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The mathematician
Ingrid Daubechies ' ,
pioneering work in
signal processing
helped make our
electronic world
possible — and beat
a path for women in

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The Godmother of the Digital Image

Introduction

According to a survey conducted by PwC, 72% of business leaders use AI for their business advantage. The ...

How Artificial Intelligence Is

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Changing the Future
of Digital Marketing

Global oil company
Aramco is deploying
an Internet of Things
(IoT) solution
leveraging software
from artificial
intelligence (AI)
technology firm
FogHorn to boost
efficiency, worker
safety and ...

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Aramco Pursues
Worker Safety, Flare,
BOP Prevention via
IoT

In an ambitious new installation, artist Refik Anadol used a 17,000 square-foot gallery to mount an immersive exhibit asking questions about online privacy ...

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‘ Privacy is at
stake ’ : what would
you do if you
controlled your own
data?

SystemX, the
technological
research institute
(IRT) dedicated to the
digital engineering of
the systems of the
future, is launching
the “ Business
Semantics for

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Multisource Data
Mining ” (SMD)
project, ...

SystemX launches
the third project of its
AI research program
on multi-source data
exploitation

We are at the
doorstep of a new era
of smart technology
and cybersecurity is
already a testing

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Answer

ground. The
cybersecurity
industry is
increasingly
impacted by the
deployment of
solutions supported
by a ...

Three Key Artificial
Intelligence
Applications For
Cybersecurity

Who are the most

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innovative, up-and-coming scientists in the US today? And what makes their ideas so fresh?

Popular Science's Brilliant 10 returns with a list of the geniuses you need to know in 2021.

[The Brilliant 10: The most innovative up-and-coming minds in](#)

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science Image

Rapid increases in machine-generated data are fueling demand for higher-performance multi-core computing, forcing design teams to rethink the movement of data on-chip, off-chip, and between chips in a ...

Data Explosion

Page 12/55

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Pushes Boundaries Of IC Interconnects

Find out how to squeeze every ounce of performance out of the Line 6 HX Stomp, as well as how to create entirely new sounds, with these expert tips ...

Creative Ways to Get Even More Out of HX Stomp

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Integrating empathy with AI models and the latest technologies can widen its fields of knowledge and provide further and more advanced solutions to complicated problems.

Technology To Save
Lives: How About

Where To Download Digital Image Empathy & Compassion For Animals?

Ask any archivist what question they receive the most, and the answer will invariably be some variation of: “ when are you going to digitize all of this? ” I field that ...

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Greene History Notes:

When will this be
digitized

Before they can make these changes, it ' s critical for business leaders and their teams to connect about what risk means to them. Be aware of the difference between risk tolerance and risk definition.

Where To Download Digital Image Before Pivoting Your Business, Make Sure Your Team Has the Same Definition of Risk

In fact, Einstein looked quite dapper and well-groomed during his early years at a university in Zurich, Switzerland. And this 'young' Einstein will come

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‘alive’ — albeit
digitally — at the
Swiss ...

Question And

Watch: A young,
dapper ‘ Digital
Einstein ’ set to
come alive at Swiss
Pavilion in Expo 2020
Dubai

Next up in our
beginner's guide
series is a genre that's
also a technique, a

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style and a radical artistic philosophy. We never promised you that genres were simple. Unlike most genres, the name ' noise ...

The beginner's guide to: noise

That ' s certainly not the case today, as mobile devices have replaced the clunky

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processing hardware
of yore. But the story
of change won't
end there, says
Andrew Wu of the
Michigan Ross
FinTech ...

How Consumers and
Mobile Devices are
Changing the
Economics of Card
Services

AI systems that their

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customers can trust.

"I trust navigation systems, because I know how they

work," said Fotis

Barlos, vice president of Analytics and Machine Intelligence at BBN Technologies for ...

Trusting AI when the stakes are high

The iPad mini 6 is

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what the pocketable tablet was always meant to be, thanks to its sleeker design, smarter features and powerful flexibility ...

[Apple iPad mini \(6th Gen\) review: the small tablet reaches its ultimate form](#)

We test the best thermal scopes, handhelds, clip-ons,

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and ranging binoculars. Find out which models performed the best in this review.

Best New Thermal Optics 2021

This Medical Equipment Rental and Leasing market report provides a framework for big corporations to find

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the most profitable
business
opportunities The
COVID 19 caused
substantial economic
turmoil ...

Medical Equipment
Rental and Leasing
Market Value
Projected to Expand
by 2027 Covid-19
Analysis

The huge device

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maker also skipped over its controversial plans to scan user devices for child exploitation images.

In order to realize real-time medical imaging systems, such as are used for computed

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tomography, automated microscopy, dynamic radioisotope imaging, etc., special technology is required. The high-speed image source must be successfully married with the ultra high-speed computer. Usually the ordinary general-purpose

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Computer is found to be inadequate to the image generation and/or image processing task. The ordinary computer executes instructions at between 1 and 10 million per second. Speed has improved by only about a factor of 10 during the past 20 years. In contrast a typical computer

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used in recognizing blood cell images at 10,000 per hour must execute instructions at between 1 billion and 10 billion per second. Similar execution rates are required to construct a computed tomography image in real-time (1 to 10 seconds). For the reasons given above,

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engineering
development in
image generation
and processing in the
field of biomedicine
has become a
discipline unto itself;
a discipline wherein
the computer
engineer is driven to
design extremely
high-speed machines
that far surpass the
ordinary computer

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and the x-ray,
radioisotope, or
microscope scanner
designer must also
produce equipment
whose specifications
extend far beyond
the state-of-the-art."

