# SCI-Preparing

## A

## B

### 帮助

01 the fused image assists the physician in disease diagnosis for effective treatment planning

02 However, the NN based method relies too much on a large number of parameters manually set, which is not conducive to the adaptive implementation of the fusion process

### 包含

Medical image fusion encompasses a broad range of general image fusion techniques to integrate complementary information from different modalities of medical images.

### 比较

the speed of our improved CNN method is much faster than that of comparison algorithms which have good fusion quality

### 不好/不完美

it must avoid imperfect states

### 不够

However, when very limited labeled information is available,most of these spectral classifiers are still not able to obtain satisfactory classification accuracies

### 不能

The main defect of the NSCT-SF-PCNN and NSCT-RPCNN methods is their lower ability in detail extraction.

## C

## D

## E

## F

### 分辨率

Similarly, in the remote sensing applications, multispectral (MS) images, which have low resolution and high spectral density are fused with panchromatic (PAN) images possessing high resolution and low spectral density

### 分成

Then,the dimension reduced image is partitioned into several subsets of adjacent bands.

### 丰富的

The rich spectral information of hyperspectral images can be used for accurate classification of different materials

### 方法

PROPOSED APPROACH

## G

### 改进

Results demonstrate a significant improvement of compressed MR image reconstruction on four medical MRI datasets

### 更好的

In order to address the deficiencies of MSTs based methods and obtain an encouraging fusion performance

### 给出

draws the conclusion giving a brief summary and critique of the findings.

## H

### 合成/混合

01 The fusion process combines multi-modal images to incur（招致） a single image with excellent quality, retaining the information of original images

02 This paper proposes a multi-modal medical image fusion through a weighted blending of high-frequency subbands of nonsubsampled shearlet transform (NSST) domain via chaotic grey wolf optimization algorithm

### 划分

Region partition algorithm

### 很好地

some important information (e.g.,edge) in the MR-T1 source image is not well preserved in the fused images of these methods

## I

### 邻近的

Then, the dimension reduced image is partitioned into several subsets of adjacent bands

## J

### 加权

This paper proposes a multi-modal medical image fusion through a weighted blending of high-frequency subbands of nonsubsampled shearlet transform (NSST) domain via chaotic grey wolf optimization algorithm

### 紧支撑

compactly supported

### 据我们所知

As far as our knowledge is concerned

### 结构

The remainder of the manuscript has been structured as follows

### 减少

CTD-SR methods lose a large amount of energy,leading to a significant decrease in the intensity and contrast in many regions

## K

## L

### 良好的效果

01 The experiment results show that the proposed method achieves competitive performance in both the image quantity and computational costs

02 demonstrated very good performances in terms of high classification accuracies

03 the proposed IFRF method shows outstanding performance in terms of classification accuracy and computational efficiency

04 demonstrate the superiority of the proposed method over traditional multi-focus image fusion methods

## M

### 目的

In order to meet these objectives, the fused result should meet the following requirements

### 模糊

Many details are blurred or even lost in the fused images of these two methods

## N

### 能够

Compressed sensing (CS) allows for good reconstruction even when the signal is significantly subsampled compared to the Nyquist sampling

## O

## P

### 评价

draws the conclusion giving a brief summary and critique of the findings.

*Evaluation Metrics*

## Q

### 潜力

Compressed sensing has shown great potential in speeding up MR imaging by undersampling

### 全面地

In this work, we comprehensively survey the existing methods and applications for the fusion of infrared and visible images.

### 确实是

This demonstrates that IID is indeed an effective way for feature extraction of hyperspectral images.

## R

## S

### 深刻

Finally, we conclude with the current status of infrared and visible image fusion and deliver insightful discussions

### 实验表明

Experimental results show that

### 说明

This demonstrates that IID is indeed an effective way for feature extraction of hyperspectral images.

### 实际的

The rich spectral information of hyperspectral images can be used for accurate classification of different materials and thus has been widely used in many practical applications such as monitoring of the environment and precision agriculture

## U

## V

## W

### 无法替代的角色

medical imaging plays an irreplaceable role in modern medical diagnosis and treatment

### 文献

It is observed from the literature that the feature level image fusion technique can be further classified into machine learning, region based and similarity matching to content based

### 维度

Then,the dimension reduced image is partitioned into several subsets of adjacent bands.

## X

### 新的

a novel feature extraction method based on intrinsic image decomposition (IID) is proposed for hyperspectral image classification

### 也就是说

Namely, the MRI image can be represented using a suitable sparsifying transform

### 优于

The experimental results show that our algorithm is superior to some state-of-the-art dictionary learning based techniques in both subjective visual effects and objective evaluation criteria

### 应用

Most of the fusion applications need analysis of multiple images of the same scene for improved results

### 显著

CTD-SR methods lose a large amount of energy,leading to a significant decrease in the intensity and contrast in many regions

## Y

### 原理图

Schematic of the proposed feature extraction method

### 验证

To verify the effectiveness of the proposed method

## Z

### 重要的

01 Medical image fusion has emerged as an impressive technique in merging the medical images of different modalities

### 主观的评估

01 subjective and objective quality assessment

### 最先进的

01 current state-of-the-art image fusion techniques in terms of entropy,

### 指标

*Evaluation Metrics*

### 遭受

CTD-SR methods still suffer from the undesirable effects caused by loss of energy