

The description on the learning of location detection and rain removal as a multi-task learning setup is stressed for supporting the lightweight shared-encoder design. However, the description of “multi-task” is not proper and we will just call it as “joint learning of location and rain removal” for easier understanding. On the other hand, the location detection sub-network in our design is highly different from the one in JORDER and is significant because it is used for (1) constructing the novel regularization term (attention-consistency constraint) in Stage-II and (2) learning the where-branch in Stage-III. Both designs have been demonstrated to improve the deraining results by a very large margin as evidenced by the elaborate ablation study. Also see Sec 1.1 on illustrating the contribution of the overall network design.