Jacek Cichoń
Department of Computer Science
Faculty of Fundamental Problems of Technology
Wrocław University of Technology

March 2, 2016
Faculty of Fundamental Problems of Technology

Structure

Total employment: \( \pm 180 \) people
- Department of Physics
- Department of Bioengineering
- Department of Computer Science
  - 5 professors
  - 19 PhD
  - WWW site: cs.pwr.edu.pl
Our students

I stage
- First year: 120 - 150 students
- Second year: ±85% students
- At end: ±70% students
- Length: $3\frac{1}{2}$ years
- Recruitment (this year): 6.5 students/one place; the best result in Wroclaw

II stage
- First year: ±45 students
- At end: ±30 students
- Length: $1\frac{1}{2}$ years
- Recruitment: mostly: our graduates of the first degree (80%)
The specificity of our degree program (I stage)

**The main direction**
ALGORITHMICs: the study properties of algorithms, computational, memory and communication complexity

**The main course**
Data Structures and Algorithms

**Formal background**
Mathematical Analysis, Algebra, Logic, Probability, Discrete Mathematics, a lot of courses for students choice
The specificity of our degree program (I stage)

Practical skills

- Methods: classical programming, elements of distributed programming, elements of cloud computing, elements of computer security
- Databases: theory, design; MySql, PostgreSQL, MSSQL
- Formal Languages and Compilers
- other: modern WWW technologies (HTML5, node.js), computer graphics
The specificity of our degree program (II stage)

Specialization: Algorithmic
Analysis of Algorithms, Probabilistic Methods, Optimization, Cryptography

Specialization: Computer Security
Cryptography, System Security, Embedded Systems
The flow of students

(shown flows are approximate)
Thanks you

jacek.cichon@pwr.edu.pl