Pannet A Deep Network Architecture For Pan Sharpening

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Pannet A Deep Network Architecture
We propose a deep network architecture for the pan-sharpening problem called PanNet. We incorporate domain-specific knowledge to design our PanNet architec-ture by focusing on the two aims of the pan-sharpening problem: spectral and spatial preservation. For spectral preservation, we add up-sampled multispectral images to

PanNet: A Deep Network Architecture for Pan-Sharpening
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 network used in this study is also a three-layer CNN similar to SRCNN. Yang et al. presented a deep network architecture named PanNet for pansharpening, in which domain-knowledge is...

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We describe a single convolutional neural network architecture that, given a sentence, outputs a host of language processing predictions: part-of-speech tags, chunks, named entity tags, semantic roles, semantically similar words and the likelihood that the sentence makes sense (grammatically

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Wenlei Wu, Zhaohang Lin, Xinghao Ding and Yue Huang. A Simple Convolutional Transfer Neural Networks in Vision Tasks, ICONIP 2017. Junfeng Yang, Xueyang Fu, Yuwen Hu, Yue Huang, Xinghao Ding, John Paisley, PanNet: A deep network architecture for pan-sharpening, IEEE ICCV 2017.

Yue Huang | XMU
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presented a deep network architecture named PanNet for pan-sharpening, in which domain-knowledge is incorporated to improve the performance of the PanNet.

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The VGG networks, along with the earlier AlexNet from 2012, follow the now archetypal layout of basic conv nets: a series of convolutional, max-pooling, and activation layers before some fully-connected classification layers at the end. MobileNet is essentially a streamlined version of the Xception architecture optimized for mobile applications.

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Implementation of "PanNet: A deep network architecture for pan-sharpening" Python 5 1 Updated Apr 30, 2019. gjy3035 / Awesome-Crowd-Counting Awesome Crowd Counting 892 220 Updated Dec 25, 2019. val-iisc / crowd-counting-scnn This project is an implementation of the crowd counting model proposed in our CVPR 2017 paper - Switching Convolutional ...

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In this paper, we propose a novel gradient-based deep network prior for pan-sharpening. Rather than training an end-to-end network in pixel domain, the proposed gradient-based deep network prior is integrated into model-based optimization, which takes advantage of their respective merits for pan-sharpening.

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PanNet: A deep network architecture for pan-sharpening. J Yang, X Fu (co-first author), Y Hu, Y Huang, X Ding, J Paisley. International Conference on Computer Vision (ICCV), 2017. 76: 2017: Remote sensing image enhancement using regularized-histogram equalization and DCT.

Xueyang Fu (□□□) - Google Scholar
Multispectral pan-sharpening aims at producing a high resolution (HR) multispectral (MS) image in both spatial and spectral domains by fusing a panchromatic (PAN) image and a corresponding MS image. In this paper, we propose a novel dual-channel network (DCNet) framework for MS pan-sharpening. In our DCNet, the dual-channel backbone involves a spatial channel to capture spatial information ...