Computer Vision - Lecture 8 Sliding-Window based Object Detection 21.11.2016

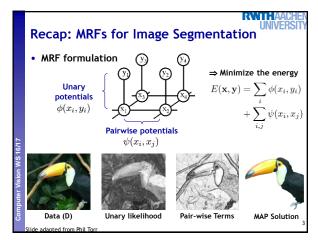
Bastian Leibe RWTH Aachen http://www.vision.rwth-aachen.de

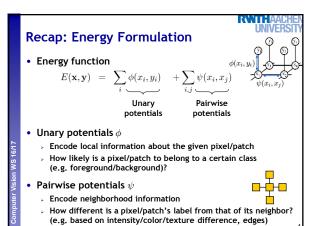
leibe@vision.rwth-aachen.de

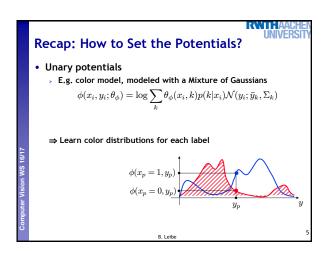
Course Outline

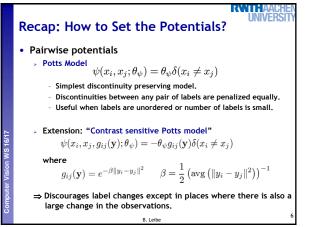
- Image Processing Basics
- Segmentation
 - > Segmentation and Grouping
 - > Segmentation as Energy Minimization
- · Recognition & Categorization
 - Sliding-Window Object Detection
 - Image Classification
- Local Features & Matching
- 3D Reconstruction
- Motion and Tracking

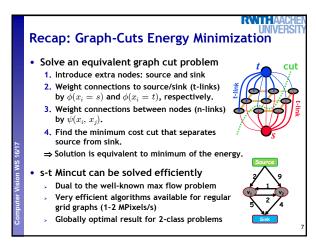
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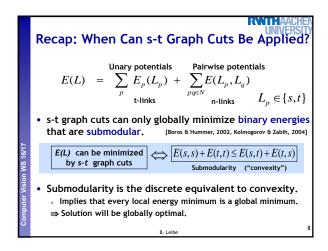


