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*This book includes
papers on intelligent
expert systems and
sustainability
applications in the
areas of data
science, image
processing, wireless*

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communication, risk assessment, healthcare, intelligent social network mining, and energy. The recent growth of sustainability leads to a progressively new era of computing, where its design and

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deployment leverages significant impact on the intelligent systems research. Moreover, the sustainability technologies can be effectively used in the progressive deployment of various network-enabled

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technologies like intelligent sensors, smart cities, wearable technologies, robotics, web applications and other such Internet technologies. The thrust of this book is to publish the state-of-the-art research

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articles that deals with the design, development, implementation and testing of the intelligent expert systems and also to provide an overview of the sustainable management of these systems.

Gathering the

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*Proceedings of the
2018 Intelligent
Systems Conference
(IntelliSys 2018),
this book offers a
remarkable
collection of
chapters covering a
wide range of topics
in intelligent
systems and
computing, and*

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their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions

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underwent a double-blind peer review process, after which 194 (including 13 poster papers) were selected to be included in these proceedings. As intelligent systems continue to replace and sometimes outperform human

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intelligence in decision-making processes, they have made it possible to tackle many problems more effectively. This branching out of computational intelligence in several directions, and the use of

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*intelligent systems
in everyday
applications, have
created the need for
such an
international
conference, which
serves as a venue
for reporting on
cutting-edge
innovations and
developments. This*

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book collects both theory and application-based chapters on all aspects of artificial intelligence, from classical to intelligent scope. Readers are sure to find the book both interesting and valuable, as it

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presents state-of-the-art intelligent methods and techniques for solving real-world problems, along with a vision of future research directions.

An indispensable reference publication for

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*telecommunication
and information-
industry
professionals. Each
year, the IEC brings
together into one
unique resource the
most current
thinking and
practical experience
of industry leaders
around the world on*

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*a variety of topics
facing their areas of
specialization. This
700+ page reference
tool is a must for
executives,
managers,
engineers, analysts,
and educators in all
sectors of today's
changing
information*

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industry.

*Proceedings of the
Fifth International
Mobile Satellite
Conference 1997,
IMSC '97*

DC Servos

*Annual Review of
Communications:
Volume 59*

*Organizational and
Direct Support*

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*Maintenance
Manual
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Paradigms and
Hybrid Intelligent
Computing
Proceedings of
ICACCP 2021
Advances in
Mathematical
Sciences*

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We have seen thousands of promising engg. And oher profesional carers being ruined due to lack of basic writing skills in english language.The students cannot be blamed for this short fall.of late the trend has been to lay complete

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emphasis on teaching only subjects related to the technical and other professional stream chosen by the students.

This three-volume set constitutes the refereed proceedings of the 14th International Conference on Knowledge Science,

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Engineering and Management, KSEM 2021, held in Tokyo, Japan, in August 2021. The 164 revised full papers were carefully reviewed and selected from 492 submissions. The contributions are organized in the following topical sections: knowledge

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science with
learning and AI;
knowledge
engineering
research and
applications;
knowledge
management with
optimization and
security.
This book
constitutes the
refereed
proceedings of the

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First International Conference on Intelligent Technologies and Applications, INTAP 2018, held in Bahawalpur, Pakistan, in October 2018. The 68 revised full papers and 6 revised short papers presented were carefully reviewed and selected from

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251 submissions.
The papers of this
volume are
organized in topical
sections on AI and
health; sentiment
analysis; intelligent
applications; social
media analytics;
business
intelligence; Natural
Language
Processing;
information

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extraction; machine learning; smart systems; semantic web; decision support systems; image analysis; automated software engineering.

First International Conference, INTAP 2018, Bahawalpur, Pakistan, October 23-25, 2018, Revised Selected Papers

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About the
Development of a
Second Generation
Atmospheric
Sampler Control and
Data System
ICSES 2020
14th International
Conference, KSEM
2021, Tokyo, Japan,
August 14-16, 2021,
Proceedings, Part III
Design and
implement advanced

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next-generation AI
solutions using
TensorFlow and
PyTorch
Patents

Advanced
Computing

*This book presents select
proceedings of the
International Conference
on Intelligent Automation
and Soft Computing
(IASC2021). Various
topics covered in this*

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book include AI algorithm, neural networks, pattern recognition, machine learning, blockchain technology, system engineering, computer vision and image processing, adaptive control and robotics, big data and data processing, networking and security. The book is a valuable reference for

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*beginners, researchers,
and professionals
interested in artificial
intelligence, automation,
and soft computing.*

*Gain expertise in
advanced deep learning
domains such as neural
networks, meta-learning,
graph neural networks,
and memory augmented
neural networks using the
Python ecosystem Key*

