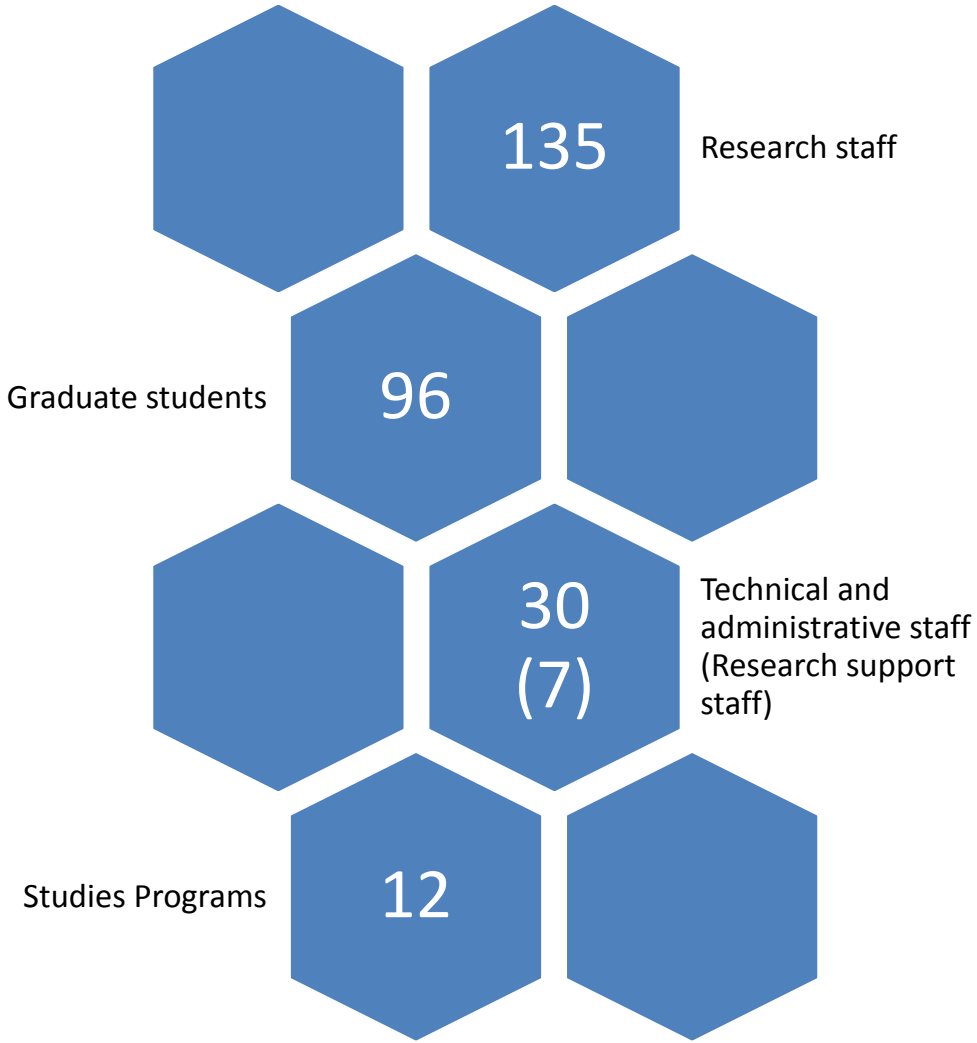
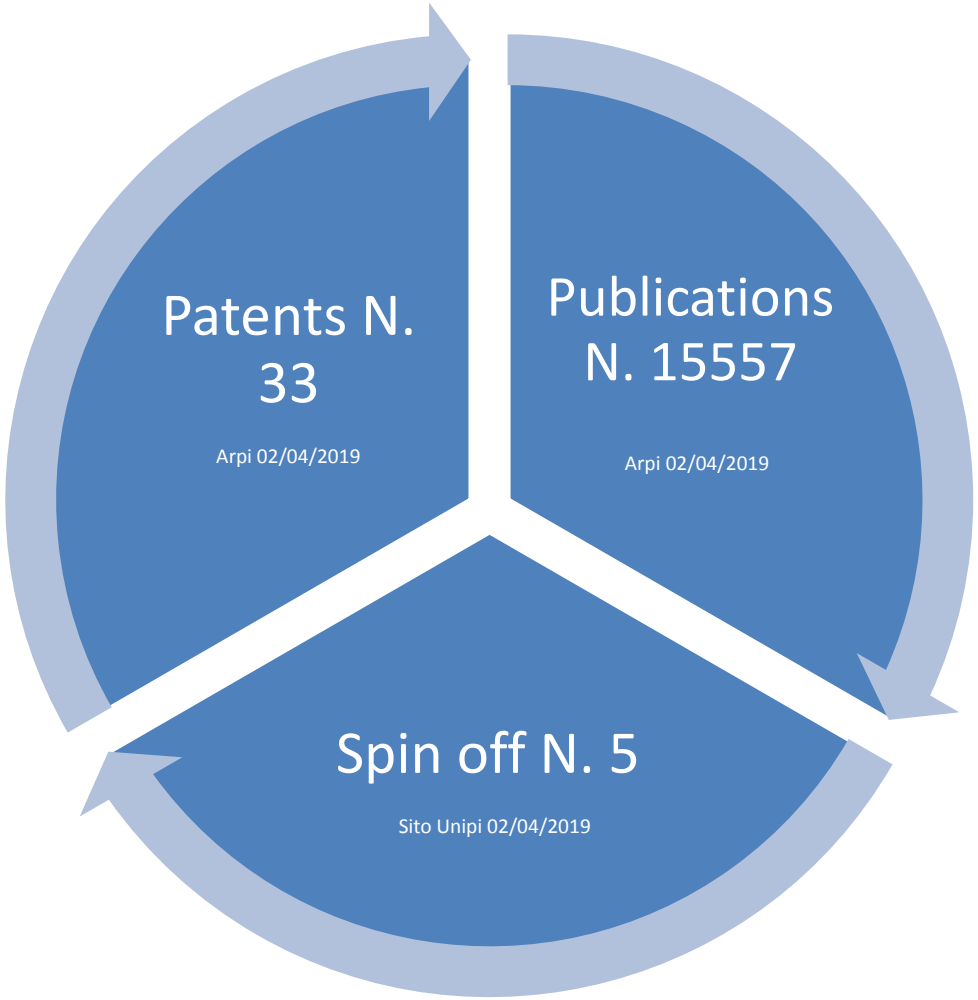
DEPARTMENT
INFORMATION ENGINEERING

