

1 Models

The following section covers the theory behind the various models that will be introduced in Section ??.

1.1 Mask R-CNN

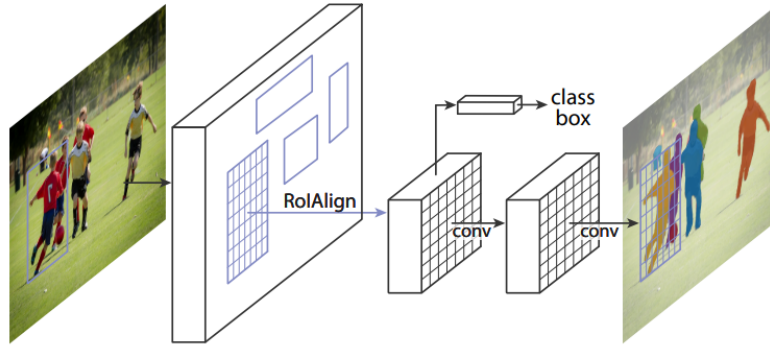


Figure 1: The Mask R-CNN framework for instance segmentation [1].

When we will be performing the pose estimation in Section ??, our developed methods will be a variation of the *Mask R-CNN*, introduced by He *et al.* in 2018 [1]. The following subsection explains the architecture of the Mask R-CNN and is based on an interpretation of He *et al.* [1] and Zhang [2].

1.2 UniPose-LSTM

1.3 DeciWatch