials**
    - **Cytology, Cancerology, Oncology**
    - **Dentistry / Odontology, Stomatology**
    - **Diagnostics, Diagnosis**
    - **Diseases**
    - **Environmental Medicine, Social Medicine, Sports Medicine**
    - **Gene - DNA Therapy**
    - **Gerontology and Geriatrics**
    - **Heart and blood circulation illnesses**
    - **Electromedical and Medical Equipment**
    - **Medical Research**
    - **Medical Technology / Biomedical Engineering**
    - **Neurology, Brain Research**
    - **Pharmaceutical Products / Drugs**
    - **Physiology**
    - **Surgery**
    - **Virus, Virology / Antiobiotics / Bacteriology**
    - **Laboratory Equipment**
    - **Rescue and Emergency Equipment**
    - **Physiotherapy, Orthopaedic Technology**
    - **Single Use Products and Consumer Goods**
    - **Medical Textiles**
    - **Medical Furniture**
    - **Medical Biomaterials**
  + **Biology / Biotechnology**
    - **Biochemistry / Biophysics**
    - **Cellular and Molecular Biology**
    - **Enzymology / Protein Engineering / Fermentation**
    - **Genetic Engineering**
    - **In vitro Testing, Trials**
    - **Microbiology**
    - **Molecular design**
    - **Toxicology**
  + **Genome Research**
    - **Bioinformatics**
    - **Gene Expression, Proteom Research**
    - **Population genetics**
  + **Micro- and Nanotechnology related to Biological sciences**
* **AGRICULTURE AND MARINE RESOURCES**
  + **Agriculture**
    - **Agriculture Machinery / Technology**
    - **Animal Production / Husbandry**
    - **Biocontrol**
    - **Crop Production**
    - **Horticulture**
    - **Pesticides**
    - **Precision agriculture**
    - **Seed coating**
    - **Veterinary Medicine**
  + **Sylviculture, Forestry, Forest technology**
    - **Forest technology**
    - **Paper Technology**
    - **Pulp Technology**
    - **Sylviculture, Forestry**
    - **Wood Products**
  + **Resources of the Sea, Fisheries**
    - **Aquaculture**
    - **Fish / Fisheries / Fishing Technology**
    - **Marine Science**
* **AGROFOOD INDUSTRY**
  + **Technologies for the food industry**
    - **Drink Technology**
    - **Food Additives/Ingredients/Functional Food**
    - **Food Packaging / Handling**
    - **Food Processing**
    - **Food Technology**
  + **Food quality and safety**
    - **Detection and Analysis methods**
    - **Food Microbiology / Toxicology / Quality Control**
    - **Safe production methods**
    - **Tracability of food**
  + **Nutrition and Health**
* **MEASUREMENTS AND STANDARDS**
  + **Measurement Tools**
    - **Acoustic Technology related to measurements**
    - **Analyses / Test Facilities and Methods**
    - **Chemical material testing**
    - **Electrical Technology related to measurements**
    - **Mechanical Technology related to measurements**
    - **Optical material testing**
    - **Optical Technology related to measurements**
    - **Other Non Destructive Testing**
    - **Sensor Technology related to measurements**
    - **Thermal material testing**
  + **Amplifier, A/D Transducer**
  + **Electronic measurement systems**
  + **Recording Devices**
  + **Reference Materials**
  + **Standards**
    - **Quality Standards**
    - **Technical Standards**
* **PROTECTING MAN AND ENVIRONMENT**
  + **Safety**
    - **Acoustic safety**
    - **Assessment of Risk**
    - **Fire Safety Technology**
    - **Hazardous Materials**
    - **Radiation Protection**
  + **Environment**
    - **Air Pollution / treatment**
    - **Biodiversity**
    - **Ecology**
    - **Environmental Engineering / Technology**
    - **Measurement and Detection of Pollution**
    - **Natural Disasters**
    - **Remote sensing technology**
    - **Soil Pollution**
    - **Water Pollution / Treatment**
  + **Waste Management**
    - **Biotreatment / Compost / Bioconversion**
    - **Incineration and Pyrolysis**
    - **Land and Sea Disposal**
    - **Recycling, Recovery**
    - **Radioactive Waste**
* **SOCIAL AND ECONOMICS CONCERNS**
  + **Socio-economic development models, economic aspects**
  + **Education and Training**
  + **Information and media, society**
  + **Technology, Society and Employment**
  + **Infrastructures for social sciences and humanities**
  + **Citizens participation**
  + **Foresight tools**
  + **Sports and Leisure**