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 staff: 135
- Graduate students: 96
- Technical and administrative staff (Research support staff): 30 (7)
- Studies Programs: 12

- Publications: N. 15557
  Arpi 02/04/2019

- Patents: N. 33
  Arpi 02/04/2019

- Spin off: N. 5
  Sito Unipi 02/04/2019
## Research Areas

<table>
<thead>
<tr>
<th>Area</th>
<th>Topics</th>
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<tbody>
<tr>
<td>Bioengineering</td>
<td>Biomedical Signal Processing, Wearable Biomedical Sensors and Systems, Cardiovascular and Neural Modeling, Computer Assisted Surgery and Augmented Reality, Biomedical Additive Manufacturing</td>
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<tr>
<td>Applied Electromagnetics</td>
<td>Antennas for future generation, Metamaterials, RFID, Electromagnetic field evaluation for safety and security, Ultra thin electromagnetic absorbers</td>
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<tr>
<td>Telecommunication Systems</td>
<td>Digital Communications, Communication Networks, Radar and Remote Sensing</td>
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<tr>
<td>Electronics</td>
<td>Semiconductor Technology, Devices and Sensors; Analog, Digital, RF Circuits and Systems Design; Power Management</td>
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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

INFORMATION ENGINEERING

UNIVERSITÀ DI PISA