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PanNet: A deep network architecture for pan-sharpening. Junfeng Yang Xueyang Fu (co-first author) Yuwen Hu Yue Huang Xinghao Ding John Paisley IEEE International Conference on Computer Vision (ICCV), 2017 Abstract: We propose a deep network architecture for the pan-sharpening problem called PanNet. We incorporate domain-specific knowledge to design our PanNet architecture by focusing on the two aims of the pan-sharpening problem: spectral and spatial preservation.

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The normal goal of a deep network is to learn a set of features. The first layer of a deep network learns how to reconstruct the original dataset. The subsequent layers learn how to reconstruct the probability distributions of the activations of the previous layer. The output layer of a neural network is tied to the overall objective. This is typically logistic regression, with the number of features equal to the number of inputs of the final layer, and the number of outputs equal to the ...

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The later work of Yang et al., PanNet, incorporated a ResNet architecture used for classification as their backbone network where a residual connection allows the network to focus on preserving the...

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tion, PanNet [16] incorporated the ResNet architecture with a smaller number of filter parameters to perform pan-sharpening. Recently, Lanaras et al. [19] employed the state-of-the-art SR network, EDSR [24], and proposed a moderately deep network version (DSen2) and a very deep network version (VDSen2) for pan-sharpening.