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***Pixl
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This book constitutes
the refereed
proceedings of the
15th International
Symposium on Neural

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Networks, ISNN
2018, held in Minsk,
Belarus in June
2018. The 98 revised
regular papers
presented in this
volume were carefully
reviewed and selected
from 214 submissions.
The papers cover
many topics of neural
network-related
research including

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intelligent control,
neurodynamic
analysis, bio-signal,
bioinformatics and
biomedical
engineering,
clustering,
classification,
forecasting, models,
algorithms, cognitive
computation, machine
learning, and
optimization.?

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Based on the author's experience in teaching data science for more than 10 years, Mathematics and Programming for Machine Learning with R: From the Ground Up reveals how machine learning algorithms do their magic and explains how these algorithms

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can be implemented in code. It is designed to provide readers with an understanding of the reasoning behind machine learning algorithms as well as how to program them. Written for novice programmers, the book progresses step-by-step, providing the coding skills needed

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to implement machine learning algorithms in R. The book begins with simple implementations and fundamental concepts of logic, sets, and probability before moving to the coverage of powerful deep learning algorithms. The first eight chapters deal

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with probability-based machine learning algorithms, and the last eight chapters deal with machine learning based on artificial neural networks. The first half of the book does not require mathematical sophistication, although familiarity with probability and

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statistics would be helpful. The second half assumes the reader is familiar with at least one semester of calculus. The text guides novice R programmers through algorithms and their application and along the way; the reader gains programming confidence in tackling

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advanced R programming challenges. Highlights of the book include: More than 400 exercises A strong emphasis on improving programming skills and guiding beginners to the implementation of full-fledged algorithms Coverage

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of fundamental
computer and
mathematical concepts
including logic, sets,
and probability In-
depth explanations of
machine learning
algorithms

A student-friendly and
engaging resource for
the 2016 Edexcel
GCSE Geography B
specification, this

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brand new course is written to match the demands of the specification. As well as providing thorough and rigorous coverage of the spec, this book is designed to engage students in their learning and to motivate them to progress.

First International
Page 11/136

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Conference,

ICTCSDM 2016,

Krishnankoil, India,

December 19-21,

2016, Revised

Selected Papers

Computer Science and

Applications

Mathematics

Modeling Our World

Biomedical

Engineering and

Environmental

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Engineering
14th Asian
Conference on
Computer Vision,
Perth, Australia,
December 2–6, 2018,
Revised Selected
Papers, Part III
12th Asian
Conference, ACIIDS
2020, Phuket,
Thailand, March
23–26, 2020,

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Proceedings, Part II

*The 2014 Asia-Pacific
Conference on
Computer Science
and Applications
was held in
Shanghai,
December 27-28,
2014. These
CSAC-2014
proceedings
include 105
selected papers,*

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which focus not only on the research of science and technology of computer sciences, but also on the research of applications, aiming at a quick and immediate effect on

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This conference series is a forum for enhancing mutual understanding between Biomedical Engineering and Environmental Engineering field. This proceeding provides contributions

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*from many
experts
representing
industry and
academic
establishments
worldwide. The
researchers are
from different
countries and
professional.
The conference
brought
The*

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*pervasiveness of
computers in
every field of
science,
industry and
everyday life
has meant that
applied
mathematics,
particularly in
relation to
modeling and
simulation, has
become ever more*

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important in
recent years.

*This book
presents the
proceedings of
the 2021
International
Conference on
Applied
Mathematics,
Modeling and
Computer
Simulation
(AMMCS 2021),*

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hosted in Wuhan,
China, and held
as a virtual
event from 13 to
14 November
2021. The aim of
the conference
is to foster the
knowledge and
understanding of
recent advances
across the broad
fields of
applied

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*mathematics,
modeling and
computer
simulation, and
it provides an
annual platform
for scholars and
researchers to
communicate
important recent
developments in
their areas of
specialization
to colleagues*

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*and other
scientists in
related
disciplines.*

*This year more
than 150
participants
were able to
exchange
knowledge and
discuss recent
developments via
the conference.*

The book

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*contains 115
peer-reviewed
papers, selected
from more than
250 submissions
and ranging from
the theoretical
and conceptual
to the strongly
pragmatic and
all addressing
industrial best
practice. Topics
covered include*

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*mathematical
modeling and
applications,
engineering
applications and
scientific
computations,
and the
simulation of
intelligent
systems.
Providing an
overview of
recent*

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development and
with a mix of
practical
experiences and
enlightening
ideas, the book
will be of
interest to
researchers and
practitioners
everywhere.

