

Online Library Person Re
Identification By Shaogang
Gong

Person Re
Identification By
Shaogang Gong

*The two volumes LNCS 11935 and
11936 constitute the proceedings of the*

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*9th International Conference on
Intelligence Science and Big Data
Engineering, IScIDE 2019, held in
Nanjing, China, in October 2019. The
84 full papers presented were carefully
reviewed and selected from 252
submissions. The papers are organized in*

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two parts: visual data engineering; and big data and machine learning. They cover a large range of topics including information theoretic and Bayesian approaches, probabilistic graphical models, big data analysis, neural networks and neuro-informatics,

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*bioinformatics, computational biology
and brain-computer interfaces, as well
as advances in fundamental pattern
recognition techniques relevant to image
processing, computer vision and machine
learning.*

The eight-volume set comprising LNCS

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volumes 9905-9912 constitutes the refereed proceedings of the 14th European Conference on Computer Vision, ECCV 2016, held in Amsterdam, The Netherlands, in October 2016. The 415 revised papers presented were carefully reviewed and selected from

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1480 submissions. The papers cover all aspects of computer vision and pattern recognition such as 3D computer vision; computational photography, sensing and display; face and gesture; low-level vision and image processing; motion and tracking; optimization methods; physics-

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*based vision, photometry and shape-
from-X; recognition: detection,
categorization, indexing, matching;
segmentation, grouping and shape
representation; statistical methods and
learning; video: events, activities and
surveillance; applications. They are*

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*organized in topical sections on
detection, recognition and retrieval;
scene understanding; optimization; image
and video processing; learning; action,
activity and tracking; 3D; and 9 poster
sessions.*

Group and Crowd Behavior for

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Computer Vision provides a multidisciplinary perspective on how to solve the problem of group and crowd analysis and modeling, combining insights from the social sciences with technological ideas in computer vision and pattern recognition. The book

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answers many unresolved issues in group and crowd behavior, with Part One providing an introduction to the problems of analyzing groups and crowds that stresses that they should not be considered as completely diverse entities, but as an aggregation of people.

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Part Two focuses on features and representations with the aim of recognizing the presence of groups and crowds in image and video data. It discusses low level processing methods to individuate when and where a group or crowd is placed in the scene, spanning

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from the use of people detectors toward more ad-hoc strategies to individuate group and crowd formations. Part Three discusses methods for analyzing the behavior of groups and the crowd once they have been detected, showing how to extract semantic information,

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predicting/tracking the movement of a group, the formation or disaggregation of a group/crowd and the identification of different kinds of groups/crowds depending on their behavior. The final section focuses on identifying and promoting datasets for group/crowd

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analysis and modeling, presenting and discussing metrics for evaluating the pros and cons of the various models and methods. This book gives computer vision researcher techniques for segmentation and grouping, tracking and reasoning for solving group and crowd

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modeling and analysis, as well as more general problems in computer vision and machine learning. Presents the first book to cover the topic of modeling and analysis of groups in computer vision
Discusses the topics of group and crowd modeling from a cross-disciplinary

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perspective, using social science

anthropological theories translated into

computer vision algorithms Focuses on

group and crowd analysis metrics

Discusses real industrial systems dealing

with the problem of analyzing groups

and crowds

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The two-volume set LNCS 7732 and 7733 constitutes the thoroughly refereed proceedings of the 19th International Conference on Multimedia Modeling, MMM 2012, held in Huangshan, China, in January 2013. The 30 revised regular papers, 46 special session papers, 20

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poster session papers, and 15 demo session papers, and 6 video browser showdown were carefully reviewed and selected from numerous submissions. The two volumes contain papers presented in the topical sections on multimedia annotation I and II,

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*interactive and mobile multimedia,
classification, recognition and tracking I
and II, ranking in search, multimedia
representation, multimedia systems,
poster papers, special session papers,
demo session papers, and video browser
showdown.*

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From Pixels to Semantics

*Intellectual Life in the Chunqiu Period,
722-453 B.C.E.*

*Second Chinese Conference, PRCV
2019, Xi'an, China, November 8-11,
2019, Proceedings, Part I
ECAI 2016*

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*2006 IEEE Conference on Advanced
Video and Signal Based Surveillance
(Avss)*

*7th International Conference, PReMI
2017, Kolkata, India, December 5-8,
2017, Proceedings*

Foundations of Confucian Thought

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The three volume set LNCS 7583, 7584 and 7585 comprises the Workshops and Demonstrations which took place in connection with the European Conference on Computer Vision, ECCV 2012, held in Firenze, Italy, in October 2012. The total of 179 workshop papers and 23

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demonstration papers was carefully reviewed and selected for inclusion in the proceedings. They were held at workshops with the following themes: non-rigid shape analysis and deformable image alignment; visual analysis and geo-localization of large-scale imagery; Web-scale vision and