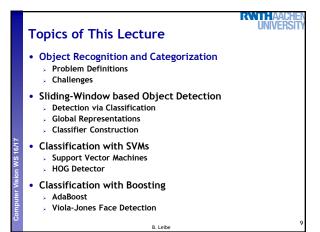


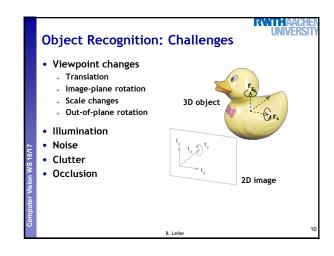


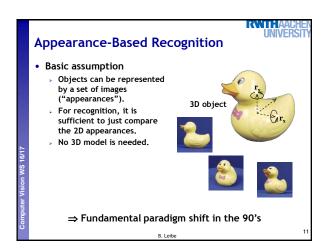


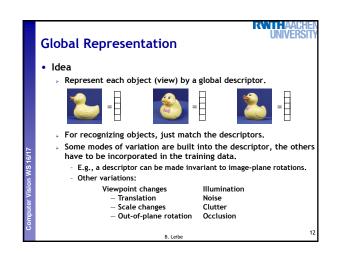


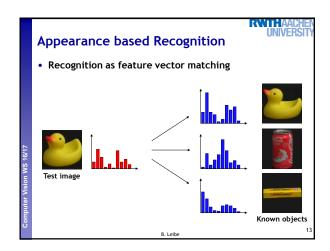


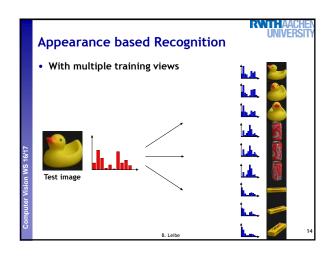


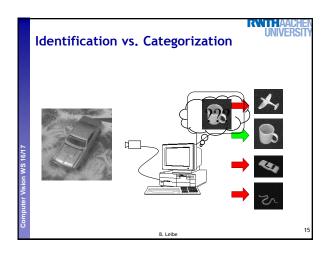


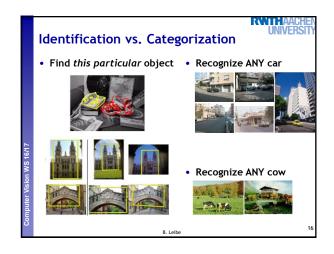




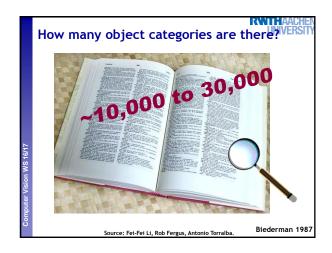


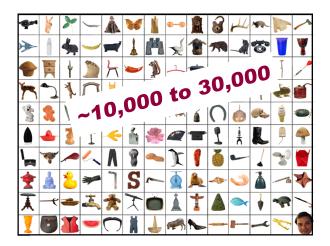


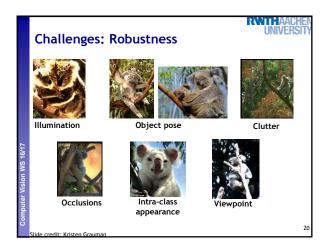




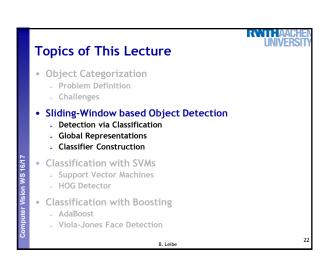


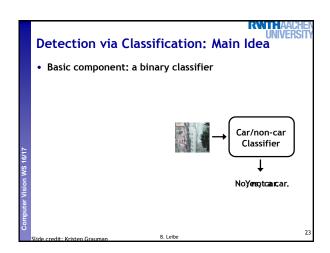


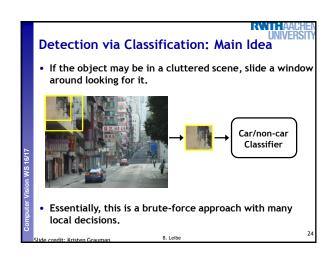


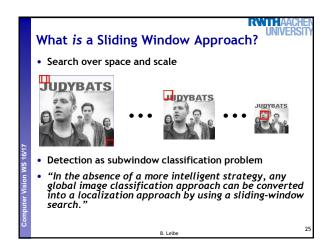


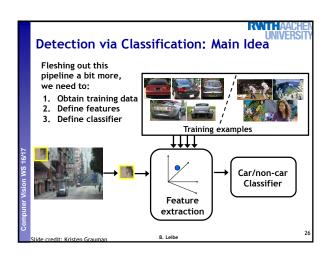


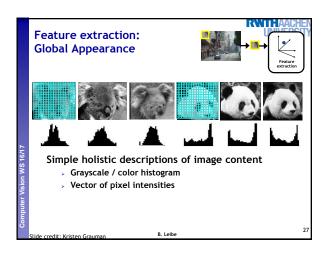


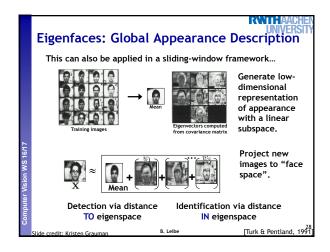