Applied
Mathematics,
Modeling and

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Computer
Simulation

2004 IEEE

International
Geoscience and
Remote Sensing
Symposium :
Proceedings :
Science for
Society:
Exploring and
Managing a
Changing Planet
: 20-24

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September, 2004,
June 2014,
Anchorage,

Alaska

*Mathematics of
Data/image*

Coding,

*Compression, and
Encryption*

Perfect ICT

Every Lesson

*Proceedings of
the 2014 2nd*

International

Conference on

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*Biomedical
Engineering and
Environmental
Engineering
(ICBEEE 2014),
December 24-25,
2014, Wuhan,
China
Intelligent
Information and
Database Systems
Artificial
Intelligence
Research and
Page 28/136*

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Development

The authors of this text demonstrate using mathematical concepts to solve truly interesting problems about how our world works.

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Mathematical modeling is the process of looking at a problem, finding a mathematical core, working within that core, and coming back to see what mathematics tells you about

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the problem.

Real problems

ask such

questions as:

How do we

create computer

animations?

Where should we

locate a fire

station? How do

we effectively

control an animal

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population? This approach integrates a mix of ideas in geometry, algebra, and data analysis with technologies of computers and graphing calculators.

The six-volume

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set LNCS
June 2014

10404-10409

constitutes the
refereed
proceedings of
the 17th
International
Conference on
Computational
Science and Its
Applications,
ICCSA 2017,

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June 2014

held in Trieste,
Italy, in July
2017. The 313
full papers and
12 short papers
included in the
6-volume
proceedings set
were carefully
reviewed and
selected from
1052

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June 2014

submissions.

Apart from the
general tracks,
ICCSA 2017
included 43
international
workshops in
various areas of
computational
sciences, ranging
from
computational

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science
June 2014

technologies to
specific areas of
computational
sciences, such as
computer
graphics and
virtual reality.
Furthermore,
this year ICCSA
2017 hosted the
XIV International

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Workshop On
Quantum
Reactive
Scattering. The
program also
featured 3
keynote
speeches and 4
tutorials.
This book
features selected
papers from the

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6th International
Conference on
Mathematics and
Computing
(ICMC 2020),
organized by
Sikkim
University,
Gangtok, Sikkim,
India, during
September 2020.
It covers recent

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advances in the field of mathematics, statistics, and scientific computing. The book presents innovative work by leading academics, researchers, and experts from

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industry.

Active Media
Technology

Digital-Forensics
and

Watermarking
6th Edition

Mathematics and
Programming for
Machine

Learning with R
IGARSS 2004

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Maths Paper 2
June 2014

Computational
Science and Its
Applications –
ICCSA 2017
Smart Trends in
Information
Technology and
Computer
Communications
***This book
constitutes the
thoroughly***

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June 2014

***refereed post-
proceedings of the
12th International
Workshop on
Digital-Forensics
and Watermarking,
IWDW 2013, held
in Auckland, New
Zealand, during
October 2013. The
24 full and 13
poster papers,
presented together***

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Maths Paper 2
June 2014

***with 2 abstracts,
were carefully
reviewed and
selected from 55
submissions. The
papers are
organized in
topical sections on
steganography
and steganalysis;
visual
cryptography;
reversible data***

***hiding; forensics;
watermarking;
anonymizing and
plate recognition.
The education
system is
constantly
growing and
developing as
more ways to
teach and learn are
implemented into
the classroom.***

***Recently, there
has been a
growing interest in
teaching
computational
thinking with
schools all over
the world
introducing it to
the curriculum due
to its ability to
allow students to
become proficient***

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***at problem solving
using logic, an
essential life skill.
In order to provide
the best education
possible, it is
imperative that
computational
thinking
strategies, along
with programming
skills and the use
of robotics in the***

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Maths Paper 2
June 2014

***classroom, be
implemented in
order for students
to achieve
maximum thought
processing skills
and computer
competencies. The
Research
Anthology on
Computational
Thinking,
Programming, and***