DEPARTMENT OF INFORMATION ENGINEERING

AN EXCELLENCE CENTER IN THE UNIVERSITY OF PISA FOR RESEARCH AND HIGHER EDUCATION IN THE FIELD OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

DEPARTMENT AT A GLANCE



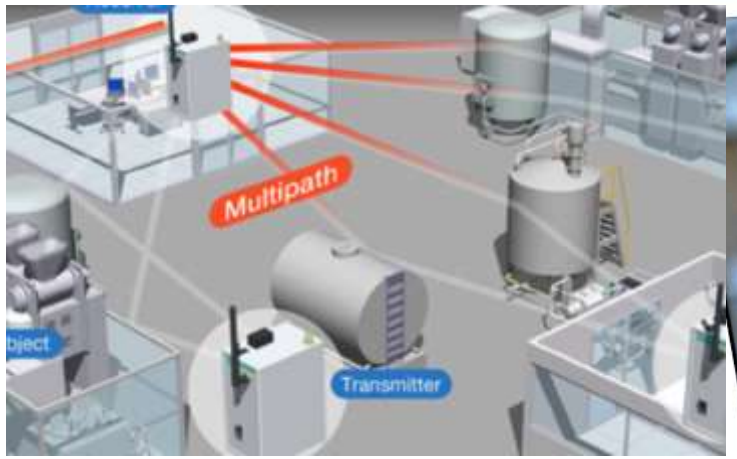


RESEARCH AREAS

Automation and Robotics	Systems Control, Industrial Automation, Autonomous Systems, Industrial & Service Robotics, Collaborative & Soft Robotics, Haptic, Aerial Marine & Land Mobile Robotics
Bioengineering	Biomedical Signal Processing, Wearable Biomedical Sensors and Systems, Cardiovascular and Neural Modeling, Computer Assisted Surgery and Augmented Reality, Biomedical Additive Manufacturing
Applied Electromagnetics	Antennas for future generation, Metamaterials, RFID, Electromagnetic field evaluation for safety and security, Ultra thin elecromagnetic absorbers
Telecommunication Systems	Digital Communications, Communication Networks, Radar and Remote Sensing
Electronics	Semiconductor Technology, Devices and Sensors; Analog, Digital, RF Circuits and Systems Design; Power Management
Computer Science & Engineering	Embedded Systems, Computer Networks, Pervasive Computing, Data Analytics and Soft Computing, Information Systems, Cybersecurity, Computer Ethics and Digital Citizenship

RESEARCH PROJECTS

23 EU projects (49 in 3 years)
6 EU projects coordinated by DII
3 ERC grants
25 Regional Projects
130+ contracts with industries
630+ collaborations with industries
“Dipartimento di Eccellenza”- MIUR



RESEARCH IMPACT

Large enterprises and SMEs
Technology transfer, Research for Industry 4.0
Collaborations with industries
Involvement of industries in projects

Healthcare
E-health, Rehabilitation, design, fabrication and characterization of biomedical devices and phantoms
Surgical planning and navigation for our area patients
Rehabilitation and Prosthetics

Entertainment/Culture
Virtual and augmented reality
Soft robotics for human-robot interaction

Safety for people and environment
Monitoring and rescue in hostile and hazardous environments
Safe Human-Robot Interaction

CyberSecurity

Security of Enterprises and Public Administration
Security in the Internet of Things
Security in Automotive