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Inspection Ieee

Computer Society

Visual

Inspection

Ieee

Computer

Society

Automation in

Garment

Manufacturing

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provides systematic
and comprehensive
insights into this
multifaceted process.

Chapters cover the
role of automation in
design and product
development,
including color
matching, fabric
inspection, 3D body
scanning, computer-

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aided design and
prototyping. Part

Two covers

automation in

garment production,

from handling,

spreading and

cutting, through to

finishing and

pressing techniques.

Final chapters

discuss advanced

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Computer Society

tools for assessing
productivity in
manufacturing,
logistics and supply-
chain management.

This book is a key
resource for all those
engaged in textile
and apparel
development and
production, and is
also ideal for

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academics engaged
Computer Society
in research on textile

science and

technology. Delivers

theoretical and

practical guidance

on automated

processes that

benefit anyone

developing or

manufacturing

textile products

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Offers a range of perspectives on manufacturing from an international team of authors Provides systematic and comprehensive coverage of the topic, from fabric construction, through product development, to

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current and potential
applications

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This is an invaluable
five-volume

reference on the very
broad and highly

significant subject of
computer aided and

integrated

manufacturing

systems. It is a set of
distinctly titled and

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well-harmonized
Computer Society

volumes by leading
experts on the
international
scene. The
techniques and
technologies used in
computer aided and
integrated
manufacturing
systems have
produced, and will

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no doubt continue to
produce, major

annual

improvements in

productivity, which

is defined as the

goods and services

produced from each

hour of work. This

publication deals

particularly with

more effective

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utilization of labor
and capital, Computer Society

especially

information

technology systems.

Together the five

volumes treat

comprehensively the

major techniques

and technologies that

are involved.

This is an up-to-date

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volume of selected
and expanded papers

originating from

Vision Interface 88,

a conference held in

Edmonton, Canada.

A broad range of

topics are covered-

from image

processing to

hardware design.

They include robot

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vision, biomedical

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imaging, remote

sensing and parallel

processing, shape

recognition and

features,

computational

methods in vision,

and three

dimensional vision

and application.

Contents:Measuring

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the Alignment

Accuracy of Surface

Mount Assembly

Circuit Board Masks

(D Gauthier et

al.) Automated

Detection of Breast

Tumors (S M Lai et

al.) Symbolic

Knowledge

Representation for

Remote Sensing (G

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Inspection (Lee

W Plunkett & D G G

Computer Society

oodenough) Contour

Tracing and

Parametric

Approximations for

Digitized Patterns (R

Legault & C Y

Suen) Estimating

Movement Direction

with a Neural

Network (W C

Treurniet) Space

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Station □ An
Computer Society

Application for

Computer Vision (K

H Doetsch & R C

Hughes)Integrating

Methodologies in

Image Analysis (T

Pavlidis & Y-T

Liow)and other

papers Readership:

Computer scientists.

Machine Vision:

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Theory, Algorithms, Practicalities covers the limitations, constraints, and tradeoffs of vision algorithms. This book is organized into four parts encompassing 21 chapters that tackle general topics, such as noise suppression,

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edge detection,
principles of
illumination, feature
recognition, Bayes's
theory, and Hough
transforms. Part 1
provides research
ideas on imaging
and image filtering
operations,
thresholding
techniques, edge

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detection, and binary
shape and boundary
pattern analyses.

Part 2 deals with the
area of intermediate-
level vision, the
nature of the Hough
transform, shape
detection, and corner
location. Part 3
demonstrates some
of the practical

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applications of the
basic work

previously covered
in the book. This

part also discusses
some of the

principles

underlying

implementation,

including on lighting

and hardware

systems. Part 4

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highlights the limitations and constraints of vision algorithms and their corresponding solutions. This book will prove useful to students with undergraduate course on vision for electronic engineering or

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computer science.

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Vision and

Information

Processing for

Automation

Applications of

Computer Vision in

Fashion and Textiles

Proceedings of the ...

Joint Automatic

Control Conference

Applications of

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Pattern Recognition
Fundamentals of

Robotics

Theory, Algorithms,
Practicalities

*Applications of
Computer Vision in
Fashion and Textiles
provides a systematic
and comprehensive
discussion of three
key areas that are*

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taking advantage of developments in computer vision technology, namely textile defect detection and quality control, fashion recognition and 3D modeling, and 2D and 3D human body modeling for improving clothing fit. It introduces the

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*fundamentals of
computer vision
techniques for
fashion and textile
applications, also
reviewing computer
vision techniques for
textile quality control,
including chapters on
wavelet transforms,
Gabor filters, Fourier
transforms, and
neural network*

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techniques. Final sections cover recognition, modeling, retrieval technologies and advanced human shape modeling techniques. The book is essential reading for scientists and researchers working in the field of fashion production, quality

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*assurance, product
development, textiles,*

fashion supply chain

managers, R&D

professionals and

managers in the

textile industry.

