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Image fusion is used to enhance the quality of images by combining two images of same scene obtained from different techniques. In medical diagnosis by combining the images obtained by Computed Tomography (CT) scan and Magnetic

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Resonance Imaging
(MRI) we get more

information and
additional data from
fused image. This
paper presents a
hybrid technique
using curvelet and
wavelet transform
used ...

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technique for ...

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DWT for Micro Air

Vehicle Applications

**. ... results of all
fusion techniques
for different set of
images have been
carried out. High
PSNR and clear
fused image has
been achieved by**

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**2-D DWT with 9/7
Daubechies filter. 3.**

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Mohamed¹ and B.M.

**El-Den² ¹Faculty of
Engineering,**

Mansoura

University, Egypt

²Instructor at ITC

Company-Mahala,

Egypt Summary

Image fusion is a

process which

combines the data

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from two or more
source images from
the same scene to
generate one single

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**Image fusion is a
process which
combines the data
from two or more
source images from**

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Fig. 1.1

the same scene to generate one single image containing more precise details of the scene than any of the source images. Among many image fusion methods like averaging, principle component analysis and various types of Pyramid Transforms,

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Discrete cosine
transform, Discrete
Wavelet Transform
special frequency ...**

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focus ...**

**2.1 Simple Fusion
Algorithms The
trivial image fusion
techniques mainly
perform a very basic**

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operation like pixel selection, addition, subtraction or averaging. These methods are not always effective but are at times critical based on the kind of image under consideration. The trivial image fusion techniques studied and developed as

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adventure as well as
experience more or
less lesson,
amusement, as well
as bargain can be
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could believe even
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life, on the subject
of the world.

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Fusion is used to retrieve important data from a set of input images and put it into a single output image to make it more informative and useful than any of the input images. It improves quality and applicability of

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data. Quality of the fused image depends on the application. Image fusion is widely used in intelligent robots, stereo camera fusion, medical imaging, and manufacture process ...

**Image Fusion
Techniques: A**

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This paper discusses the implementation of three categories of image fusion algorithms – the basic fusion algorithms, the pyramid based algorithms and the basic DWT algorithms,

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developed as an ...

**(PDF) Study of
Different Image
fusion Algorithm
Part II deals with a
wide range of
techniques and
algorithms which
are in common use
in image fusion.
Among the topics
considered are: sub-
space**

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**transformations,
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analysis, wavelets,
ensemble learning,
bagging, boosting,
color spaces, image
thresholding,
Markov random
fields, image
similarity measures
and the expectation-
maximization
algorithm.**

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Wavelet

Transform.

Image fusion technique is

best in image

processing. Wavelet

approach if used

gives high

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Fractal
resolution image
during image
processing. This
paper focuses on
image fusion
techniques using
wavelet transform .

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Wavelet ...
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efficiently integrate complementary information from multiple source images into one single image to enhance the viewing perception of the observer. Fusing visible and infrared image data, for example, helps reveal hidden information in a

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scene and works quite well for detecting concealed weapons.

image fusion techniques and algorithms | Vision Systems Design
Abstract: This paper presents the implementation of image fusion techniques by

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means of an image fusion application “C#ImFuse”, developed in C#.NET. C# programming language is a simple, type-safe, object-oriented language that allows programmers to build a variety of applications.

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**Implementation and
Validation of Visual
and Infrared Image**

...

**Image Fusion:
Algorithms and
Applications
provides a
representative
collection of the
recent advances in
research and
development in the
field of image**

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fusion, demonstrating both spatial domain and transform domain fusion methods including Bayesian methods, statistical approaches, ICA and wavelet domain techniques.

**Image Fusion - 1st
Edition**

The image fusion

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process is defined as gathering all the important information from multiple images, and their inclusion into fewer images, usually a single one. This single image is more informative and accurate than any single source image, and it consists of all the

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**necessary
information. The
purpose of image
fusion is not only to
reduce the amount
of data but also to
construct images
that ...**

**Image fusion -
Wikipedia
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Technique Using**

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Wavelet Transform.

... The image fusion techniques studied and developed as part of the project.
Average Method
Here, the resultant image is obtained by averaging every corresponding pixel in the input images.

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March 2013 ...

M.A. Mohamed and

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**“Implementation of
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Techniques for

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Hamid Reza

Shahdoosti, Hassan

Ghassemian,

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International
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Artificial Intelligence
and Signal
Processing (AISP),
2012.**

**The Image
Registration
Techniques for**

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**Medical Imaging
(MRI-CT)**

So, it is challenging task to merge two or more medical images. The fused images are very useful in medical diagnosis. In this paper, image fusion has been performed in discrete wavelet transform (DWT) and Contourlet

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transform (CNT). As
a fusion rule, spatial
techniques like
Averaging,
Maximum Selection
and PCA is used.

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