INFORMATION & COMMUNICATION TECHNOLOGIES

BIG DATA
- Control Panels and Decision Support Systems
- Social Network Analytics, Influence and Propagation, Recommendation Systems
- Real-time Big Data Management
- Data Graphs

GIS
- Advanced Apps Development, Augmented Reality
- Geolocation and Tracking
- Geographic Information Systems, Open Street Map

SMART LEARNING
- E-Learning
- Gamification
- Learning Analytics

COLLABORATIVE INTERNET
- Integration of Social Networks into Collaborative Environments
- Multimedia Information Systems
- P2P Distributed Systems
- Social, Secure, Inclusive and Interoperable Apps

SECURITY
- High Availability Infrastructure
- Logical Security, Audits, Penetration Tests for Heterogeneous Networks and Forensic Analysis
- Biometry, Authentication Systems and Identity Management
- Digital Identification, Electronic Signature and Encryption
- Automatic Analysis Techniques for Patterns of Behaviour
- Big Data Analytics in Fraud Detection
SMART CITIES
- APPLICATIONS FOR ACTIVE MANAGEMENT AND TRAFFIC INFORMATION
- EMERGENCY DECISION SUPPORT SYSTEMS
- SMART MOBILITY
- SIMULATION AND OPTIMIZATION OF ENERGY EFFICIENCY
- CONTEXTUAL MOBILE APPS

HEALTH
- MEDICAL IMAGING
- PATIENT MONITORING SOLUTIONS
- MOBILE HEALTH
- BIOMEDICAL SIGNALS PROCESSING
- GENOMICS
- INFORMATION MANAGEMENT SYSTEMS
- SYSTEMS FOR REHABILITATION AND THERAPY

MANUFACTURING
- INDUSTRIAL COMMUNICATIONS
- ARTIFICIAL INTELLIGENCE APPLIED TO PREDICTIVE MAINTENANCE
- INTELLIGENT MONITORING OF INDUSTRIAL PROCESSES
- DIGITAL CONTROL WITH MICROPROCESSORS AND DSP
- SENSOR SYSTEMS AND DATA EXTRACTION
- COMPUTER VISION FOR QUALITY CONTROL
- INDUSTRIAL & LOGISTICS PROCESSES OPTIMIZATION

USER EXPERIENCE
- HUMAN MACHINE INTERFACE (HMI). DESIGN OF ADVANCED INTERACTIVE DEVICES
- VOICE-BASED HMIS
- USABILITY. USER EXPERIENCE LABORATORY
- CALM COMPUTING
- SENTIMENT ANALYSIS

ROBOTICS
- PERCEPTION SYSTEMS: VISION TO CONTROL AND GUIDE ROBOTS
- SPEECH SYNTHESIS AND AUTOMATIC LANGUAGE PROCESSING
- HEALTHCARE ROBOTICS

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