

# Assignment 2

Assoc. Prof. Dr. Klaus Schöffmann

SS 2021

# Agglomerative Keyframe Clustering

- Implement the ***Hierarchical Clustering*** approach described in Slide 5.26 (single-linkage) for the 181 keyframes provided for everest.mp4 (uniformly sampled at every second)
  - everest1s-181keyframes.zip
  - you can either use the small "\*\_key.jpg" or large "\*\_highkey.jpg" version
- Use a content descriptor of your choice (e.g., color histogram) to represent every keyframe
- Start with 181 clusters and iterate until you have only one cluster
- Visualize the results (e.g., by using an HTML page) for the situation with
  - 150, 50, 30, 10, 5 clusters

# Deadline for Assignment 2

- The solution to this assignment is due on May 10, 2021
- At the same day we will discuss it at 10:00 in a virtual meeting
- Please upload:
  - source code of your project
  - visualization of your results (e.g., HTML page)