Explores computer

vision technology

with reference to

improving budget,

quality and schedule

control in textile

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manufacturing

Provides a thorough

understanding of the

role of computer

vision in developing

intelligent systems for

the fashion and

textiles industries

Elucidates the

connections between

human body

modeling technology

and intelligent

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*manufacturing
systems* Computer Society

*This six-volume set
presents cutting-edge
advances and
applications of expert
systems. Because
expert systems
combine the expertise
of engineers,
computer scientists,
and computer
programmers, each*

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group will benefit from buying this important reference work. An "expert system" is a knowledge-based computer system that emulates the decision-making ability of a human expert. The primary role of the expert system is to perform appropriate

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functions under the close supervision of the human, whose work is supported by that expert system. In the reverse, this same expert system can monitor and double check the human in the performance of a task. Human-computer interaction in our highly complex

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*world requires the
development of a wide
array of expert*

systems. Key Features

** Expert systems*

techniques and

applications are

presented for a

diverse array of topics

*including: **

Experimental design

and decision support

** The integration of*

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*machine learning
with knowledge
acquisition for the
design of expert
systems * Process
planning in design
and manufacturing
systems and process
control applications *
Knowledge discovery
in large-scale
knowledge bases *
Robotic systems **

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***Geographic
information systems ****

***Image analysis,
recognition and
interpretation ****

***Cellular automata
methods for pattern
recognition ****

***Real-
time fault tolerant
control systems ****

***CAD-based vision
systems in pattern
matching processes ****

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*Financial systems **

Agricultural

*applications **

Medical diagnosis

From traditional

topics that form the

core of industrial

electronics, to new

and emerging

concepts and

technologies, The

Industrial Electronics

Handbook, in a single

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volume, has the field covered. Nowhere else will you find so much information on so many major topics in the field. For facts you need every day, and for discussions on topics you have only dreamed of, The Industrial Electronics Handbook is an ideal reference.

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This book is the outcome of the successful NATO Advanced Study Institute on Pattern Recognition Theory and Applications, held at St. Anne's College, Oxford, in April 1981., The aim of the meeting was to review the recent advances in the

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*theory of pattern
recognition and to
assess its current and
future practical
potential. The theme
of the Institute - the
decision making
aspects of pattern
recognition with the
emphasis on the novel
hybrid approaches -
and its scope - a high
level tutorial coverage*

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Computer Society

*of pattern recognition
methodologies*

counterpointed with

contributed papers

on advanced

theoretical topics and

applications - are

faithfully reflected by

the volume. The

material is divided

into five sections: 1.

Methodology 2.

Image Understanding

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and Interpretation 3.

Medical Applications

4. Speech Processing

and Other

Applications 5. Panel

Discussions. The first

section covers a broad

spectrum of pattern

recognition

methodologies,

including geometric,

statistical, fuzzy set,

syntactic, graph-

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theoretic and hybrid approaches. Its coverage of hybrid methods places the volume in a unique position among existing books on pattern recognition. The second section provides an extensive treatment of the topical problem of image understanding

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*from both the
artificial intelligence
and pattern
recognition points of
view. The two
application sections
demonstrate the
usefulness of the
novel methodologies
in traditional pattern
'recognition
application areas.
They address the*

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*problems of
hardware/software
implementation and
of algorithm
robustness, flexibility
and general
reliability. The final
section reports on a
panel discussion held
during the Institute.
Intelligent Robots
and Computer Vision
Artificial Intelligence*

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Computer Society

And Automation

The First Footprints

Intelligent Systems

Technologies

Evolutionary

Computer Vision

Computer Vision,

Imaging and

Computer Graphics:

Theory and

Applications

Annotation.

