



Rocking machine wireless image transmission agent

What is wireless image transmission model for semantic communication?

Expanding on prior research, study introduces the Wireless Image Transmission model for semantic communication, known as the WITT (Wireless Image Transmission Transformer) model. This model is specifically developed for transmitting high-resolution images by leveraging convolutional neural networks (CNNs).

Is Witt a good pretrain for wireless image transmission?

As a result, extensive experiments verify that our WITT attains better performance for different image resolutions, distortion metrics, and channel conditions. All pretrain models can be found in Baidu netdisk (password: hxzo) or Google drive. The overall architecture of the proposed WITT scheme for wireless image transmission.

Can a wireless image transmission system be enhanced with multi-level semantic information?

Another study proposes a wireless image transmission system enhanced with multi-level semantic information, utilizing an end-to-end training approach. The encoder of this system consists of a multi-level semantic feature extractor and a joint semantic channel encoder.

What is jscc technique for wireless image transmission?

The proposed JSCC technique for wireless image transmission with consistent quantification level. The source and channel codecs are represented by neural networks and trained simultaneously. 4.3. Performance metrics

Recent research on joint source channel coding (JSCC) for wireless communications has achieved great success owing to the employment of deep learning (DL). However, the existing ...

The rapid development of artificial intelligence has significantly advanced semantic communications, particularly in wireless image transmission. However, most existing ...

Over half a century on, Stanley Kubrick's A Clockwork Orange remains a source of controversy and discussion despite being largely embargoed for nearly three of those five ...

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Semantic communication is considered the future of mobile communication, which aims to transmit data beyond Shannon's theorem of communications by transmitting the semantic ...

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networks; other apparatus for the transmission or reception of voice, images or other ...

In the era of 6G, with compelling visions of intelligent transportation systems and digital twins, remote surveillance is poised to become a ubiquitous practice. Substantial data ...

Abstract Semantic-oriented communication has been considered a promising method to boost bandwidth efficiency by only transmitting the semantics of the data. In this ...

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Sulfates are chemical surfactants that are used as effective detergents and cleaning agents. The most common sulfates of concern in consumer products are sodium ...

Over half a century on, Stanley Kubrick's A Clockwork Orange remains a source of controversy and discussion despite being largely ...

To tackle this, the proposed WITT employs Swin Transformers as a more capable backbone to extract long-range information. Different from ViTs in image classification tasks, WITT is highly ...

Transmission electron microscopy (TEM) is defined as a technique that forms a transmission image by transmitting a beam of electrons through an ultrathin specimen, typically less than ...

Semantic-oriented communication has been considered a promising method to boost bandwidth efficiency by only transmitting the semantics of the data. In this paper, we propose a multi-level ...

Image processing includes subareas of image enhancement, image restoration, image compression, and image analysis (da Silva & Mendonça, 2005). Before image analysis, which ...

Semantic communication is an increasingly popular framework for wireless image transmission due to its high communication efficiency. With the aid of the joint-source-and ...

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In the realm of wireless image transmission, numerous efforts have been made to integrate deep learning technologies to improve transmission efficiency [3]. The main idea is to employ a DNN ...

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