Robotics in the Classroom is an all-encompassing reference book that discusses how computational thinking, programming, and robotics can be used in education as well as the benefits and difficulties of

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Maths Paper 2
June 2014

***implementing
these elements
into the
classroom. The
book includes
strategies for
preparing
educators to teach
computational
thinking in the
classroom as well
as design
techniques for***

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Maths Paper 2
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***incorporating
these practices
into various levels
of school
curriculum and
within a variety of
subjects. Covering
topics ranging
from
decomposition to
robot learning, this
book is ideal for
educators,***

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**computer
scientists,
administrators,
academicians,
students, and
anyone interested
in learning more
about how
computational
thinking,
programming, and
robotics can
change the current**

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***education system.
This volume
constitutes the
refereed post-
conference
proceedings of the
International
Conference on
Theoretical
Computer Science
and Discrete
Mathematics, held
in Krishnankoil,***

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June 2014

India, in December 2016. The 57 revised full papers were carefully reviewed and selected from 210 submissions. The papers cover a broad range of topics such as line graphs and its generalizations, large graphs of

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***given degree and
diameter,
graphoidal covers,
adjacency
spectrum, distance
spectrum, b-
coloring,
separation
dimension of
graphs and
hypergraphs,
domination in
graphs, graph***

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Maths Paper 2
June 2014

***labeling problems,
subsequences of
words and Parikh
matrices, lambda-
design conjecture,
graph algorithms
and interference
model for wireless
sensor networks.
IGARSS.***

***Environment and
Planning***

15th International

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**Symposium on
Neural Networks,
ISNN 2018, Minsk,
Belarus, June
25–28, 2018,
Proceedings
Computer Vision –
ACCV 2018
Mathematics of
Data/image
Coding,
Compression, and
Encryption II**

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***Advances in
Neural Networks –
ISNN 2018***

*Spatial
Modeling in GIS
and R for Earth
and
Environmental
Sciences offers
an integrated
approach to
spatial*

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Maths Paper 2
June 2014

*modelling using
both GIS and R.*

*Given the
importance of
Geographical
Information
Systems and
geostatistics
across a
variety of
applications in
Earth and
Environmental*

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Maths Paper 2
June 2014

Science, a
clear link
between GIS and
open source
software is
essential for
the study of
spatial objects
or phenomena
that occur in
the real world
and facilitate
problem-

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solving.

June 2014

*Organized into
clear sections
on applications
and using case
studies, the
book helps
researchers to
more quickly
understand GIS
data and
formulate more
complex*

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conclusions.

The book is the first reference to provide methods and applications for combining the use of R and GIS in modeling spatial processes. It is an essential

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*tool for
students and
researchers in
earth and
environmental
science,
especially
those looking
to better
utilize GIS and
spatial
modeling.*

Offers a clear,

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*interdisciplinary guide to
serve
researchers in
a variety of
fields,
including
hazards, land
surveying,
remote sensing,
cartography,
geophysics,
geology,*

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*natural
resources,
environment and
geography
Provides an
overview,
methods and
case studies
for each
application
Expresses
concepts and
methods at an*

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*appropriate
level for both
students and
new users to
learn by
example*

*This volume
contains
working papers
on astronomy
and
astrophysics
prepared by 15*

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non-National
June 2014
Research

*Council panels
in areas
ranging from
radio astronomy
to the status
of the
profession.*

*Proceedings of
SPIE present
the original
research papers*

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presented at
SPE

*conferences and
other high-
quality
conferences in
the broad-
ranging fields
of optics and
photonics.*

*These books
provide prompt
access to the*

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June 2014

*latest
innovations in
research and
technology in
their
respective
fields.*

*Proceedings of
SPIE are among
the most cited
references in
patent
literature.*

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*Internet of
Things and Deep
Learning Models
GCSE Geography
Edexcel B
Advanced
Concepts for
Intelligent
Vision Systems
17th
International
Conference,
Trieste, Italy,
Page 69/136*

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July 3-6, 2017,
June 2014,
Proceedings,

Part VI

12th

International

Workshop, IWDW

2013, Auckland,

New Zealand,

October 1-4,

2013. Revised

Selected Papers

Mathematics and

Applications of

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Data/image

Coding,

Compression,

and Encryption

III

Mathematics of

Data/image

Pattern

Recognition,

Compression,

and Encryption

with

Applications IX

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The two-volume
set LNAI 12033
and 11034
constitutes the
refereed
proceedings of the
12th Asian
Conference on
Intelligent
Information and
Database
Systems, ACIIDS

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2020, held in
Phuket, Thailand,
in March 2020.