Computer and

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Machine Vision:
Theory,

Algorithms,

Practicalities

(previously
entitled

Machine Vision)

clearly and

systematically

presents the

basic

methodology of

computer and

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*machine vision,
covering the
essential
elements of the
theory while
emphasizing
algorithmic and
practical
design
constraints.*

*This fully
revised fourth
edition has*

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Computer Society

*brought in more
of the concepts
and*

*applications of
computer*

*vision, making
it a very*

comprehensive

and up-to-date

tutorial text

suitable for

graduate

students,

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Computer Society

researchers and
R the first of
these has been
widely used
internationally
for more than
20 years, and
is now out in
this much
enhanced fourth
edition. Roy
holds a DSc at
the University

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Computer Society

*of London, and
has been*

awarded

Distinguished

Fellow of the

British Machine

Vision

Association,

and Fellow of

the

International

Association of

Pattern Recogni

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tion. Mathematics and essential theory are made approachable by careful explanations and well-illustrated examples. Updated content and new sections cover topics such as human iris

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location, image stitching, line detection using RANSAC, performance measures, and hyperspectral imaging. The 'recent developments' section now included in each chapter

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*will be useful
in bringing
students and
practitioners
up to date with
the subject.*

*This book
covers a
variety of
smart IoT
applications
for industry
and research.*

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*For industry,
the book is a
guide for
considering the
real-time
aspects of
automation of
application
domains. The
main topics
covered in the
industry
section include*

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*real-time
tracking and
navigation,
smart transport
systems and
application for
GPS domains,
modern electric
grid control
for electricity
industry, IoT
prospectives
for modern*

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*society, IoT
for modern
medical
science, and
IoT automation
for Industry
4.0. The book
then provides a
summary of
existing IoT
research that
underlines
enabling*

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*technologies,
such as fog
computing,
wireless sensor
networks, data
mining, context
awareness, real-
time analytics,
virtual
reality, and
cellular
communications.*

The book

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*pertains to
researchers,
outcome-based
academic
leaders, as
well as
industry
leaders.*

*This book
explains the
theory and
application of
evolutionary*

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computer

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vision, a new

paradigm where

challenging

vision problems

can be

approached

using the

techniques of

evolutionary

computing. This

methodology

achieves

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excellent
results for
defining
fitness
functions and
representations
for problems by
merging
evolutionary
computation
with
mathematical
optimization to

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produce

Computer Society

automatic

creation of

emerging visual

behaviors. In

the first part

of the book the

author surveys

the literature

in concise

form, defines

the relevant

terminology,

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and offers historical and philosophical motivations for the key research problems in the field. For researchers from the computer vision community, he offers a simple

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*introduction to
the*

evolutionary

computing

paradigm. The

second part of

the book

focuses on

implementing

evolutionary

algorithms that

solve given

problems using

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working programs in the major fields of low-, intermediate- and high-level computer vision. This book will be of value to researchers, engineers, and students in the

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*fields of
computer
vision,
evolutionary
computing,
robotics,
biologically
inspired
mechatronics,
electronics
engineering,
control, and
artificial*

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Inspection lee
intelligence.

Computer Society
The authors,

who have over

four decades of

experience in

the industry

and academia,

have enhanced

the coverage of

the work by

comprehensively

adding the

latest

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*developments in
the field. New
topics include
robot dynamics,
drives,
actuator
systems,
mechatronics,
modeling of
intelligent
systems based
on soft
computing*

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*techniques,
CAD/CAM based
numerical
control part
programming,
robotic
assembly in CIM
environment and
other
industrial
applications.*

*Computer Vision
for Electronics*

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Robotics

*Manufacturing
Robotics*

*Technology and
Flexible*

Automation

International

Joint

Conference,

VISIGRAPP 2009,

Lisboa,

Portugal,

February 5-8,

2009. Revised

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Selected Papers

Expert Systems,

Six-Volume Set

International

Encyclopedia of

Robotics

Robot Vision

Fundamentals of

Robotics

presents the

basic concepts

of robots to

engineering and

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**technology
students and to
practicing
engineers who
want to grasp
the fundamentals
in the growing
field of
robotics.**

**This book
contains the
manuscripts of
the papers
delivered at the**

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**International
Symposium on
Synergetics held
at SchloB Elmau,
Bavaria,
Germany, from
April 30 until
May 5, 1979.**

**This conference
followed several
previous ones
(Elmau 1972,
Sicily 1974,
Elmau 1977).**

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This time the subject of the symposium was "pattern formation by dynamic systems and pattern recognition". The meeting brought together scientists from such diverse fields as mathematics,

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*physics,
chemistry,
biology, history
as well as
experts in the
fields of
pattern
recognition and
associative
memory. When I
started this
type of
conference in
1972 it appeared*

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***to be a daring
enterprise.***

Indeed, we began

to explore

virgin land of

science: the

systematic study

of cooperative

effects in

physical systems

far from

equilibrium and

in other

disciplines.

