**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**