

Introduction to Computer Vision – 22928

**Final Project – 2025a**

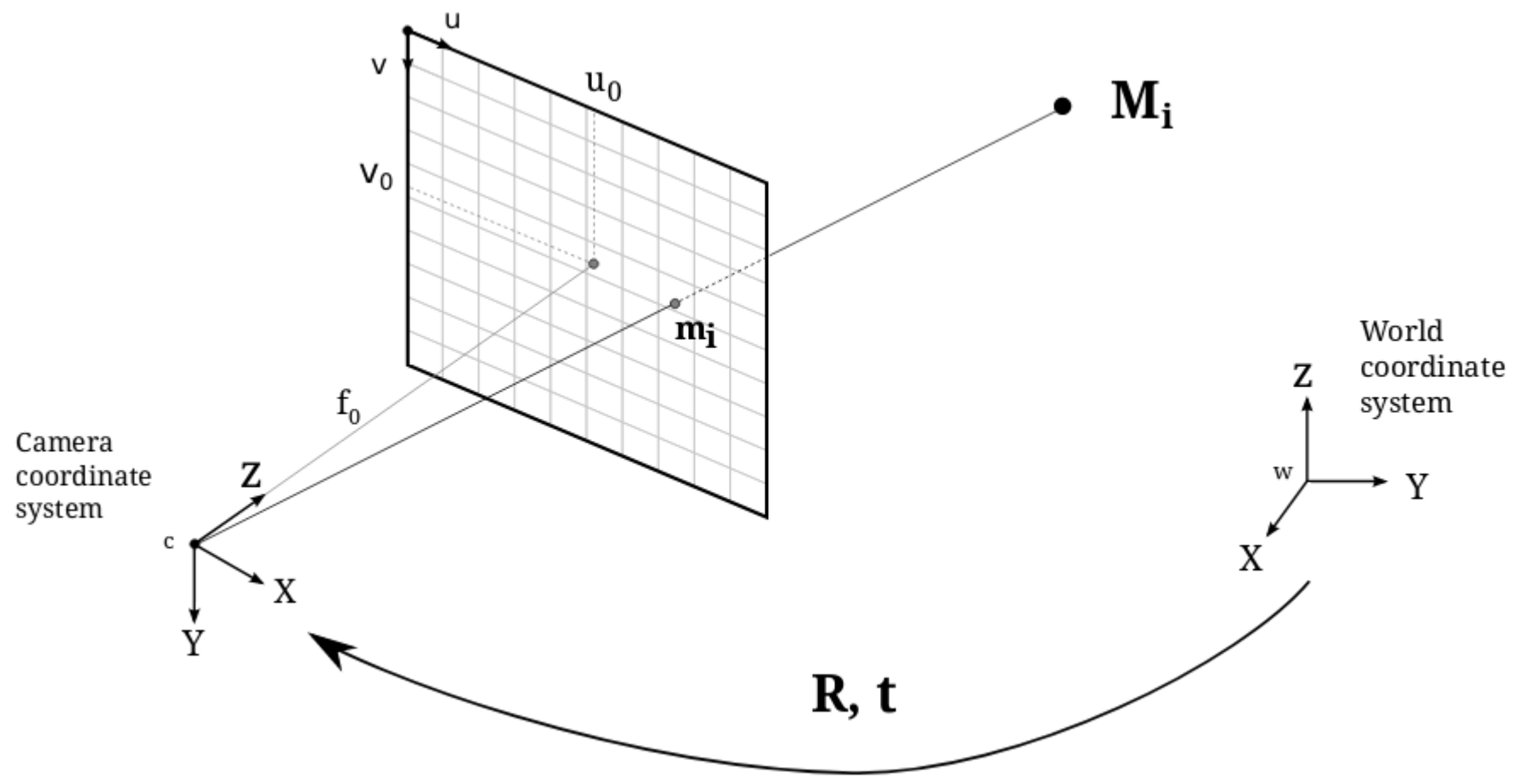
# Image Matching Challenge

Submission date – 6/2/2025









# The challenge

- The goal of the contest is to estimate the relative pose between two images.
- Link to join the challenge -
  - <https://www.kaggle.com/t/91aa2a425bc34732a405e7c79c2ec102>
- Develop a model, submit your solution.
- Document it and report.

# Where to start

- <https://www.kaggle.com/t/91aa2a425bc34732a405e7c79c2ec102>
- Structure-from-motion (sift+ransac+...)
- Continue from there ...

# Develop

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- Use any of the methods learned in class.
- Use any method you can find a description for in any paper.

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- Implement it yourself in **Python**
  - Including OpenCV and scikit-learn
  - Any other package need to be approved
- **DO NOT USE UNAUTHORIZED CODE**

# Document - Report

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- Write a detailed document explaining your method:
    - No more than 10 pages,
    - PDF.
  - Show results
- 
- Code must be stand alone (and running!).
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- Pickle file with the final model.
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- Document must cover all aspects of your work.



# Late submission

- Expected to be submitted in time.
- Otherwise 2 points per late day.
- Up to 40 points == 20 days late.
- Later than that – the course is failed :(

# Grading

- Accuracy (how well did you do)
- Performance (how fast do you do it)
- Novelty (how new is your idea)
  - May build on existing ideas and still be novel
- Document and code organization
- Final grade is on a curve - if you are worst (your method performs worst), you'll get the worst grade and it will be low

**+5 bonus to the  
most up-voted  
notebook**

# Good Luck!!

