



Part-Based Models for People and Object Detection

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Abstract

Most state-of-the-art models for people and object detection belong to the class of part-based models. They are modeling both the components (= parts) of individual objects as well as the topological layout of those components. After motivating part-based models for object class detection we will review and discuss a variety of state-of-the-art models for people and object detection. While different models share a range of properties they also differ in various aspects. This allows to discuss and better understand their respective strengths and weaknesses and also serves as a basis for future work.

Keywords: object class modeling and detection, human detection, human pose estimation