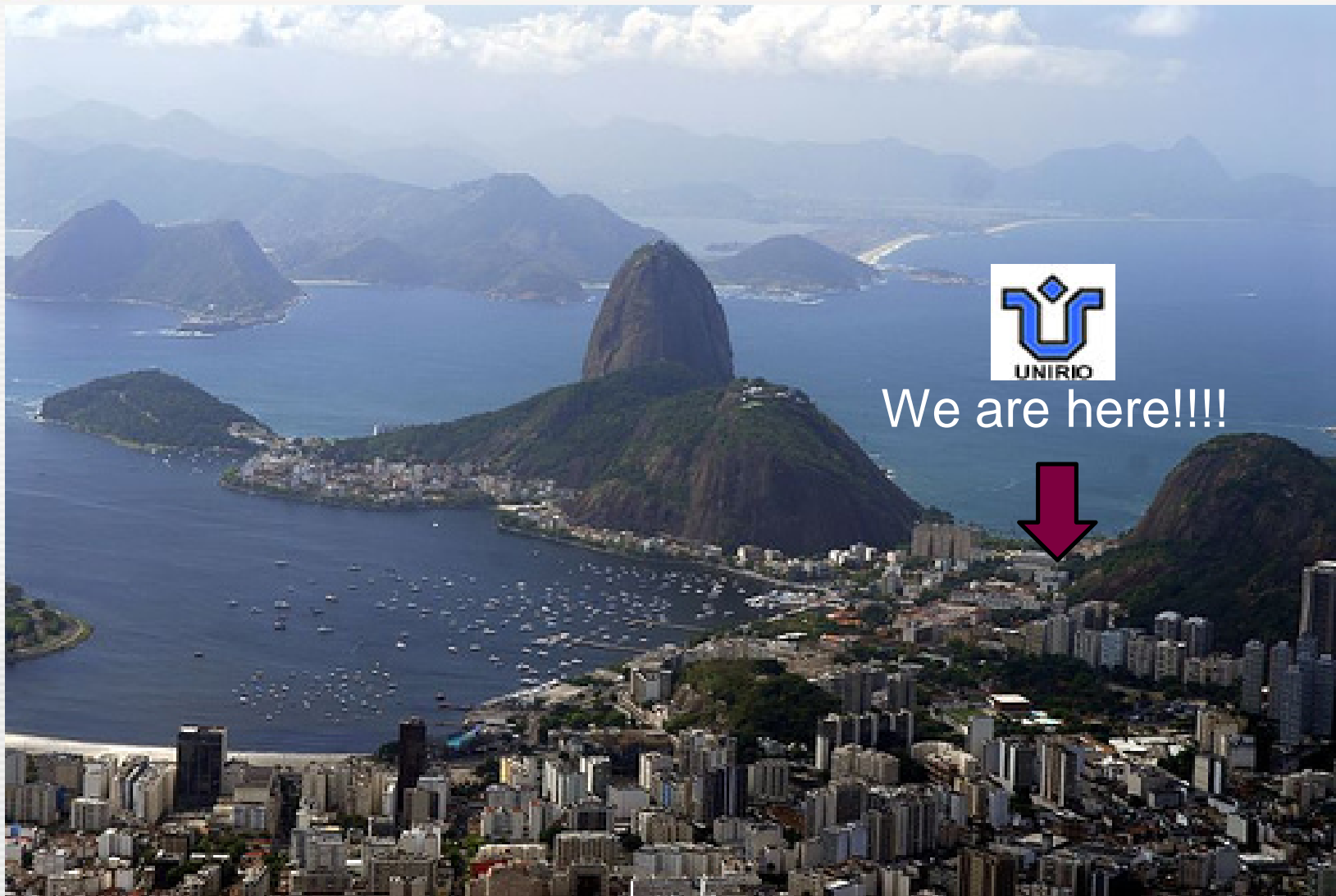


# IS Post-Graduate Education and Research in Brazil



Renata Araujo  
Márcio Barros  
Federal University of the Rio de Janeiro State  
(UNIRIO)  
Brazil





- Elaborated by the Brazilian Computer Science:
  - Non-profit organization gathering researchers, professionals and students
  - Computer Science Education Work Group
- 2 different classes of undergraduate courses:
  - CS as an end-activity – Computer Science / Computer Engineering
  - CS as a mean to solve non-CS problems – Information Systems
- IS curricula
  - Aim at preparing professionals able to perform:
    - Information management, planning and innovation projects
    - System development
    - Process modeling
    - Maintenance of IT infrastructure
  - And able to understand and solve organizational problems in different domains
  - Comprises knowledge on CS, IS and humanities

- IS Bachelor (since 1999)
  - Following the SBC IS Curricula
  - Evening classes
- IS Master (since 2006)
  - Reference?
- Research areas:
  - IS Modeling – Knowledge Representation and Reasoning
  - IS Development – Distributed Systems and Networks
  - IS Use – Business Supporting Systems
- Context
  - UNIRIO tradition in Arts and Health
  - Government evaluation program - levels 3 to 7
  - Rio de Janeiro concentrates other 5 PG in CS and the only 2 'top' PG in Brazil
  - Why another PG in Rio?
- Numbers:
  - 15 researchers + 3 (2009)
  - 100 candidates/year – 30/40 selected

- Applied research
  - Research and Practice in Technology Group (NP2Tec)
- Multidisciplinary research
  - Music repositories
  - Social Memory – Digital Heritage
- Case studies and work studies aligned with real world problems
  - The Base II Framework – regulation for adequacy of internationally active financial institutions
  - Adoption by the Brazilian Central Bank
  - Students had to follow the chronology of real events to build a supporting system

- IS is far from being considered as a research area in Brazil, due to:
  - Its multidisciplinary nature
  - Need for practice
- Challenges
  - Understanding of methodologies for social and applied research – ex. action-research – by the Brazilian CS community
  - Publications of multidisciplinary work
- PPGI – UNIRIO
  - 2 years of high demand
  - Opportunity to develop a distinct research in Brazil – national conference – SBSI, electronic journal - iSYS.