DOCTORAL PROGRAM IN

INFORMATION ENGINEERING AND COMPUTER SCIENCE
17,000 Students
1,300 Foreign students

TOP POSITIONS in national and international university rankings
In the Times Higher Education World University Rankings 2020, the University of Trento is ranked 101–125 for Computer Science.

In the Shanghai Ranking’s Global Ranking of Academic Subjects 2019 - Computer Science & Engineering, the University of Trento is ranked 101-150.

The CENSIS ranking 2019-2020 ranked the University of Trento in the TOP POSITION.

The Department of Information engineering and Computer Science is nominated as Excellence Department and listed among 180 best Departments of the State universities in Italy.
The ICT International Doctoral School for almost 20 years delivers the skills necessary to conduct advanced research and to contribute to scientific and technological progress.

The specific objective of the doctoral program is to train professionals able to develop high-quality and innovative information and telecommunication solutions.

Our alumni work at leading universities, research centers and private companies.
Currently enrolled students: 131 (Cycles 31-36)

Last 3 calls for applications data

<table>
<thead>
<tr>
<th>Cycle</th>
<th>N of Applications</th>
<th>N of enrolled students</th>
<th>Applications from N of countries*</th>
<th>Enrolled students from N countries*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycle 34 (2018-19)</td>
<td>205</td>
<td>15</td>
<td>37</td>
<td>15</td>
</tr>
<tr>
<td>Cycle 35 (2019-20)</td>
<td>195</td>
<td>10</td>
<td>39</td>
<td>10</td>
</tr>
<tr>
<td>Cycle 36 (2020-21)</td>
<td>178</td>
<td>11</td>
<td>39</td>
<td>11</td>
</tr>
</tbody>
</table>

Alumni** distribution

- ** 151 of 353 alumni (data provided by advisors in 2016)
Duration: 3 years

Academic year: from November, 1\textsuperscript{st} to October, 31\textsuperscript{st}

Official language: English

Period abroad: Mandatory 3-month research period abroad

Exclusive and full-time commitment is required
DOCTORAL PROGRAM IN INFORMATION ENGINEERING AND COMPUTER SCIENCE

PhD TRACKS

• **Standard PhD program in cutting-edge research areas:**
  - Bioinformatics
  - Computer Vision
  - Cyber Security
  - Data Analytics and Management
  - Deep and Structured Machine Learning
  - Distributed Sensing
  - Embedded Systems
  - Formal Methods
  - Human Computer Interaction
  - Knowledge Management
  - Machine Learning and Intelligent Optimization
  - Multimedia Analysis
  - Natural Language Processing
  - Pattern Recognition
  - Remote Sensing and Radar
  - Signal Processing
  - Social Informatics
  - Software Engineering
  - Speech and Dialogue
  - Systems and Networks
  - Wireless Networking
  - Wireless Technology and System

• **Transdisciplinary Program: Standard PhD Program + extra discipline:**
  - Computational Biology
  - Space Data Science and Technology (SpaDaST)
  - Quantum Science and Technologies (QST)
Double PhD Degree

- Jilin University, PRC - China
- Leopold Franzes of Innsbruck, Austria
- Mongolian National University of Medical Sciences, Mongolia
- Pontificia Universidade Católica do Rio de Janeiro, Brasil
- Pontificia Universidad Catolica de Chile, Chile
- Radboud University, The Netherlands
- Tomsk Polytechnic University, Russia
- Ufa State Aviation Technical University, Russia
- University of Haifa, Israel
- University of Iceland, Iceland
- University Novi Sad, Serbia
- Universitatea Politehnica Bucuresti, Romania
- University of Zagreb, Croatia

Mobility Programs

- Bilateral Agreements with universities all over the world
- Erasmus Mundus Programs
- Erasmus+ Program
# PhD Program Timeline

## Year 1
- **Coursework**
- Research problem and research plan definition

## Year 2
- **Qualifying Exam**
- Coursework
- Preliminary research results

## Year 3
- **Research work**
- Period abroad
- Doctoral Thesis submission

- **Admission to Y3:**
  - Qualifying exam passed
  - ≥12 course credits (Y1+Y2) (4 courses)
  - Research plan incl. period abroad
  - ≥2 ISI/SCOPUS-indexed publications
  - Positive assessment by the advisor

## Final Exam
- **Admission to FE:**
  - ≥3 seminars or ≥1 Summer/Winter school attendance
  - Completion of ≥3-months research period abroad
  - ≥2 ISI/SCOPUS-indexed publications
Applications for the PhD Program in Information and Communication Technology are accepted from applicants who hold a Master’s Degree.

Applications are also accepted from students who expect to complete their degree by October 31st.

The application is subject to €15 non-refundable fee.
All the PhD positions are covered by scholarships. The scholarship is approx. 1,200€/month net for 3 years. The net amount may change, depending on the country of residence and specific taxation agreements. Cost of living in Trento

Each student is provided with a budget for research activity which can be used only for educational and research purposes, e.g. courses, conferences, summer schools, registration to scientific associations.

Students with a PhD scholarship are entitled to get a 50% increase of their scholarship when staying abroad for their doctoral research and studies. More information on how to apply for the scholarship increase is here.
BENEFITS

Accommodation

1st year students have the priority for getting accommodation at student residences. Additional information can be found here.

Annual pass for public transport

PhD students can buy the free circulation annual bus pass (public transport within Trento province) at the reduced cost of 50€. Additional information can be found here.

Visa and stay permit

The Welcome Office of the University of Trento supports students in the visa request, arrival, permit of stay and housing procedures. Additional information can be found here.
DOCTORAL PROGRAM IN INFORMATION ENGINEERING AND COMPUTER SCIENCE

TRENTO
DOCTORAL PROGRAM IN INFORMATION ENGINEERING AND COMPUTER SCIENCE

CONTACTS

WEBSITE: https://iecs.unitn.it/

SECRETARIAT: iecs.school@unitn.it