All of the biomedical
measurement
technologies, which

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are now instrumental to the medical field, are essentially useless without proper signal and image processing.

Biomedical Signal
and Image

Processing is unique in providing a comprehensive survey of all the conventional and advanced imaging

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modalities and the main computational methods used for processing the data obtained from each. This book offers self-contained coverage of the mathematics and biology/physiology necessary to build effective algorithms and programs for biomedical signal

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Digital Image
processing
applications. The first
part of the book
details the main
signal and image
processing, pattern
recognition, and
feature extraction
techniques along
with computational
methods from other
fields such as
information theory

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and stochastic processes. Building on this foundation, the second part explores the major one-dimensional biological signals, the biological origin and importance of each signal, and the commonly used processing techniques with an emphasis on

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physiology and diagnostic applications, while the third section does the same for imaging modalities.

Throughout the book, the authors rely on practical examples using real data from biomedical systems. They supply several programming examples in

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MATLAB® to provide hands-on experience and insight

Integrating all major modalities and computational techniques in a single source, Biomedical Signal and Image Processing is a perfect introduction to the field as well as an ideal reference for the established

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Image Processing,
Analysis and Machine
Vision represent an
exciting part of
modern cognitive
and computer
science. Following an
explosion of inter est
during the Seventies,
the Eighties were
characterized by the
maturing of the field

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and the significant growth of active applications; Remote Sensing, Technical Diagnostics, Autonomous Vehicle Guidance and Medical Imaging are the most rapidly developing areas. This progress can be seen in an increasing number of software and hardware

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products on the market as well as in a number of digital image processing and machine vision courses offered at universities world-wide. There are many texts available in the areas we cover - most (indeed, all of which we know) are referenced somewhere in this

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book. The subject suffers, however, from a shortage of texts at the 'elementary' level - that appropriate for undergraduates beginning or completing their studies of the topic, or for Master's students - and the very rapid developments that

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have taken and are still taking place, which quickly age some of the very good text books produced over the last decade or so. This book reflects the authors' experience in teaching one and two semester undergraduate and graduate courses in Digital Image

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Processing, Digital
Image Analysis,
Machine Vision,
Pattern Recognition
and Intelligent
Robotics at their
respective
institutions.

This comprehensive
volume introduces
educational units

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dealing with
important topics in
Mathematics,
Modelling and
Algorithms. Key
Features: Illustrative
examples and
exercises
Comprehensive
bibliography

Hands-on text for a
first course aimed at
end-users, focusing

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on concepts, practical
issues and problem
solving.

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Widely regarded as
the cornerstone text
in the field, the
successful series of
editions continues to
follow the tradition of
a clear and
comprehensive
presentation of the
physical principles

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and operational aspects of medical imaging. The Essential Physics of Medical Imaging, 4th Edition, is a coherent and thorough compendium of the fundamental principles of the physics, radiation protection, and radiation biology that underlie the practice

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and profession of
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Distinguished
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California, Davis,
provide up-to-date,
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ionizing and ionizing
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fields and ultrasound used in medical imaging and the imaging modalities in which they are used, including radiography, mammography, fluoroscopy, computed tomography, magnetic resonance, ultrasound, and nuclear medicine.

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This vibrant, full-color text is enhanced by more than 1,000 images, charts, and graphs, including hundreds of new illustrations. This text is a must-have resource for medical imaging professionals, radiology residents who are preparing for Core Exams, and

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teachers and
students in medical
physics and
biomedical
engineering.

The field of high-throughput genetic experimentation is evolving rapidly, with the advent of new technologies and new venues for data mining. Bayesian

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methods play a role central to the future of data and knowledge integration in the field of Bioinformatics. This book is devoted exclusively to Bayesian methods of analysis for applications to high-throughput gene expression data,

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exploring the relevant methods that are changing Bioinformatics. Case studies, illustrating Bayesian analyses of public gene expression data, provide the backdrop for students to develop analytical skills, while the more experienced readers will find the review of

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advanced methods
challenging and
attainable. This book:

Introduces the
fundamentals in
Bayesian methods of
analysis for
applications to high-
throughput gene
expression data.

Provides an extensive
review of Bayesian
analysis and
advanced topics for

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Bioinformatics,
including examples
that extensively
detail the necessary
applications.

Accompanied by
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datasets, exercises
and solutions.

Bayesian Analysis of
Gene Expression Data
offers a unique
introduction to both
Bayesian analysis and

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gene expression,
aimed at graduate
students in Statistics,
Biomedical
Engineers, Computer
Scientists,
Biostatisticians,
Statistical Geneticists,
Computational
Biologists, applied
Mathematicians and
Medical consultants
working in genomics.
Bioinformatics

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researchers from
many fields will find
much value in this
book.

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