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Though these meetings were attended by scientists from quite different disciplines, a basic concept and even a common language were found from the very beginning. The idea that there exist profound

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Computer Society

***analogies in the
behaviour of
large classes of
complex systems,
though the
systems
themselves may
be quite
different,
proved to be
most fruitful. I
was delighted to
see that over
the past one or***

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Computer Society

**two years quite
similar
conferences were
now held in
various places
allover the
world. The
inclusion of
prob lems of
pattern
recognition at
the present
meeting is a
novel feature,**

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however.

Contents: A New

Way to Acquire

Knowledge (H-Y

Wang) An SPN

Knowledge

Representation

Scheme (J

Gattiker & N

Bourbakis) On the

Deep Structures

of Word Problems

and Their

Construction (F

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Gomez) Resolving
Conflicts in

Inheritance

Reasoning with

Statistical

Approach (C W

Lee) Integrating

High and Low

Level Computer

Vision for Scene

Understanding (R

Malik & S So) The

Evolution of

Commercial AI

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***Tools: The First
Decade (F Hayes-
Roth) Reengineeri
ng: The AI***

Generation -

***Billions on the
Table (J S Minor
Jr) An***

***Intelligent Tool
for Discovering
Data***

***Dependencies in
Relational DBS***

(P Gavaskar & F

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Golshani) A Case-

Based Reasoning

(CBR) Tool to

Assist Traffic

Flow (B Das & S

Bayles) A Study

of Financial

Expert System

Based on Flops

(T Kaneko & K

Takenaka) An

Associative Data

Parallel

Compilation

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**Model for Tight
Integration of
High Performance
Knowledge**

**Retrieval and
Computation (A K
Bansal) Software**

**Automation: From
Silly to**

**Intelligent (J-F
Xu et**

**al.) Software
Engineering**

Using Artificial

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***Intelligence:
The Knowledge
Based Software
Assistant (D
White) Knowledge
Based Derivation
of Programs from
Specifications
(T Weight et
al.) Automatic
Functional Model
Generation for
Parallel Fault
Design Error***

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**Simulations (S-E
Chang & S A**

**Szygenda) Visual
Reverse**

Engineering

Using SPNs for

Automated

Diagnosis and

Functional

Simulation of

Digital Circuits

(J Gattiker & S

Mertoguno) The

Impact of AI in

Read PDF

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Computer Society

**VLSI Design
Automation (M
Mortazavi & N
Bourbakis)The
Automated
Acquisition of S
ubcategorization
s of Verbs,
Nouns and
Adjectives from
Sample Sentences
(F Gomez)General
Method for
Planning and**

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Rendezvous

Problems (K I

Trovato) Learning

to Improve Path

Planning

Performance (P C

Chen) Incremental

Adaptation as a

Method to

Improve Reactive

Behavior (A J

Hendriks & D M

Lyons) An SPN-

Neural Planning

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***Methodology for
Coordination of
Multiple Robotic
Arms with
Constrained
Placement (N
Bourbakis & A
Tascillo)
Readership:
Computer
scientists,
artificial
intelligence
practitioners***

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Computer Society

***and robotics
users. keywords:***

***The main focus
of this book is
on the uses of
computer vision
for inspection
and model based
matching. It
also provides a
short, self
contained
introductory
course on***

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***computer vision.
The authors
describe various
state-of-the-art
approaches to
problems and then
set forth their
proposed
approach to
matching and
inspection. They
deal primarily
with 3-D vision
but also discuss***

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2-D vision strategies when relevant. The book is suitable for researchers, final year undergraduates and graduate students. Useful review questions at the end of each chapter allow this book to be used for

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self-study.

Computer Society

the

International

Symposium on

Synergetics at

Schloß Elmau,

Bavaria, April

30 – May 5, 1979

Computer Aided

and Integrated

Manufacturing

Systems

Advances in

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**Machine Vision
Second Pacific
Rim Symposium,
PSIVT 2007
Santiago, Chile,
December 17-19,
2007 Proceedings
Syntactic and
Structural
Pattern
Recognition –
Theory and
Applications
The Technology**

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***of Knowledge
Management and
Decision Making
for the 21st
Century***

This is an
invaluable five-
volume reference
on the very broad
and highly
significant subject
of computer aided

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and integrated manufacturing systems. It is a set of distinctly titled and well-harmonized volumes by leading experts on the international scene. The techniques and technologies used

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in computer aided
and integrated
manufacturing
systems have
produced, and will
no doubt continue
to produce, major
annual
improvements in
productivity,
which is defined
as the goods and

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services produced
from each hour of
work. This

publication deals
particularly with
more effective
utilization of labor
and capital,
especially
information
technology
systems. Together

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Computer Society

the five volumes
treat

comprehensively
the major
techniques and
technologies that
are involved.