Features Get to grips with

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building faster and more robust deep learning architectures Investigate and train convolutional neural network (CNN) models with GPU-accelerated libraries such as TensorFlow and PyTorch Apply deep neural networks (DNNs) to computer vision problems, NLP, and GANs Book Description In order to build robust

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deep learning systems, you'll need to understand everything from how neural networks work to training CNN models. In this book, you'll discover newly developed deep learning models, methodologies used in the domain, and their implementation based on areas of application. You'll start by understanding the

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building blocks and the math behind neural networks, and then move on to CNNs and their advanced applications in computer vision. You'll also learn to apply the most popular CNN architectures in object detection and image segmentation. Further on, you'll focus on variational autoencoders and GANs. You'll then

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use neural networks to extract sophisticated vector representations of words, before going on to cover various types of recurrent networks, such as LSTM and GRU. You'll even explore the attention mechanism to process sequential data without the help of recurrent neural networks (RNNs). Later, you'll use graph neural

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networks for processing structured data, along with covering meta-learning, which allows you to train neural networks with fewer training samples. Finally, you'll understand how to apply deep learning to autonomous vehicles. By the end of this book, you'll have mastered key deep learning concepts and the different

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applications of deep learning models in the real world. What you will learn Cover advanced and state-of-the-art neural network architectures Understand the theory and math behind neural networks Train DNNs and apply them to modern deep learning problems Use CNNs for object detection and image

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segmentation Implement generative adversarial networks (GANs) and variational autoencoders to generate new images Solve natural language processing (NLP) tasks, such as machine translation, using sequence-to-sequence models Understand DL techniques, such as meta-learning and graph neural networks Who this

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book is for This book is for data scientists, deep learning engineers and researchers, and AI developers who want to further their knowledge of deep learning and build innovative and unique deep learning projects. Anyone looking to get to grips with advanced use cases and methodologies adopted in the deep learning domain

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using real-world examples will also find this book useful. Basic understanding of deep learning concepts and working knowledge of the Python programming language is assumed. This volume highlights the mathematical research presented at the 2019 Association for Women in Mathematics (AWM) Research

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Symposium held at Rice University, April 6-7, 2019. The symposium showcased research from women across the mathematical sciences working in academia, government, and industry, as well as featured women across the career spectrum: undergraduates, graduate students, postdocs, and

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professionals. The book is divided into eight parts, opening with a plenary talk and followed by a combination of research paper contributions and survey papers in the different areas of mathematics represented at the symposium:

- algebraic combinatorics*
- and graph theory*
- algebraic biology*
- commutative algebra*

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*analysis, probability, and
PDEs topology applied
mathematics mathematics
education*

*Simulation and Analysis
of Mathematical
Methods in Real-Time
Engineering Applications
Algorithms and
Architectures for Parallel
Processing*

*21st International
Conference, ICA3PP
2021, Virtual Event,*

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December 3–5, 2021,

Proceedings, Part I

SCADS-2

Held June 8, 9. and 10,

1970

Journal of Applied

Photographic

Engineering

Proceedings of

International Conference

on Sustainable Expert

Systems

Written and edited by

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a group of renowned specialists in the field, this outstanding new volume addresses primary computational techniques for developing new technologies in soft computing. It also highlights the security, privacy,

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artificial intelligence, and practical approaches needed by engineers and scientists in all fields of science and technology. It highlights the current research, which is intended to advance not only mathematics but all areas of

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science, research, and development, and where these disciplines intersect. As the book is focused on emerging concepts in machine learning and artificial intelligence algorithmic approaches and soft computing

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techniques, it is an invaluable tool for researchers, academicians, data scientists, and technology developers. The newest and most comprehensive volume in the area of mathematical methods for use in

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real-time engineering, this groundbreaking new work is a must-have for any engineer or scientist ' s library. Also useful as a textbook for the student, it is a valuable contribution to the advancement of the science, both a working handbook

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for the new hire or student, and a reference for the veteran engineer.

The European Computer Users Handbook 1968/69, Sixth Edition is a handbook of computers and computer peripherals which could be used

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in Europe. Details of computers and peripheral devices, including analog computers, calculators, and data transmission equipment, are presented. This book is organized into 10 sections and begins by giving information

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on digital computers that could be used in Europe based on recommendations by Computer Consultants Limited. Comments on the particular computer manufacturer concerned are included and the particular item of

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equipment is described. Digital computers, electronic calculators, analog computers, peripheral equipment, and data transmission equipment available in Europe are then listed. The names and addresses of

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computer manufacturers and selling organizations concerned with computers used in Europe are also provided. Two tables are given: one for computer installations by number, import value, and home built