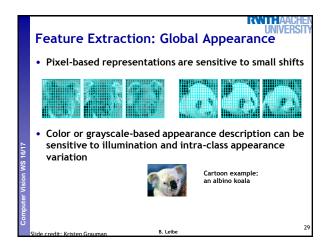


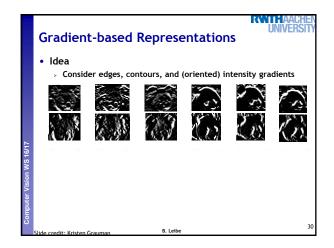


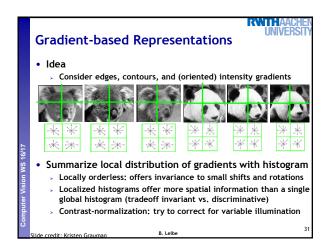


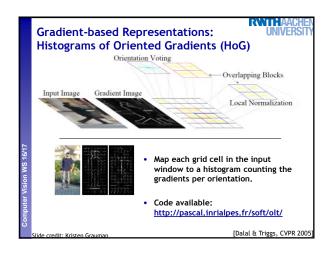


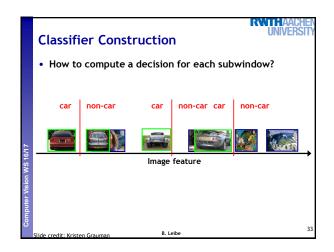


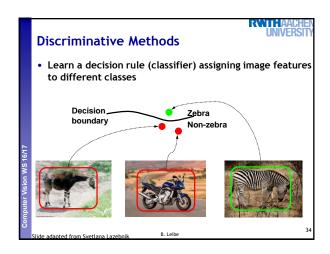


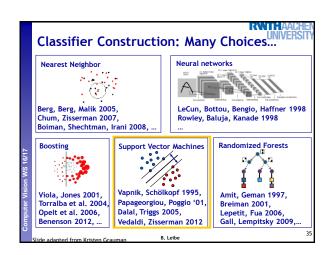


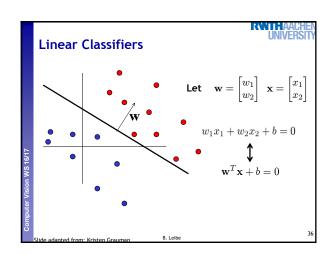


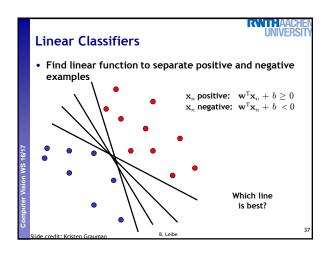


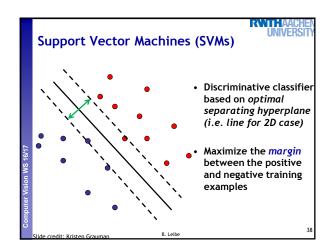


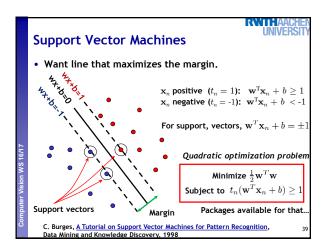


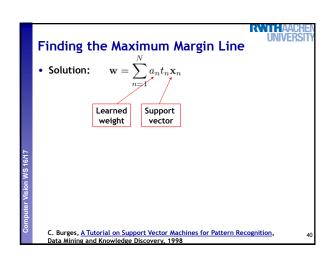


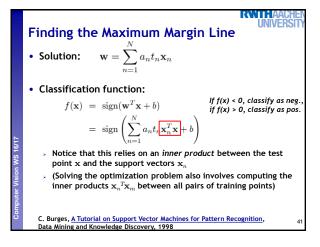


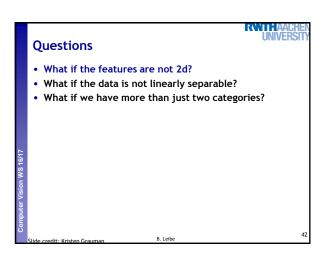












Questions • What if the features are not 2d? • Generalizes to d-dimensions - replace line with "hyperplane" • What if the data is not linearly separable? • What if we have more than just two categories?