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social media; video event
categorization, tagging and retrieval;
re-identification; biological and
computer vision interfaces; where
computer vision meets art; consumer
depth cameras for computer vision;
unsolved problems in optical flow
and stereo estimation; what's in a

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face?; color and photometry in
computer vision; computer vision in
vehicle technology: from earth to
mars; parts and attributes; analysis
and retrieval of tracked events and
motion in imagery streams; action
recognition and pose estimation in
still images; higher-order models and

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global constraints in computer vision; information fusion in computer vision for concept recognition; 2.5D sensing technologies in motion: the quest for 3D; benchmarking facial image analysis technologies.

This book covers aspects of human re-

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identification problems related to computer vision and machine learning. Working from a practical perspective, it introduces novel algorithms and designs for human re-identification that bridge the gap between research and reality. The primary focus is on building a robust,

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reliable, distributed and scalable smart surveillance system that can be deployed in real-world scenarios. This book also includes detailed discussions on pedestrian candidates detection, discriminative feature extraction and selection, dimension reduction, distance/metric learning,

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and decision/ranking enhancement. This book is intended for professionals and researchers working in computer vision and machine learning. Advanced-level students of computer science will also find the content valuable. This book offers a comprehensive

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introduction to advanced methods for image and video analysis and processing. It covers deraining, dehazing, inpainting, fusion, watermarking and stitching. It describes techniques for face and lip recognition, facial expression recognition, lip reading in videos,

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moving object tracking, dynamic scene classification, among others. The book combines the latest machine learning methods with computer vision applications, covering topics such as event recognition based on deep learning, dynamic scene classification

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based on topic model, person re-identification based on metric learning and behavior analysis. It also offers a systematic introduction to image evaluation criteria showing how to use them in different experimental contexts. The book offers an example-based practical

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guide to researchers, professionals and graduate students dealing with advanced problems in image analysis and computer vision.

The research in content-based indexing and retrieval of visual information such as images and video has become one of the most

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populated directions in the vast area of information technologies. Social networks such as YouTube, Facebook, FileMobile, and DailyMotion host and supply facilities for accessing a tremendous amount of professional and user generated data. The areas of societal activity,

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such as, video protection and security, also generate thousands and thousands of terabytes of visual content. This book presents the most recent results and important trends in visual information indexing and retrieval. It is intended for young researchers, as well as, professionals

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looking for an algorithmic solution to a problem.

Selected works presented at the
ICCVBIC 2018, Coimbatore, India
Pattern Recognition and Machine
Intelligence

14th European Conference,
Amsterdam, The Netherlands,

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October 11-14, 2016, Proceedings,

Part I

Introduction to Semi-supervised
Learning

Person Re-Identification

Visual Indexing and Retrieval

14th European Conference,

Amsterdam, The Netherlands,

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October 11-14, 2016, Proceedings,
Part IV

*Similarity between
objects plays an
important role in both
human cognitive
processes and artificial*

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*systems for recognition
and categorization. How
to appropriately measure
such similarities for a
given task is crucial to
the performance of many
machine learning,*

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*pattern recognition and
data mining methods.*

*This book is devoted to
metric learning, a set
of techniques to
automatically learn
similarity and distance*

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*functions from data that
has attracted a lot of
interest in machine
learning and related
fields in the past ten
years. In this book, we
provide a thorough*

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*review of the metric
learning literature that
covers algorithms,
theory and applications
for both numerical and
structured data. We
first introduce relevant*

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*definitions and classic
metric functions, as
well as examples of
their use in machine
learning and data
mining. We then review a
wide range of metric*

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*learning algorithms,
starting with the simple
setting of linear
distance and similarity
learning. We show how
one may scale-up these
methods to very large*

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*amounts of training
data. To go beyond the
linear case, we discuss
methods that learn
nonlinear metrics or
multiple linear metrics
throughout the feature*

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*space, and review
methods for more complex
settings such as multi-
task and semi-supervised
learning. Although most
of the existing work has
focused on numerical*

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data, we cover the literature on metric learning for structured data like strings, trees, graphs and time series. In the more technical part of the

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*book, we present some
recent statistical
frameworks for analyzing
the generalization
performance in metric
learning and derive
results for some of the*

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*algorithms presented
earlier. Finally, we
illustrate the relevance
of metric learning in
real-world problems
through a series of
successful applications*

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*to computer vision,
bioinformatics and
information retrieval.
The first book of its
kind dedicated to the
challenge of person re-
identification, this*

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*text provides an in-
depth, multidisciplinary
discussion of recent
developments and state-
of-the-art methods.*

