



FAKULTÄT
FÜR INFORMATIK
Faculty of Informatics

FACULTY OF INFORMATICS @ VIENNA UNIVERSITY OF TECHNOLOGY (TU WIEN)

Science and Technology
in the Information Age

*Austria's first institution
for research and education
in computer science and
information systems*

*Hot spot of Austrian
computer science*



SCIENCE AND TECHNOLOGY

TU WIEN – RESEARCH EXCELLENCE

Innovative solutions for complex problems

QS World University Rankings 2015

Computer Science and Information Systems / Europe / German-speaking region / H-Index

- 1 ETH Zürich, Switzerland
- 2 TU München, Germany
- 3 TU Wien, Austria

- Databases
- Artificial Intelligence and Knowledge Representation
- High Performance Computing
- Cloud Computing
- Computer Vision and Pattern Recognition
- Visualization
- Computer Graphics
- Virtual and Augmented Reality
- Data Science and Business Intelligence
- Business Process Modeling and Management
- eCommerce
- Human-Computer Interaction
- Service-Oriented Architecture
- Smart Cities
- Advanced Manufacturing / Industry 4.0
- Embedded Systems / Cyber-Physical Systems
- Software Engineering and Programming Languages
- Verification, Testing and Validation
- Computer Security
- Logic and Algorithms

The Faculty of Informatics at the Vienna University of Technology (TU Wien) is *the largest computer science faculty in the German-speaking region*, an area in the center of Europe which comprises roughly 100 million people.

- 55 professors
- 350 researchers
- 155 researchers in competence centers for visualization and security
- 1 Wittgenstein Prize winner, 5 START Award winners, 3 ERC grantees, 2 Vienna Research Groups for Young Investigators (WWTF)

Research rankings

The Faculty of Informatics has been ranked continuously among the top universities in the German-speaking region during the past few years.



STUDY PROGRAMS AND ALUMNI

TU WIEN – TALENT FACTORY

The Faculty of Informatics at TU Wien educates *more than half of Austria's computer scientists*. It provides a pool of highly qualified alumni who are sought after by national and international businesses.

Attractive and specialized Master programs

- Visual Computing
- Media Informatics
- Medical Informatics
- Software Engineering & Internet Computing
- Computer Engineering

English language Master programs

- Computational Intelligence / Logic and Computation
- Business Informatics
- Computational Logic
- i2c Diploma Supplement on Innovation

Research-oriented Doctoral programs

- Vienna PhD School of Informatics
- Specific Doctoral Colleges
 - Cyber-Physical Production Systems
 - Environmental Informatics
 - Adaptive Distributed Systems
 - Computational Perception
 - Logical Methods in Computer Science

Alumni

- ~ 280 Bachelor program alumni per year
- ~ 220 Master program alumni per year
- ~ 50 Doctoral program alumni per year

Culturally diverse student body

- ~ 1 in 4 are international students
- ~ 1 in 3 are international doctoral students



INNOVATION

TU WIEN – ECONOMIC DRIVING FORCE

Corporate partners

(selection)

Agfa Healthcare

Anovis

Asfinag

APG (Austrian Power Grid)

AVL List

Bosch

Frequentis

Hewlett-Packard

IBM

Infineon

Kapsch TrafficCom

Microsoft

ÖBB (Austrian Federal

Railways)

Raiffeisen Informatik

RUAG Space

Thales

Theobroma

Ximes

Zumtobel

Research centers and research laboratories in cooperation with businesses and industries

- **VRVis** – COMET Competence Center (Virtual Reality and Visualization)
- **SBA** – COMET Competence Center (Secure Business Austria – Security)
- **Christian-Doppler-Laboratory** for “Software Engineering Integration for Flexible Automation Systems”
- **CVAST** – Laura Bassi Center of Expertise (Center for Visual Analytics Science and Technology)

Informatics Innovation Center (i²c)

The Informatics Innovation Center (i²c) is an initiative of the Faculty of Informatics at TU Wien. It aims to establish innovation as a third pillar next to research and teaching. The i²c promotes cooperation between the faculty and industry partners and supports knowledge transfer from science to start-ups through its i²c StartAcademy. Furthermore, the Center offers a curriculum on Innovation and Entrepreneurship as a supplement to the Master program.

Start-ups / Spin-offs

The large number of start-ups and spin-offs launched by Informatics alumni inspired Austria’s leading weekly magazine *profil* to coin the term “Silicon Wieden”, referring to the city district where TU Wien is located.

