Institute of Informatics
UFRGS

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Rio Grande do Sul – Porto Alegre

- 11.2 million people
- Roughly the size of Britain
- Life exp. 76.9 (2010)
- HDI 0.746
- 4\textsuperscript{th} GDP in Brazil ~100B US$
- Capital of the state
- 1.47 million people
- 11th largest city in Brazil
- Video about Porto Alegre
  [http://www.youtube.com/watch?v=pCh4h1aYxtw](http://www.youtube.com/watch?v=pCh4h1aYxtw)
Federal University of Rio Grande do Sul (UFRGS)

• Founded in 1934 (first schools date back to 1895)
• 86 undergraduate programs/65 PhD programs
• Top five university in Brazil
• Approximately 2,700 faculty members
• UFRGS Students: ~27 K (undergraduate) and ~17 K (postgraduate)
• ~600 CNPq Fellowships (Advanced research fellowships)
• Ranked the best university in Brazil
UFRGS – Central Campus
Technology-intensive top research areas at UFRGS

- IT – Software, Automation, Communication
- Energy, Oil, Gas
- Bio- and Nanotechnologies
- Mechanical Engineering and Metallurgy
- Health and Life Sciences
- Water Resources, Environment
- Food and Agrarian Sciences
- 200+ technology-related projects currently running
- Large number of joint projects with companies
- Research funding in excess of U$ 100 million
Institute of Informatics at Campus do Vale
Institute of Informatics (INF-UFRGS)

- One of the largest CS institutes in Brazil
- Graduate Program: 1973
- Institute of Informatics: 1989
  - 68 full-time faculty/4 part-time
  - 5 new hireings 2015/16
  - Young faculty: 35 hired in the last decade
  - Two departments: Applied and Theoretical Informatics
  - Graduate Program: 50 supervisors
  - 30 admin staff
Faculty with diverse PhD backgrounds
- Brazil (26 - 4 Universities),
- France (14/5), Germany (8/5),
- UK (6/4), Scotland* (1)
- USA (4/3), Canada (2/2)
- Belgium (2/2), Sweden (1)
- Switzerland (2), Portugal (2/2)
- PostDocs: 15 US, 7+ FR, 5+ UK, 2 CAN, 3+ DE, IT, ND, BE.
Undergraduate and Graduate Courses

• Computer Science and Computer Engineering undergrad courses
  – Ranked best in Brazil by an independent newspaper (Folha SP)
  – Approx. 900 students

• (Post)graduate Programme in CS
  – Awarded the highest grade by the Ministry of Education
  – Among the top 5 programs in CS in Brazil
  – Currently: 300 students (MSc Research and PhD)
  – Graduated over 250 PhD and 1350 MSc students
Research

- Wide range of research areas
  - Artificial Intelligence and Robotics
  - Computer Graphics, Image Processing and HCI
  - Embedded Systems
  - High Performance Computing
  - Information Systems and Databases
  - Networks and Data Communication
  - Microelectronics/IC design
  - Software Engineering and Formal Methods
Scientific Contribution: top conferences

- VLDB  PODS
- IJCAI  AAAI  NIPS
- ICSE  ASE  FASE
- DAC  DATE
- SIGGRAPH  EUROGRAPHICS
- ESWEEK
- ITC
Innovation

- Birthplace of the IT industry in the state
- Prof. Juergen Rochol designed the first modem in Brazil
- First commercial Internet provider in the state
- Cradle of CEITEC: Government-owned semiconductors corporation.
- Patents deposited in the USPO.
Examples of Innovative Projects

Virtual surgery room for remote monitoring of surgeries and training (Roesler et al.)

Space radiation tolerant chip (Kastensmidt et al.)

Intelligent management of geological data (Abel et al.)
Innovation: CEI – Innovation/Incubation

- Currently with 12 companies
- 20 companies in the market
- 40% success rate (after 3 years)
- Participation/co-operation between postgrad and undergrad students + professors
Institute of Informatics (INF-UFRGS)

People

Innovation

Scientific contribution

Cooperation
Instituto de Informática

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