# Supervised Super Resolution To Improve The Resolution Of

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PathSRGAN: Multi-Supervised Super-Resolution for ...
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Review: SRCNN (Super Resolution). In this story, a very ...
PlugNet: Degradation Aware Scene Text Recognition Supervised by a Pluggable Super-Resolution Unit Yongqiang Mou1, Lei Tan 2, Hui Yang1, Jingying Chen , Leyuan Liu , Rui Yan 1, and Yaohong Huang 1 AI-Labs, GuangZhou Image Data Technology Co., Ltd., China yongqiang.mou@gmail.com, huiyang865@hotmail.com, reeyree@163.com,

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In this paper, a new feature level super-resolution method is proposed to improve the detection performance of small objects in the detection network, which is suitable for the 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 of about 9 points of F1 ...

Supervised super-resolution to improve the resolution of ...
Supervised super resolution to improve the resolution of hyperspectral images classi cation maps Alberto Villaa,b, Jocelyn Chanussota, Jon Atli Benediktssonb, Christian Jutten a a GIPSA-lab, Signal & Image Dept., Grenoble Institute of Technology - INP, France 961 rue de la Houille Blanche, 38402 Grenoble Cedex, France

Unsupervised Learning for Real-World Super-Resolution
In recent years, more and more methods apply deep learning to improve imaging resolution and increase imaging speed. Most super-resolution microscopy methods [10] - [12] implement on 2D images ...

PathSRGAN: Multi-Supervised Super-Resolution for ...
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.

Using Super Resolution to Improve Satellite Imagery for ...
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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Unsupervised Learning for Real-World Super-Resolution ...
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...

Practical, supervised feature level super-resolution ...
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

Supervised super resolution to improve the resolution of ...
For super-resolution, we train it to a point such that the resulting image it creates closely resembles the original image when they are both downsampled. There exist multiple super-resolution images that could have produced each low-resolution image to increase crop cultivation.

Supervised super resolution to improve the resolution of ...
vised methods, but operate in low resolution only. We show that high resolution is key towards high-?delity self-supervised monocular depth prediction. Inspired by recent deep learning methods for Single-Image Super-Resolution, we propose a sub-pixel convolutional layer extension for depth super-resolution

SuperDepth: Self-Supervised, Super-Resolved Monocular ...
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Supervised Super Resolution To Improve
Supervised super resolution to improve the resolution of hyperspectral images classification maps

Unsupervised Image Super-Resolution With an Indirect ...
1 Deeply Supervised Depth Map Super-Resolution as Novel View Synthesis Xibin Song, Yuchao Dai, and Xueying Qin Abstract—Deep convolutional neural network (DCNN) has been successfully applied to depth map super-resolution and outperforms existing methods by a wide margin.

Supervised super-resolution to improve the resolution of ...
Unsupervised Image Super-Resolution with an Indirect Supervised Path Shuaijun Chen1†, Zhen Han 1,2†, Enyan Dai1†, Xu Jia1?, Ziluan Liu 3, Xing Liu3, Xueyi Zou1, Chunjing Xu1, Jianzhuang Liu1, Qi Tian1 1Huawei Noah's Ark Lab 2Renmin University of China 3Huawei Consumer Business Group {chenshuaijun, x.jia, liuziluan, liuxing67, zouxueyi, xuchunjing, tian.qi1}@huawei.com

PlugNet: Degradation Aware Scene Text Recognition ...
22 October 2010 Supervised super-resolution to improve the resolution of hyperspectral images classification maps. Alberto Villa, Jocelyn Chanussot, Jon Atli Benediktsson, Christian Jutten. Author Affiliations + Proceedings Volume 7830, Image and Signal Processing for Remote Sensing XVI; 78300J ...

1 Deeply Supervised Depth Map Super-Resolution as Novel ...
Unsupervised Learning for Real-World Super-Resolution Andreas Lugmayr Martin Danelljan Radu Timofte CVL, ETH Zurich, Switzerland¨ 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.

Practical, supervised feature level super resolution ...
Single Image Super-Resolution via a Holistic Attention Network. ECCV 2020. [86] Majed El Helou, Ruofan Zhou, Sabine Süsstrunk. Stochastic Frequency Masking to Improve Super-Resolution and Denoising Networks. ECCV 2020. [87] Xi Cheng, Zhenyong Fu, Jian Yang. Stochastic Frequency Masking to Improve Super-Resolution and Denoising Networks.