The total of 105
full papers
accepted for
publication in
these proceedings
were carefully
reviewed and
selected from 285
submissions. The

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papers of the first
volume are

organized in the
following topical
sections:

Knowledge
Engineering and
Semantic Web,
Natural Language
Processing,
Decision Support
and Control

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Systems,
Computer Vision
Techniques,
Machine Learning
and Data Mining,
Deep Learning
Models, Advanced
Data Mining
Techniques and
Applications,
Multiple Model
Approach to

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Machine Learning.

The papers of the second volume are divided into these topical sections:

Application of Intelligent Methods to Constrained Problems,
Automated Reasoning with Applications in

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Intelligent
Systems, Current
Trends in Arti cial
Intelligence,
Optimization,
Learning, and
Decision-Making in
Bioinformatics and
Bioengineering,
Computer Vision
and Intelligent
Systems, Data

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Modelling and
Processing for
Industry 4.0,
Intelligent
Applications of
Internet of Things
and Data Analysis
Technologies,
Intelligent and
Contextual
Systems,
Intelligent Systems

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and Algorithms in
Information
Sciences,
Intelligent Supply
Chains and e-
Commerce,
Privacy, Security
and Trust in Arti
cial Intelligence,
Interactive
Analysis of Image,
Video and Motion

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Data in
LifeSciences.

The six volume set
LNCS 10634,
LNCS 10635,
LNCS 10636,
LNCS 10637,
LNCS 10638, and
LNCS 10639
constitues the
proceedings of the
24rd International

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Conference on
Neural Information
Processing,
ICONIP 2017, held
in Guangzhou,
China, in
November 2017.
The 563 full
papers presented
were carefully
reviewed and
selected from 856

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submissions. The
6 volumes are
organized in
topical sections on
Machine Learning,
Reinforcement
Learning, Big Data
Analysis, Deep
Learning, Brain-
Computer
Interface,
Computational

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Finance, Computer
Vision,
Neurodynamics,
Sensory
Perception and
Decision Making,
Computational
Intelligence,
Neural Data
Analysis,
Biomedical
Engineering,

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Emotion and
Bayesian
Networks, Data
Mining, Time-
Series Analysis,
Social Networks,
Bioinformatics,
Information
Security and
Social Cognition,
Robotics and
Control, Pattern

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Recognition,
Neuromorphic
Hardware and
Speech
Processing.

This book
constitutes the
refereed
proceedings of the
5th International
Conference on
Active Media

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Technology, AMT
2009, held in
Beijing, China, in
October 2009. The
47 revised full
papers and the 6
keynote talks were
carefully reviewed
and selected. The
papers reflect the
shared forum for
researchers and

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practitioners from
diverse fields, such
as computer
science,
information
technology,
artificial
intelligence, media
engineering,
economics, data
mining, data and
knowledge

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engineering,
intelligent agent
technology, human
computer
interaction,
complex systems
and systems
science. The book
offers new insights
into the main
research
challenges and

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development of
AMT by revealing
the interplay
between the
studies of human
informatics and
research of
informatics on the
Web/Internet,
mobile and
wireless centric
intelligent

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information
processing
systems.

Research
Anthology on
Computational
Thinking,
Programming, and
Robotics in the
Classroom
From the Ground
Up

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Image and
Graphics

Neural Information
Processing

Interpretable

Machine Learning

Astronomy and

Astrophysics Panel

Reports

Selected Water

Resources

Abstracts

Artificial intelligence has now become an indispensable tool at the centre of problem-solving in a huge range of digital technologies, and remains one of the most vibrant topics for discussion and research. This

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*book presents a
compilation of the
articles presented at
the 22nd (2019)
edition of the
International
Conference of the
Catalan Association
for Artificial
Intelligence (CCIA),
held in Mallorca,
Spain, from 23 – 25*

October 2019. This annual conference is an international event that serves as a meeting point for researchers into artificial intelligence based in the area of the Catalan speaking territories and for researchers from

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around the world.