Contents: .: Neural
Networks

Techniques for the
Optical Inspection
of Machined Parts

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Inspection (Lee

(N Guglielmi et

al.); Computer

Techniques and

Applications of

Automated

Process Planning

in Manufacturing

Systems (K A

Aldakhilallah & R

Ramesh); Internet-

Based

Manufacturing

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Systems:

Techniques and Applications (H Lau); and other articles.

Readership:

Graduate students, academics, researchers, and industrialists in computer

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engineering,
industrial

engineering,
mechanical

engineering,
systems

engineering,
artificial

intelligence and
operations

management

Progress in

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Pattern

Recognition 1

Maintenance is a critical variable in industry to

achieve

competitiveness.

Therefore, correct management of

corrective,

predictive, and

preventive politics

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in any industry is
Computer Society
required.

Maintenance

Management

considers the

main concepts,

state of the art,

advances, and

case studies in

this topic. This

book

complements

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other

subdisciplines

such as

economics,

finance,

marketing,

decision and risk

analysis,

engineering,

etc. The book

analyzes real case

studies in multiple

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disciplines. It considers the topics of failure detection and diagnosis, fault trees, and subdisciplines (e.g. FMECA, FMEA, etc.). It is essential to link these topics with finance,

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scheduling,
resources,
downtime, etc. to
increase
productivity,
profitability,
maintainability,
reliability, safety,
and availability,
and reduce costs
and
downtime. This

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book presents
important
advances in
mathematics,
models,
computational
techniques,
dynamic analysis,
etc., which are all
employed in
maintenance man
agement. Computa

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tional techniques,
dynamic analysis,
probabilistic
methods, and
mathematical
optimization
techniques are
expertly blended
to support the
analysis of
multicriteria
decision-making

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problems with
defined

constraints and
requirements. The
book is ideal for
graduate students
and professionals
in industrial
engineering,
business
administration,
industrial

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organization,
operations
management,
applied
microeconomics,
and the decisions
sciences, either
studying
maintenance or
who are required
to solve large,
specific, and

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complex

maintenance

management

problems as part

of their jobs. The

book will also be

of interest to

researchers from

academia.

This volume

gathers the peer

reviewed papers

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which were
presented at the
third edition of the
International
Workshop

“Service

Orientation in

Holonic and Multi-
agent

Manufacturing and
Robotics -

SOHOMA'13”

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organized on June
20-22, 2013 by

the Centre of

Research in

Computer

Integrated

Manufacturing and

Robotics - CIMR

Bucharest, and

hosted by the

University of

Valenciennes,

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France. The book is structured in five parts, each one covering a specific research domain which represents a trend for modern manufacturing control:

Distributed Intelligence for

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Sustainable
Manufacturing,
Holonc and Multi-
Agent

Technologies for
Manufacturing
Planning and
Control; Service
Orientation in
Manufacturing
Management and
Control, Intelligent

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Products and
Product-driven
Automation and
Robotics for
Manufacturing and
Services. These
five evolution lines
have in common
concepts related
to service
orientation in a
distributed

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planning and
control agent-
based industrial
environment;
today it is
generally
recognized that
the Service
Oriented
Enterprise
Architecture
paradigm has

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been looked upon as a suitable and effective approach for industrial automation and management of manufacturing enterprises.

Proceedings of the NATO Advanced Study Institute held at St. Anne's

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Inspection, Lee

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College, Oxford,
March 29–April 10,
1981

May 6-7, 1982,
Arlington, Virginia
November 5-8,
1984, Cambridge,
Massachusetts

Proceedings of
ICCCES 2019

Volume 2:
Intelligent

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Systems
Technologies
Progress in
Pattern
Recognition 1

This is an
invaluable five-
volume
reference on
the very broad
and highly
significant

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subject of
computer aided
and integrated
manufacturing
systems. It is
a set of
distinctly
titled and well-
harmonized
volumes by
leading experts
on the
international

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scene. The techniques and technologies used in computer aided and integrated manufacturing systems have produced, and will no doubt continue to produce, major annual

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improvements in
productivity,

which is

defined as the

goods and

services

produced from

each hour of

work. This

publication

deals

particularly

with more

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effective
utilization of
labor and
capital,
especially
information
technology
systems.

Together the
five volumes
treat
comprehensively
the major

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techniques and
technologies

that are
involved.

This volume
contains the
full

proceedings of
the Fourth

Advanced Study
Institute

organised by
myself and my

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colleagues in .

