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imaging - Wikipedia

Hyperspectral
imaging refers to
the ability to

capture the full
optical spectrum at
each point in an

image. This
technology has the
potential to

revolutionize
industries ranging
from agriculture

and medicine to

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electronics. But
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cost is standing in
the way. What if we
could make this
innovative
technology
accessible to all,
and unleash its full
potential on the
world?

Hyperspectral
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Hyperspectral
imaging (HSI) is a
passive, non-
invasive technique
that detects
reflected light.
Combining the high-
spectral information
from the camera
with artificial
intelligence

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Imaging, HSI is
used to analyse and
detect features in
the spatial images.

Thanks to its
potential, its
application domain
is growing.

The potential of
hyperspectral
imaging | Sirris
Hyperspectral
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Hyperspectral imaging is a non-invasive, non-destructive method of optimising the spectral differences of inks, toners and pigments. It can be used for the detection of forgery, alterations and page substitution of questioned

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Hyperspectral

Imaging as well
as for the analysis
of paintings and
artwork.

Tool

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Identification of
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Hyperspectral
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in Model Food
Processed by

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Identification of
Cold Spots Using

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Matrixspec is a
global leader in
hyperspectral
imaging in the food
processing
industry. Founded
in 2014 and based
on the over ten
years of state of
the art research,
MatrixSpec's
patented technology
is able to assess

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the quality, safety level and provide detailed analysis of various types of eggs, cuts of meat and other processed foods.

MatrixSpec
Solutions - Home
Hyperspectral
imaging (HSI) is a
technique that
analyzes a wide

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spectrum of light instead of just assigning primary colors (red, green, blue) to each pixel. The light striking each pixel is broken down into many different spectral bands in order to provide more information on what is imaged.

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Hyperspectral
imaging yields more
accurate color and
material
identification by
providing far more
detailed information
for each pixel as
compared to

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conventional
imaging such as a
color camera. In
contrast to a color
camera that has
only three channels,
the light signal is
divided into many
tens to hundreds of
bands or channels.

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Imaging - Resonon
People for CLYDE

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Company type
Private limited
Company
Incorporated on 16
March 2020 ...

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EPIC Online
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Meeting on
Hyperspectral
Imaging 6 May

2020 15:00 – 17:30

CEST. Topic. The aim of this meeting is to bring together the full value chain in hyperspectral imaging hardware and its use in several application

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fields. Attendees
will discuss about
potential
collaboration
towards the use of
thin-film filters, fast
scanning or ...

EPIC Online
Technology
Meeting on
Hyperspectral
Imaging
Hyperspectral

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Hyperspectral
imaging combines
the features of a
camera and a
spectrometer.

Collecting spectral
and spatial
information at the
same time saves
both time and
money by using one
camera instead of
both a spectrometer
and a camera. Past
image sensors and

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Imaging have had
limitations in speed,
resolution,
sensitivity, and
software.

hyperspectral
imaging sensor and
camera
requirements ...
Flexible technology
platform for high-
res and real-time
hyperspectral

Read Free
Hyperspectral
imaging. Our unique
on-chip
hyperspectral
imaging technology
allows us to make
different spectral
filter patterns.

Those fall into two
categories: A
mosaic pattern
(Bayer-like) on top
of a group of 3X3,
4X4 or 5X5 pixels.
This enables real-

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Hyperspectral

time hyperspectral
imaging, which is
crucial for every
application with a
moving camera or
' target ' .

Hyperspectral
imaging technology
| imec

Hyperspectral
imaging technology
was used to achieve
non-destructive

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testing of *Quercus
variabilis* vitality.
The data collection
and vigor prediction
of the seed
germination process
(10 h duration, 1 h
interval) were
carried out. SPA,
CARS, GA, VIP and
RF were used to
select the optimal
band.

Read Free Hyperspectral Imaging coupled with multivariate methods ...

As a component of diagnostic tools, hyperspectral imaging has many advantages: In itself, it ' s a non-invasive procedure. It ' s relatively easy to set up, due to the compactness of the

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new generation of
hyperspectral
cameras. Well-
documented
diagnostic use
cases for
hyperspectral
cameras stem from
their ability to
detect oxygen
saturation. This
enables the creation
of 2D maps of the
blood oxygenation

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of tissues.

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Medical
hyperspectral
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Hyperspectral
imaging, an
emerging
technology, can
provide both
spectral and spatial
information
simultaneously, and

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Hyperspectral

Imaging has the advantages of nondestructive, fast and nonpollution. The result indicated that hyperspectral imaging technology for the detection of freshness grade of eggs is feasible.

Nondestructive
detection for egg
freshness grade

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NASA developed hyperspectral imaging technology for military applications and the technology is mostly utilized by military and research organizations.

Today, hyperspectral imaging is not

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imaging in
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opportunities ...

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