The book is divided into 8 sections. The first contains summaries of the 3 invited talks presented at the conference: 'New methods for fusing information and the computational brain', by Javier

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Fernandez; 'From correlation to imagination: Deep generative models for artificial intelligence' by Joan Serrà; and 'Explainable AI' by Anna Monreale. The remaining 7 sections contain 47 papers covering

*ethics and E-
governance;
machine learning;
constraints and
SAT, optimization
and fuzzy; data
science,
recommender
systems and
decision support
systems; agent-
based and multi-*

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*agent systems;
computer vision;
and sentiment
analysis and text
analysis. The book
provides an
overview of the
latest developments
in the field, and as
such will be of
interest to all those
whose work involves*

*the study and
application of
artificial
intelligence.*

*Technology is at the
heart of learning for
all of us and every
teacher needs to be
using social media,
mobile technologies
and
transformational*

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digital learning opportunities as an integral part of their range of strategies for helping students make the maximum progress. In this book in the 'Perfect' series, Mark Anderson, the ICT Evangelist, takes the technology-

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*related elements of
all the recent
subject reports from
Ofsted and using
them offers clear
and practical
strategies that are
proven to be
successful in
classrooms and
offers up ideas for
how they can be*

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*turned into a daily
reality for all
teachers.*

*Interpretable
Machine Learning
ulu.com Mathematic
s of Data/image
Coding,
Compression, and
Encryption II19-20
July, 1999, Denver,
Colorado Society of*

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Photo

Optical Imaging The

Imaging Industry

Magazine AFOSR

Technical Report S

ummaries Intelligent

Information and

Database

Systems 12th Asian

Conference,

ACIIDS 2020,

Phuket, Thailand,

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***March 23–26, 2020,
Proceedings, Part
II Springer Nature
Imaging
24th International
Conference,
ICONIP 2017,
Guangzhou, China,
November 14-18,
2017, Proceedings,
Part III
Emerging***

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***Technologies for
Healthcare***

***Working Papers
Proceedings of the
2014 Asia-Pacific
Conference on
Computer Science
and Applications
(CSAC 2014),
Shanghai, China,
27-28 December
2014***

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***AFOSR Technical
Report Summaries
Conference***

***Proceedings. New
Perspectives in
Science Education***

*The six volume
set LNCS*

*11361-11366
constitutes the
proceedings of
the 14th Asian*

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*Conference on
Computer Vision,
ACCV 2018, held
in Perth,
Australia, in
December 2018.
The total of 274
contributions was
carefully
reviewed and
selected from 979
submissions
during two*

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*rounds of
reviewing and
improvement.*

*The papers focus
on motion and
tracking,
segmentation and
grouping, image-
based modeling,
deep learning,
object
recognition
object*

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*recognition,
object detection
and*

*categorization,
vision and
language, video
analysis and
event*

*recognition, face
and gesture
analysis,
statistical
methods and*

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*learning,
performance
evaluation,
medical image
analysis,
document
analysis,
optimization
methods, RGBD
and depth
camera
processing,
robotic vision,*

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*applications of
computer vision.*

*This book
constitutes the
refereed
proceedings of
the 7th
International
Conference on
Digital Human
Modelling:
Applications in
Health, Safety,*

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*Ergonomics and
Risk*

*Management,
DHM 2016, held
as part of the
18th*

*International
Conference on
Human-Computer
Interaction, HCII
2016, held in
Toronto, ON,
Canada, in July*

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2016 and received a total of 4354 submissions, of which 1287 papers were accepted for publication after a careful reviewing process. These papers address the latest

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research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer

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*interaction,
addressing major
advances in
knowledge and
effective use of
computers in a
variety of
application areas.
This volume
contains papers
addressing the
following major
topics:*

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anthropometry,

ergonomics,

design and

comfort;

physiology and

anatomy models;

motion prediction

and recognition;

quality and safety

in healthcare;

design for health;

work design and

support;

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*modeling human
behavior and
cognition.*

*This book
constitutes the
refereed
proceedings of
the 9th
International
Conference on
Advanced
Concepts for
Intelligent Vision*

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*Systems, ACIVS
2007, held in
Delft, The
Netherlands,
August 2007.*

*Coverage
includes noise
reduction and
restoration,
segmentation,
motion
estimation and
tracking, video*

