



# Robotics: Introduction to AI in robotics

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# Structure of today's lecture

- ▶ Final organization
- ▶ Martin Cifka: Pose estimation from images
  - ▶ Studied at Charles University
  - ▶ From 2024, Ph.D. student at CIIRC/FEL ČVUT
- ▶ Vladimír Petřík: Temporal and Physical consistency in pose estimation
- ▶ Georgy Ponimatin: Pose estimation in unknown environment
  - ▶ Studied at Faculty of Nuclear Sciences and Physical Engineering
  - ▶ Spend several years at ENPC in Paris
  - ▶ From 2024, Ph.D. student at CIIRC/FEL ČVUT
- ▶ Martin Sedláček: Large models based robot control
  - ▶ Studies at University of Amsterdam
  - ▶ Research based master program
  - ▶ Starting Ph.D. in 2025



## Test next year

- ▶ Dynamic analysis of manipulators
- ▶ Kinematics of closed kinematic chains



# Final work

- ▶ Testing desks available at CW
- ▶ (Soft) Deadline for submission is 05.01.2024
  - ▶ report and code finalized in advance
  - ▶ -1p every 72h
- ▶ Necessary to evaluate before the exam



# Final work examples



# Exams

- ▶ Dates are published in KOS
- ▶ Written exam - example on course web
  - ▶ Theoretical questions
  - ▶ Computation with transformations
  - ▶ Kinematics of open kinematic chains

