



UNIVERSITÄT
ZU KÖLN



Computer Vision

Prof. Dr. rer. nat. Katarzyna Bozek

Journal Club

- 1. Paper: “[An Iterative Image Registration Technique with an Application to Stereo Vision](#)”
 - Presents an iterative method for precise image alignment, particularly useful for stereo vision systems
 - Introduces an algorithm that optimizes transformation parameters, enhancing stereo vision applications like depth estimation
- 2. Paper: “[Rapid object detection using a boosted cascade of simple features](#)”
 - Depicts a fast object detection method using a boosted cascade of simple features
 - Demonstrates significant improvements in detection speed and accuracy, particularly for real-time applications
- Presentations will take place on 13.06.2024 (Thursday)

Assignment 3

- In this assignment you will implement a Bag Of Visual Words classifier for the Caltech101 dataset, using Histogram of Oriented Gradients as keypoint descriptor
- Deadline: 19.06 23:59

Project Presentation

- We will present possible projects tomorrow
- You have up to one week to let us know which project(s) you would like to work on
- Please indicate at least 3 projects and rank them
- In general, it is possible for 2 groups to work on the same project as long as their approaches differ enough
- **The projects are the final examinations and are mandatory to pass this course!**