Examples of successful spin-offs

- CogVis
- Ecosio
- Ilangai
- Imagination
- Linbit
- Lixto
- NetHotels
- TTTech
- Ximes



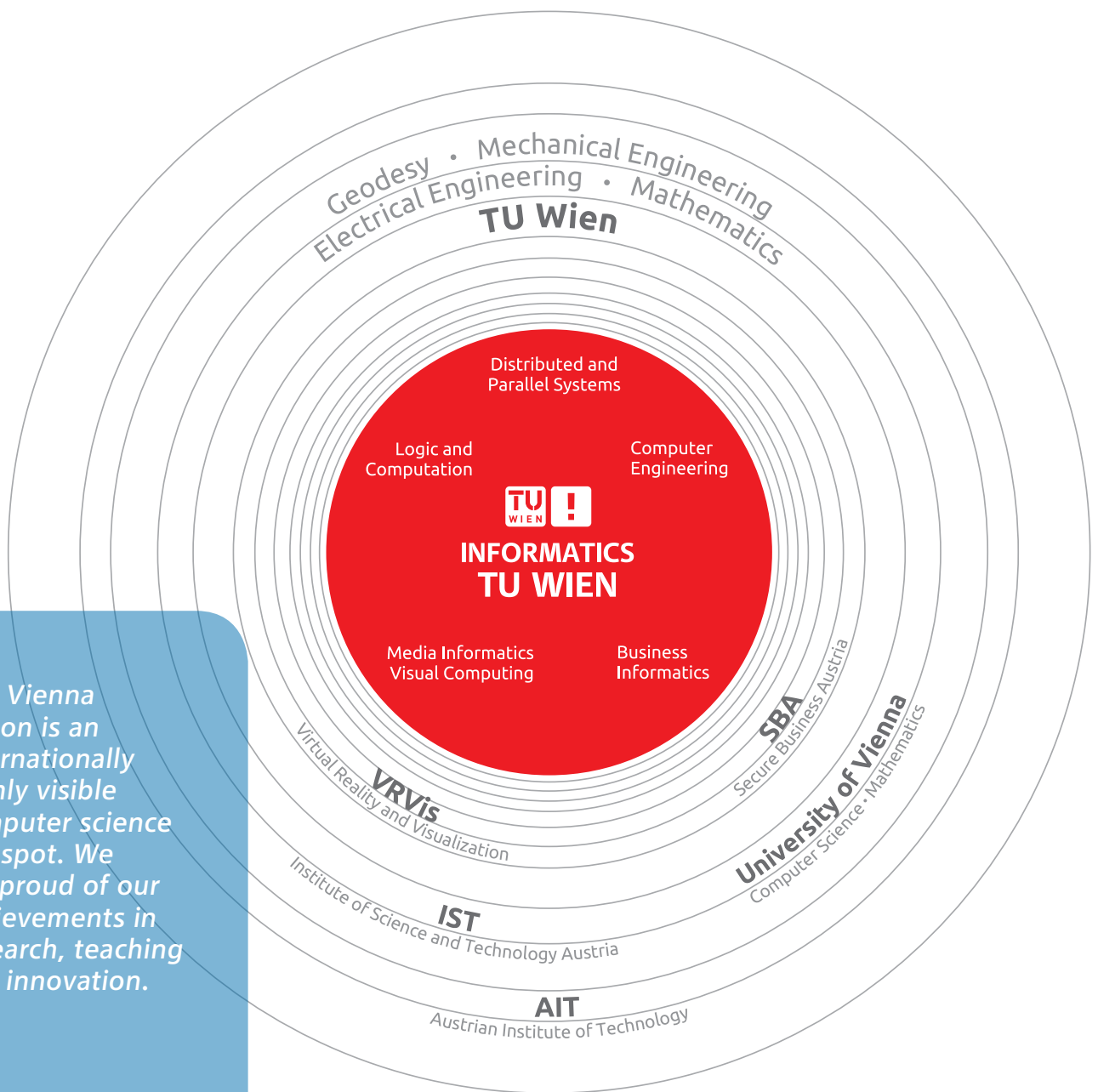
SYNERGIES IN THE VIENNA REGION

TU WIEN – COMPUTER SCIENCE HOT SPOT

The University of Vienna, the Institute of Science and Technology Austria (IST), the Austrian Institute of Technology (AIT) and several related faculties at TU Wien strengthen and complement the expertise of the Faculty of Informatics in the following areas:

- Bioinformatics
- Computational Geometry
- Geographic Information Systems
- Network Technology
- Microelectronics and Control Systems
- Digital Humanities

The Vienna region is an internationally highly visible computer science hot spot. We are proud of our achievements in research, teaching and innovation.





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Erzherzog-Johann-Platz 1/E180
1040 Vienna, Austria

<http://www.informatik.tuwien.ac.at>
contact@informatik.tuwien.ac.at

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