Informatics Education
Team

Elisabeth Wetzinger

Bernhard Standl-Gruber

Gerald Futschek
Working Areas

• Informatics Education
  
  • at university level
    • START Informatics project (Bernhard Standl-Gruber)
    • Programming MOOC (Elisabeth Wetzinger)
  
  • at school level (Gerald Futschek)
    • Bebras Challenge
    • Teacher Education
    • International Olympiad in Informatics (IOI)
Project „START Informatics“

• August 2016 – July 2018
• A project of the Faculty of Informatics
• Goals:
  • Improvement of quality of teaching in first year Informatics /Business Informatics
  • Increase of number of female students
• Qualitative and quantitative research
• Cooperation: Jens Gallenbacher (TU Darmstadt), Sabine Köszegi (Inst. of Management Science), Elisabeth Günther (quant. students evaluation)
• Expected results:
  • Status quo
  • Best practices handbook
  • Beginner’s Programming MOOC
Project MINT MOOCs

• Part of START Informatics
• Oct 2016 – Oct 2018
• Partners: TU Graz (Mathematics), Montan Uni Leoben (Mechanics), TU Vienna (Comp. Programming)
• Target group: Pupils that intend to study Informatics
• Cooperation with Stefan Podlipnik (Brückenkurs), Michael Reiter
• Programming language: Processing (Graphical output, Java syntax)
Bebras Challenge

- Bebras International Challenge on Informatics and Computational Thinking
- A series of challenging tasks to learn Computational Thinking, no pre-knowledge required
- 10th Challenge in Nov. 2016
  - 21000 participating pupils in Austria, 5 levels, grade 3 to grade 13
  - More than 1.5 Mill. participants worldwide

- Thur 2.3.2017 Biber Day at TU Wien
  - Awards for 2016 Challenge
  - Workshops:
    G Futschek: Computational Thinking, grades 3 – 6
    M Kampel: Was dein Internetauftritt alles verrät, grades 6 – 10
    H Kaufmann: Virtual Reality Lab, grades 10 - 13
Teacher Education

• Informatiktag
  yearly, end of Sept., cooperation with Uni Wien
• Computational Thinking Workshop
  16. Feb 2017, OCG & IBM

International Olympiad of Informatics (IOI)
since 1992: 3 gold, 5 silver, 23 bronze medals
Next preparation course at TU Wien, 27.2.2017 – 3.3.2017