* the field of

Communication

Theory and

Allied

Subjects. In

the first

Institute we

associated the

subject of

signal

processing in

communication

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with that in
control

engineering.

Then we

concentrated on

noise and

random

phenomena by

bringing in as

well the

subject of

stochastic

calculus. The

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third time our
subject was

multi-user

communication

and associated

with it, the

important

problem of

assessing

algorithmic

complexity.

This time we

are concerned

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with the vast
increase of
computational
power that is
now available
in
communication
systems
processors and
controllers.
This forces a
mathematical,
algorithmic and

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structural
approach to the
solution of
computational
requirements
and design
problems, in
contrast to
previous
heuristic and
intuitive
methods. We are
also concerned

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with the
interactions
and trade-offs
between the
structure,
speed, and
complexity of a
process, and
between
software and
hardware implem
entations. At
the previous

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Advanced Study
Institute in
this series, on
Multi-User
Communications,
there was a
session on
computational
complexity,
applied
particularly to
network routing
problems. It

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was the aim of
this Institute
to expand this
topic and to
link it with
information
theory, random
processes,
pattern
analysis, and
implementation
aspects of
communication

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processors. The first part of these proceedings concentrates on pattern and structure in communications processing. In organising this session I was greatly helped and guided by

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Professor P. G.

Farrell and

Professor J. L.

Massey.

DEFECT

PROPORTION OF

DETECTION

INITIAL RATE

DETECTION RATE

INSPECTOR 3

COMPLEXITY OF

TIMES PAN OF

PERFORMING ○ ~ —

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Inspection leee
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— — — ; .
INSPECTION TASK
— ; . VISUAL
INSPECTION

Figure 1.
Trends in
relations
between the
complexity of
inspection

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tasks, defect
detection rates
(absolute and
relative), and
inspection
time.

Irrespective of
the necessities
described
above, and with
the exception
of specific
generic

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Inspection

application
Computer Society

systems (e.g.,
bare-board PCB
inspection,
wafer
inspection,
solder joint
inspection,
linewidth
measurement),
vision systems
are still not
found

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frequently in
today's

electronics
factories.

Besides cost,

some major

reasons for

this absence

are: 1. The

detection

robustness or

accuracy is

still

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insufficient.

2. The total inspection time is often too high, although this can frequently be attributed to mechanical handling or sensing. 3.

There are persistent gaps

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among process
engineers, CAD
engineers,
manufacturing
engineers, test
specialists,
and computer
vision
specialists, as
problems
dominate the
day-to-day
interactions

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and prevent the
establishment

of trust. 4.

Computer vision
specialists

sometimes still

believe that

their

contributions

are universal,

so that

adaptation to

each real

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Inspection lee

Computer Society

problem becomes
tedious, or

stumbles over

the

insufficient

availability of

multidisciplina

ry expertise.

Whether we like

it or not, we

must still use

appropriate

sensors,

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lighting, and
combinations
of algorithms
for each class
of

applications;

likewise, we

cannot design

mechanical

handling,

illumination,

and sensing in

isolation from

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each other.

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This book

includes high

impact papers

presented at

the

International

Conference on

Communication,

Computing and

Electronics

Systems 2019,

held at the PPG

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Institute of
Technology,
Coimbatore,
India, on 15-16
November, 2019.
Discussing
recent trends
in cloud
computing,
mobile
computing, and
advancements of
electronics

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systems, the
book covers
topics such as
automation,
VLSI, embedded
systems,
integrated
device
technology,
satellite
communication,
optical
communication,

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RF

communication,
microwave
engineering,
artificial
intelligence,
deep learning,
pattern
recognition,
Internet of
Things,
precision
models,

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bioinformatics,
Computer Society
and healthcare

informatics.

Advances in

Image and Video

Technology

Automation in

Garment

Manufacturing

Computer and

Machine Vision

International

Conference on

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Communication,
Computing and

Electronics

Systems

Applications

and Automation

Computer Vision

and Shape

Recognition

**This book includes
extended versions
of the selected
papers from**

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**VISIGRAPP 2009,
the International
Joint Conference
on Computer
Vision, Imaging
and Computer
Graphics Theory
and Applications,
which was held in
Lisbon, Portugal,
during February
5-8, 2009 and
organized by the
Institute for**

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**Systems and
Technologies of
Information,
Control and
Communication
(INSTICC).
VISIGRAPP
comprises three
component
conferences,
namely, the
International
Conference on
Computer Vision**

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Theory and Applications (VISAPP), the International Conference on Computer Graphics Theory and Applications (GRAPP), and the International Conference on Imaging Theory and Applications (IMAGAPP).

