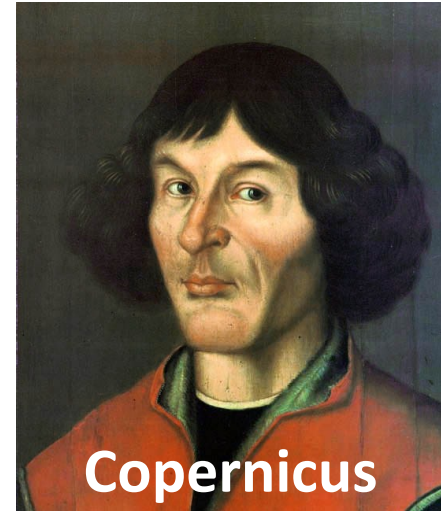


The UniFE research unit

Marco Gavanelli

University of Ferrara

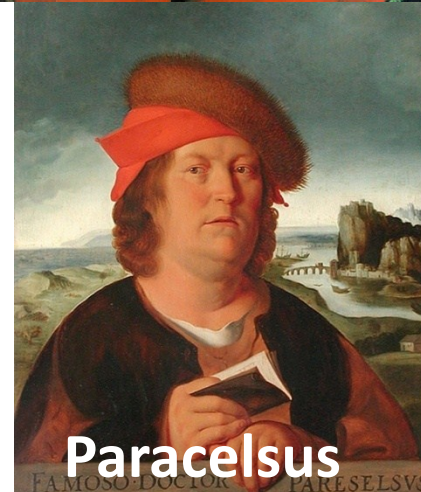
- Founded in 1391
- 8 Faculties: Architecture, Economics, **Engineering**, Law, Literature, Medicine, Pharmacy, Science
- About 12,000 students



Copernicus



Fallopius



Paracelsus



Pico della
Mirandola



Università di Ferrara

fondata nel 1391

Department of Engineering

- Founded in 1996
- 3 areas: Civil, Mechanics and Information Engineering
- Teaching
 - 3 BSc degrees, 4 MSc degrees, PhD
 - About 2,200 students
- Research
 - two anechoic chambers, computer cluster, etc.



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UniFE research unit



- Marco Gavanelli
 - Constraint Logic Programming
 - Abductive Logic Programming



- Fabrizio Riguzzi
 - Machine Learning
 - Probabilistic Logic Programming



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Recent work related to the project (Marco Gavanelli)

- Environmental assessment of plans, Energy plan of RER (with UniBO, ARPA, RER)
- Placing of biomass plants considering sustainability (with UniBO, ARPA)
- CLP/optimization for Hydraulic Engineering
 - optimal design of hydraulic networks
 - spread of contaminants in hydraulic networks
- CLP (and ALP) with recursion through optimization for games
- Scheduling of nurses in home health care (with AUSL FE)
- Scheduling of carpooling (not yet started), with AMI FE



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Recent work related to the project (Fabrizio Riguzzi)

- Probabilistic logic programming
 - Development of efficient inference techniques
 - Application to Strategic Environmental Assessment
- Machine learning from uncertain and relational data
 - Development of parameter and structure learning algorithms



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