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value in sixteen European countries, and another for computer installations in the United States. This monograph will be a valuable resource for both computer users and manufacturers. This report documents the

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development of an atmospheric sampling control and data acquisition system (SCADS) for the Department of Energy's high-altitude, balloon-borne monitoring program. The period documented spans 5 calendar years ending

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with 1977. Sources for technical information are referenced. (Author).
Soft Computing for Security Applications
Pergamon Computer Data Series
Concepts, Tools, and Techniques to Build Intelligent Systems
AFIPS Conference

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Proceedings
Application and
Design with
MATLAB®
Pasadena, CA, June
16-18, 1997
Knowledge Science,
Engineering and
Management
**Official Gazette
of the United
States Patent**

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**and Trademark O
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Electronics

Criteria: Digital

Computer

Systems IBM

Technical

Disclosure Bulleti

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Systems and App

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ngs of the 2018

Intelligent

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**Systems
Conference
(IntelliSys)**

Volume

1Springer

**Through a series
of recent
breakthroughs,
deep learning
has boosted the
entire field of
machine
learning. Now,
even**

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**programmers
who know close
to nothing about
this technology
can use simple,
efficient tools to
implement
programs
capable of
learning from
data. This
practical book
shows you how.
By using**

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**concrete
examples,
minimal theory,
and two
production-ready
Python framework
s—Scikit-Learn
and TensorFlow
—author Aurélien
Géron helps you
gain an intuitive
understanding of
the concepts and
tools for building**

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intelligent systems. You'll learn a range of techniques, starting with simple linear regression and progressing to deep neural networks. With exercises in each chapter to help you apply what you've learned,

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all you need is programming experience to get started. Explore the machine learning landscape, particularly neural nets Use Scikit-Learn to track an example machine-learning project end-to-end Explore

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several training models, including support vector machines, decision trees, random forests, and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net

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**architectures,
including
convolutional
nets, recurrent
nets, and deep
reinforcement
learning Learn
techniques for
training and
scaling deep
neural nets**

**The three volume
set LNCS 13155,
13156, and**

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**13157
constitutes the
refereed
proceedings of
the 21st
International
Conference on
Algorithms and
Architectures for
Parallel
Processing,
ICA3PP 2021,
which was held
online during**

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December 3-5, 2021. The total of 145 full papers included in these proceedings were carefully reviewed and selected from 403 submissions. They cover the many dimensions of parallel algorithms and

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architectures including fundamental theoretical approaches, practical experimental projects, and commercial components and systems. The papers were organized in topical sections

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**as follows: Part I,
LNCS 13155:
Deep learning
models and
applications;
software
systems and
efficient
algorithms; edge
computing and
edge
intelligence;
service
dependability**

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**and security
algorithms; data
science; Part II,
LNCS 13156:
Software
systems and
efficient
algorithms;
parallel and
distributed
algorithms and
applications;
data science;
edge computing**

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blockchain
systems; deep
learning models
and applications;
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science;
distributed and
network-based
computing; edge**

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**computing and
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intelligence;
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dependability
and security
algorithms;
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algorithms.
Report No. FRA-
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**International
Conference, IACC
2020, Panaji,
Goa, India,
December 5-6,
2020, Revised
Selected Papers,
Part I
HWM
Design Principles
and
Methodologies
Proceedings of
ICSCS 2021**

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Intelligent Technologies and Applications From Conceptualization to First Prototyping with Examples and Case Studies

Fundamental to the control of mechatronic devices, the

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servomechanism applies feedback from the device in question to regulate its position, velocity, or some other physical attribute. Successful mastery of servo control requires an understanding of a wide range of engineering

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disciplines, making it difficult and time-consuming to master it all—and even harder to find an all-encompassing guide that shows you how. DC Servos: Application and Design with MATLAB® is designed and

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written with this problem in mind. It breaks down the practical knowledge required from the various branches of applied science—electrical and mechanical engineering, analog electronics, mechanics, control theory, digital

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electronics,
embedded
computing, and
firmware
design—into a
cohesive and usable
framework. Today,
DC servos are
working around the
world in countless
applications—CD
players, ink-jet
printers, robots,

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machining centers, vending machines, eyeglass manufacturing machines, home appliances, and automotive seat positioners, just to name a few. This book balances coverage of theoretical and practical aspects of

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application and design of DC servomechanisms. It also provides detailed coverage of feedback transducers, particularly the application of optical encoders to real systems. It covers how to use the MATLAB® Control

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System Toolbox specifically for servo design, to make the design process faster and more interactive. It also presents two complete, bench-tested reference designs that can be duplicated using readily available parts, so you can

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build your own
servo and see it in
action. Author
Stephen M. Tobin is
an expert in motion
control and electro-
optical
instrumentation and
a respected
consultant in the
medical device and
manufacturing
automation

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communities. In order to instill confidence in the engineers, scientists, students, and hobbyists designing the ever more complex machines of the 21st century, Tobin guides the reader on a short journey through "servo

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school," imparting his lifelong passion for motion control along the way.