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VISIGRAPP received a total of **422** paper submissions from more than **50** countries. From these, and after a rigorous double-blind evaluation method, **72** papers were published as full papers. These figures show that **this conference is**

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**now an established
venue for
researchers in the
broad fields of
computer vision,
computer graphics
and image
analysis. From the
full papers, 25
were selected for
inclusion in this
book. The selection
process was based
on the scores**

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**assigned by the
Program
Committee
reviewers as well
as the Session
Chairs. After
selection, the
papers were
further revised and
extended by the
authors. Our
gratitude goes to
all contributors
and referees,**

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without whom this book would not have been possible.

This book is currently the only one on this subject containing both introductory material and advanced recent research results. It presents, at one end, fundamental

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concepts and notations developed in syntactic and structural pattern recognition and at the other, reports on the current state of the art with respect to both methodology and applications. In particular, it includes artificial

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intelligence related techniques, which are likely to become very important in future pattern recognition. The book consists of individual chapters written by different authors. The chapters are grouped into broader subject

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areas like

“Syntactic

Representation

and Parsing”,

“Structural

Representation

and Matching”,

“Learning”, etc.

Each chapter is a

self-contained

presentation of

one particular

topic. In order to

keep the original

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flavor of each contribution, no efforts were undertaken to unify the different chapters with respect to notation.

Naturally, the self-containedness of the individual chapters results in some redundancy.

However, we

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believe that this handicap is compensated by the fact that each contribution can be read individually without prior study of the preceding chapters. A unification of the spectrum of material covered by the individual chapters is

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**provided by the
subject and author
index included at
the end of the
book. Contents:Intr
oduction and
Overview (M G
Thomason)String
Grammars for
Syntactic Pattern
Recognition (H
Bunke)Parsing and
Error-Correcting
Parsing for String**

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**Grammars (E
Tanaka)Array,
Tree, and Graph
Grammars (A
Rosenfeld)String
Matching for
Structural Pattern
Recognition (H
Bunke)Matching
Tree Structures (A
Sanfeliu)Matching
Relational
Structures Using
Discrete**

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Inspection (Lee

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Relaxation (L G

Shapiro & R M

Haralick)Random

Graphs (A K C

Wong et

al.)Grammatical

Inference (L

Miclet)An

Algorithm for

Inferring Context-

Free Array

Grammars (P S P

Wang & X W

Dai)Hybrid Pattern

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Inspection

Recognition

Methods (H

Bunke)Combining

Statistical and

Structural Methods

(W H

Tsai)Industrial

Applications (H S B

aird)Three-

Dimensional Object

Recognition by

Attributed Graphs

(E K Wong)Chinese

Character

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**Recognition (J W
Tai & Y J Liu)Table
Driven Parsing for
Shape Analysis (T
C Henderson & A
Samal)A General
Purpose Line
Drawing Analysis
System (R
Mohr)ECG Analysis
(E Skordalakis)
Readership:
Graduates,
undergraduates,**

Page 165/202

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**researchers and
practising
professionals in
pattern
recognition.**

**Evaluation of
Multicomputers for
Imaging
Processing covers
the proceedings of
the 1984 Tanque
Verde Workshop,
held in Tucson.
This book is**

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organized into four parts

encompassing 17

chapters that

summarize the

benchmark

evaluation efforts

specific to

multicomputer

systems designed

for the efficient

execution of image

processing tasks.

The first part

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considers the basic problem of benchmarking and presents an evaluation procedure or sets of instructions for establishing benchmark routines, tasks, and procedures. The next part deals with the simulation and evaluation.

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This part first examines semiconductor chips designed for use in imaging processing followed by the presentation of formulas for measuring algorithms, architecture efficiency, speedup, and

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**processing
element utilization
for SIMD/MIMD
multicomputers.**

**This part also
considers the
image processing
systems composed
of various types of
networks of
processing
elements. The
third part
describes a conten**

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**t-addressable
array and its
applications to
machine vision, as
well as the
architecture and
programming
methods of the
WARP
multicomputer.
This part further
looks into the
elevation
measurements**

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**techniques by
registering stereo
pairs obtained
from aerial
photography using
""pass point""
correlation
methods. The
concluding part
highlights the
hardware
implementations of
general-purpose
image processing**