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*processing and
coding, camera
calibration,
image
registration and
stereo matching,
biometrics and
security, medical
imaging, image
retrieval, as well
as classification
and recognition.*

2 August 2000,

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Maths Paper 2
San Diego, USA

June 2014
*The Imaging
Industry*

Magazine

*9th International
Conference, ICIG*

*2017, Shanghai,
China,*

*September 13-15,
2017, Revised*

*Selected Papers,
Part III*

19-20 July, 1999,

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*Denver, Colorado
7th International
Conference,
DHM 2016, Held
as Part of HCI
International
2016, Toronto,
ON, Canada, July
17-22, 2016,
Proceedings
Radar Sensor
Technology
First*

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*International
Conference,
SmartCom 2016,
Jaipur, India,
August 6-7, 2016,
Revised Selected
Papers*

*This three-volume
set LNCS 10666,
10667, and 10668
constitutes the
refereed conference
proceedings of the*

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*9th International
Conference on
Image and
Graphics, ICIG
2017, held in
Shanghai, China, in
September 2017.
The 172 full papers
were selected from
370 submissions
and focus on
advances of theory,
techniques and*

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*algorithms as well
as innovative
technologies of
image, video and
graphics processing
and fostering
innovation,
entrepreneurship,
and networking.*

*?Emerging
Technologies for
Healthcare? beginnt
mit einer IoT-*

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*basierten Lösung
für die
Automatisierung im
Gesundheitssektor,
wodurch Verfahren
auf Grundlage von
fortschrittlichen De
ep-Learning-
Techniken
ermöglicht werden.
Praktische
Lösungen, die auf
verschiedenen*

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*Ansätzen des
maschinellen
Lernens beruhen,
werden vorgestellt
und auf die Analyse
und Vorhersage von
Krankheiten
angewandt. Ein
Beispiel ist die
Nutzung einer
dreidimensionalen
Matrix für die
Behandlung*

*chronischer Nierene
rkrankungen, die
Diagnose und
Prognose des
erworbenen
demyelinisierenden
Syndroms und von
Autismus-Spektrum-
Störungen sowie
die Erkennung von
Lungenentzündung
en. Außerdem
werden*

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*verschiedene
geeignete Ansätze
vorgestellt, wie die
Gesundheitssysteme
mit
COVID-19-Fällen
umgehen können.
Daneben wird ein
detaillierter Erkenn-
ungsmechanismus
dargelegt, mit
dessen Hilfe
Lösungen*

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*entwickelt werden
können, um von der
Handschrift auf die
Persönlichkeit zu
schließen, und es
werden neuartige
Ansätze für die
Stimmungsanalyse
aufgezeigt, die mit
ausreichenden
Daten und
verschiedenen
Betrachtungsweise*

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Maths Paper 2
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*n untermauert sind.
Dieses Buch enthält
nicht nur
theoretische
Ansätze und
Algorithmen,
sondern zeigt auch
auf, welche Schritte
bei der
Problemanalyse
mithilfe von Daten,
Prozessen,
Berichten und Opti*

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*mierungstechniken
durchlaufen*

*werden. Es ist ein
umfassendes
Nachschlagewerk
für die Lösung
verschiedener
Probleme anhand
von Algorithmen für
das maschinelle
Lernen.*

*This book
constitutes the*

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refereed

*proceedings of the
First International
Conference on
Smart Trends in
Information
Technology and
Computer
Communications,
SmartCom 2016,
held in Jaipur, India,
in August 2016. The
106 revised papers*

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*presented were
carefully reviewed
and selected from
469 submissions.
The papers address
issues on smart and
secure systems;
technologies for
digital world; data
centric approaches;
applications for e-
agriculture and e-
health; products*

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Maths Paper 2
June 2014

*and IT innovations;
research for
knowledge
computing.*

*9th International
Conference, ACIVS
2007, Delft, The
Netherlands,
August 28-31,
2007, Proceedings
5th International
Conference, AMT
2009, Beijing,*

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Maths Paper 2
China, October
June 2014,
22-24, 2009,

*Proceedings
Digital Human
Modeling:
Applications in
Health, Safety,
Ergonomics and
Risk Management
Scientific and
Technical
Aerospace Reports
Analysis and*

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Application
ICMC 2020
Proceedings of
AMMCS 2021