This two-volume set LNCS 12269 and LNCS 12270 constitutes the refereed proceedings of the 16th International Conference on Parallel Problem

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Solving from Nature, PPSN 2020, held in Leiden, The Netherlands, in September 2020.

The 99 revised full papers were carefully reviewed and selected from 268 submissions.

The topics cover classical subjects such as automated

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algorithm selection
and configuration;
Bayesian- and
surrogate-assisted
optimization;
benchmarking and
performance
measures;
combinatorial
optimization;
connection between
nature-inspired
optimization and

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artificial intelligence;
genetic and
evolutionary
algorithms; genetic
programming;
landscape analysis;
multiobjective
optimization; real-
world applications;
reinforcement
learning; and
theoretical aspects
of nature-inspired

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optimization.

This book introduces readers to the core principles and methodologies of product development, and highlights the interactions between engineering design and industrial

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design. It shows to what extent the two cultures can be reconciled, and conversely what makes each of them unique. Although the semantic aspect is fundamental in industrial design, while the functional aspect is essential for the industrial

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product, the interaction between the two worlds is strategically vital. Design is also a strategic problem-solving process that drives innovation, builds business success and leads to better quality of life through innovative products,

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systems, services
and experiences.
The book connects
product
development with
the concepts and
strategies of
innovation,
recognizing that
product design is a
complex process in
which invention,
consumers' role,

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industrial technologies, economics and the social sciences converge. After presenting several examples of artifacts developed up to the conceptual phase or built as prototypes, the book provides a case study on a

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packaging machine, showcasing the principles that should underlie all design activities, and the methods that must be employed to successfully establish a design process. The book is primarily targeted at professionals in

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the industry, design engineers and industrial designers, as well as researchers and students in design schools, though it will also benefit any reader interested in product design.

USITC Publication
Advanced Deep
Learning with

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Python

Build and train state-of-the-art natural language

processing models using BERT

Proceedings of the 2018 Intelligent Systems

Conference

(IntelliSys) Volume 1

IBM Technical

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Disclosure Bulletin
Proceedings
16th International
Conference, PPSN
2020, Leiden, The
Netherlands,
September 5-9,
2020, Proceedings,
Part I

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analysis and
practical

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better buying
decisions and
get more from
technology.

Getting
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will help you
become well-
versed with

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the BERT model
from scratch
and learn how
to create
interesting
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applications.
You'll
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variants of
BERT such as

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ALBERT,
RoBERTa,
DistilBERT,
ELECTRA,
VideoBERT, and
many others in
detail.

Singapore's
leading tech
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decide with
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informative
articles and
in-depth
reviews.

Advances in
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Automation and
Soft Computing
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(NSN 7010-01-1
53-0775) .

**AWM Research
Symposium,
Houston, TX,
April 2019
Introduction
to Fuzzy Logic
using MATLAB
Official
Gazette of the
United States**

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**Patent and
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**Hands-On
Machine
Learning with
Scikit-Learn,
Keras, and
TensorFlow**
*This book provides
a broad-ranging,*

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***but detailed
overview of the
basics of Fuzzy
Logic. The
fundamentals of
Fuzzy Logic are
discussed in detail,
and illustrated
with various solved
examples. The
book also deals
with applications
of Fuzzy Logic, to
help readers more***

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fully understand the concepts involved. Solutions to the problems are programmed using MATLAB 6.0, with simulated results. The MATLAB Fuzzy Logic toolbox is provided for easy reference. This two-volume set (CCIS

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**1367-1368)
constitutes
reviewed and
selected papers
from the 10th
International
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Computing
Conference, IACC
2020, held in
December 2020.
The 65 full papers
and 2 short papers
presented in two**

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***volumes were
thoroughly reviewed
and selected from
286 submissions.
The papers are
organized in the
following topical
sections:***

***Application of
Artificial
Intelligence and
Machine Learning
in Healthcare;
Using Natural***

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***Language
Processing for
Solving Text and
Language related
Applications; Using
Different Neural
Network
Architectures for
Interesting
applications; Using
AI for Plant and
Animal related
Applications.-
Applications of***

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***Blockchain and
IoT.- Use of Data
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Building
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Applications;
Innovations in
Advanced Network
Systems; Advanced
Algorithms for
Miscellaneous
Domains; New
Approaches in
Software***

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***Paper
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Solving from
Nature - PPSN XVI
Naval Shore
Electronics
Criteria: Digital
Computer Systems***