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**systems with
associated**

**performance
evaluations.**

**Computer
scientists and
engineers will
greatly benefit
from this book.**

**This volume
collects the papers
accepted for
presentation at the
Second European**

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**Conference on
Computer Vision,
held in Santa
Margherita Ligure,
Italy, May 19-22,
1992. Sixteen long
papers, 41 short
papers and 48
posters were
selected from 308
submissions. The
contributions are
structured into 14
sections reflecting**

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the major research topics in computer vision currently investigated worldwide. The sections are entitled: features, color, calibration and matching, depth, stereo-motion, tracking, active vision, binocular heads, curved surfaces

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Inspection, lee

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**and objects,
reconstruction and
shape, recognition,
and applications.**

**Computer Vision,
Models, and
Inspection**

**Service Orientation
in Holonic and**

Multi-Agent

**Manufacturing and
Robotics**

Maintenance

Management

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COMPSAC79, the

IEEE Computer

Society's Third

International

Computer Software

& Applications

Conference,

November 5,

Tutorial, November

6-8, 1979,

Conference, the

Palmer House,

Chicago, Illinois

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**Machine Vision
Picture**

Engineering

**This book
constitutes
the refereed
proceedings of
the Second
Pacific Rim
Symposium on
Image and
Video**

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Technology,
Computer Society
PSIVT 2007,
held in
Santiago,
Chile, in
December 2007.
The 75 revised
full papers
presented
together with
four keynote
lectures were

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carefully
Computer Society
reviewed and
selected from
155
submissions.
The symposium
features
ongoing
research
including all
aspects of
video and

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multimedia,
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both technical

and artistic

perspectives

and both

theoretical

and practical

issues.

Machine Vision

technology is

becoming an

indispensible

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part of the
Computer Society
manufacturing

industry.

Biomedical and

scientific

applications

of machine

vision and

imaging are

becoming more

and more

sophisticated,

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Inspection lee

and new
Computer Society

applications

continue to

emerge. This

book gives an

overview of

ongoing

research in

machine vision

and presents

the key issues

of scientific

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and practical
Computer Society
interest. A

selected board

of experts

from the US,

Japan and

Europe

provides an

insight into

some of the

latest work

done on

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machine vision

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systems and

appliccations.

Developments

in electronic

hardware,

particularly m

icroprocessors

and solid-

state cameras,

have resulted

in a vast

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explosion in
the range and
variety of
applications
to which
intelligent
processing may
be applied to
yield cost-
effective
automation.

Typical

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Inspection lee

examples

Computer Society

include

automated

visual

inspection and

repetitive

assembly. The

technology

required is

recent and

specialized,

and is thus

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not widely

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known. VISION

AND

INFORMATION

PROCESSING FOR

AUTOMATION has

arisen from a

short course

given by the

authors to

introduce

potential

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users to the
Computer Society
technology.

Its content is
a development
and extension
of material
presented in
the course.

The objective
of the book is
to introduce
readers to

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modern

Computer Society

concepts and

techniques

basic to

intelligent

automation,

and explain

how these are

applied to

practical

problems. Its

emphasis is on

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machine

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vision.

Intelligent in

strumentation

is concerned

with

processing

infor mation,

and an

appreciation

of the nature

of information

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is essential
in configuring
instrumentatio
n to handle it
efficiently.

An understand
ing of the
fundamental
principles of
efficient
computation
and of the way

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in which machines make decisions is vital for the same reasons. Selection of appropriate sensing (e.g., camera type and configuration), of illumination,

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of hardware
for processing
(microchip or
parallel
processor?) to
give most
effective
information
flow, and of
the most
appropriate
processing

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algorithms is
Computer Society

critical in

obtaining an

optimal

solution.

Analysis of

performance,

to demonstrate

that

requirements

have been met,

and to

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identify the
Computer Society
causes if they

have not, is

also

important. All

of these

topics are

covered in

this volume.

This monograph

is intended to

cover several

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major

applications

of pattern

recognition.

After a brief

introduction

to pattern

recognition in

Chapter 1, the

two major

approaches,

statistical

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approach and
Computer Society
syntactic

approach, are

reviewed in

Chapter 2, and

3,

respectively.

Other topics

include the

application of

pattern

recognition to

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seismic wave i
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nterpretation,

to system

reliability

problems, to

medical data

analysis, as

well as

character and

speech

recognition.

Computer

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Vision--ECCV

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'92

Computer Aided

and Integrated

Manufacturing

Systems:

Intelligent

systems

technologies

The Industrial

Electronics

Handbook

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Pattern

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Recognition

Theory and

Applications

The Impact of

Processing

Techniques on

Communications

Pattern

Formation by

Dynamic

Systems and

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Recognition