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Supervised super resolution to improve the resolution of hyperspectral images classification maps

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Hyperspectral imaging is a continuously growing area of remote sensing. Hyperspectral data provide a wide spectral range, coupled with a very high spectral resolution, and are suitable for detection and classification of surfaces and chemical elements in the observed image. The main problem with hyperspectral data for these applications is the (relatively) low spatial resolution, which can ...

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In spite of this, Deep Learning techniques have proven to be effective for Super Resolution. This blog primarily focuses on providing an introduction to performing Super Resolution using Deep Learning by using Supervised training methods. Some important loss functions and metrics are also discussed.

~~An Introduction to Super Resolution using Deep Learning ...~~

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resolution enables robust long-term perception, prediction, and planning, especially at higher speeds. Furthermore, simply operating at higher image resolutions can be shown to improve overall disparity estimation accuracy (Section IV). We utilize this intuition and propose a deep architecture leveraging super-resolution techniques to improve monocular

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In this story, a very classical super resolution technique, Super-Resolution Convolutional Neural Network (SRCNN) [1-2], is reviewed. In deep learning or convolutional neural network (CNN), we...

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The super-resolution process synthesizes sub-pixel information in imagery to increase the resolution of the image. Typical synthesis techniques include: interpolation of nearby pixels within the ...

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High Resolution(HR) Image: Pixel density within an image is large, hence it offers a lot of details. A technique which is used to reconstruct a high-resolution image from one or many low-resolution images by restoring the high-frequency details is called as "Super-Resolution". Low-Resolution Image. Original High-Resolution Image

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In this paper, a new feature level super-resolution method is proposed to improve the small object detection performance of the detection network. This method is suitable for target detection algorithm with ROI pooling. Small object detection on VOC and coco has a maximum of 5 ~ 6% map improvement, while small object detection on Tsinghua Tencent 100k has a maximum F1 improvement of about 9 points

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~~Practical, supervised feature level super resolution ...~~

Dual Super-Resolution Learning for Semantic Segmentation ... significantly improve the accuracy under different resolutions, especially for low-resolutions, thus can significantly ... main kinds of supervised image super-resolution methods. (1) Pre-upsampling SR [7, 6] applies a traditional upsam- ...

~~Dual Super Resolution Learning for Semantic Segmentation~~

Deep Learning Super Resolution. The standard approach to Super-Resolution using Deep Learning or Convolution Neural

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networks (CNNs) is to use a fully supervised approach where a low-resolution image is processed by a network comprising convolutional and up-sampling layers to produce a high-resolution image.

~~Open Source meets Super Resolution, part 1~~

In this paper, a new supervised technique exploiting the advantages of both probabilistic classifiers and spectral unmixing algorithms is proposed, in order to produce land cover maps of improved spatial resolution. The method is in three steps.

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Download PDF Abstract: Most current super-resolution methods rely on low and high resolution image pairs to train a network in a fully supervised manner. However, such image pairs are not available in real-world applications. Instead of directly addressing this problem, most works employ the popular bicubic downsampling strategy to artificially generate a corresponding low resolution image.

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