*Features: introduces
examples of robust*

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*feature representations,
reviews salient feature
weighting and selection
mechanisms and examines
the benefits of semantic
attributes; describes
how to segregate*

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*meaningful body parts
from background clutter;
examines the use of 3D
depth images and
contextual constraints
derived from the visual
appearance of a group;*

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*reviews approaches to
feature transfer
function and distance
metric learning and
discusses potential
solutions to issues of
data scalability and*

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*identity inference;
investigates the
limitations of existing
benchmark datasets,
presents strategies for
camera topology
inference and describes*

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*techniques for improving
post-rank search
efficiency; explores the
design rationale and
implementation
considerations of
building a practical re-*

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*identification system.
The three-volume set
LNCS 11857, 11858, and
11859 constitutes the
refereed proceedings of
the Second Chinese
Conference on Pattern*

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*Recognition and Computer
Vision, PRCV 2019, held
in Xi'an, China, in
November 2019. The 165
revised full papers
presented were carefully
reviewed and selected*

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*from 412 submissions.
The papers have been
organized in the
following topical
sections: Part I: Object
Detection, Tracking and
Recognition, Part II:*

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*Image/Video Processing
and Analysis, Part III:
Data Analysis and
Optimization.*

*This unique
text/reference provides
a coherent and*

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*comprehensive overview
of all aspects of video
analysis of humans.*

*Broad in coverage and
accessible in style, the
text presents original
perspectives collected*

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*from preeminent
researchers gathered
from across the world.
In addition to
presenting state-of-the-
art research, the book
reviews the historical*

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*origins of the different
existing methods, and
predicts future trends
and challenges.*

*Features: with a
Foreword by Professor
Larry Davis; contains*

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*contributions from an
international selection
of leading authorities
in the field; includes
an extensive glossary;
discusses the problems
associated with*

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*detecting and tracking
people through camera
networks; examines
topics related to
determining the time-
varying 3D pose of a
person from video;*

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*investigates the
representation and
recognition of human and
vehicular actions;
reviews the most
important applications
of activity recognition,*

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*from biometrics and
surveillance, to sports
and driver assistance.*

*16th European
Conference, Glasgow, UK,
August 23-28, 2020,
Proceedings, Part XVII*

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*Computer Vision - ECCV
2018*

*Computer Vision -- ECCV
2014*

*Zurich, Switzerland,
September 6-7 and 12,
2014, Proceedings, Part*

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III

*Computer Vision - ECCV
2020*

*Advances in Multimedia
Modeling*

*Synthetic Data for Deep
Learning*

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The book provides insights into the Second International Conference on Computer Vision & Image Processing (CVIP-2017) organized by Department of Computer Science and Engineering of Indian Institute of Technology Roorkee.

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The book presents technological progress and research outcomes in the area of image processing and computer vision. The topics covered in this book are image/video processing and analysis; image/video formation and display;

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image/video filtering, restoration,
enhancement and super-resolution;
image/video coding and
transmission; image/video storage,
retrieval and authentication;
image/video quality; transform-
based and multi-resolution

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image/video analysis; biological and perceptual models for image/video processing; machine learning in image/video analysis; probability and uncertainty handling for image/video processing; motion and tracking; segmentation and

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recognition; shape, structure and stereo.

This book constitutes the refereed proceedings of the 40th German Conference on Pattern Recognition, GCPR 2018, held in Stuttgart, Germany, in October 2018. The 48

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revised full papers presented were carefully reviewed and selected from 118 submissions. The German Conference on Pattern Recognition is the annual symposium of the German Association for Pattern Recognition (DAGM). It is the

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national venue for recent advances in image processing, pattern recognition, and computer vision and it follows the long tradition of the DAGM conference series, which has been renamed to GCPR in 2013 to reflect its increasing

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internationalization. In 2018 in Stuttgart, the conference series celebrated its 40th anniversary. Monitoring of public and private sites has increasingly become a very sensitive issue resulting in a patchwork of privacy laws varying

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from country to country -though all aimed at protecting the privacy of the citizen. It is important to remember, however, that monitoring and visual surveillance capabilities can also be employed to aid the citizen. The focus of current

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development is primarily aimed at public and corporate safety applications including the monitoring of railway stations, airports, and inaccessible or dangerous environments. Future research effort, however, has already

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targeted citizen-oriented applications such as monitoring assistants for the aged and infirm, route-planning and congestion-avoidance tools, and a range of environmental monitoring applications. The latest generation

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of surveillance systems has eagerly adopted recent technological developments to produce a fully digital pipeline of digital image acquisition, digital data transmission and digital recording. The resultant surveillance products are highly-

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flexible, capable of generating forensic-quality imagery, and able to exploit existing Internet and wide area network services to provide remote monitoring capability.

Semi-supervised learning is a learning paradigm concerned with

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the study of how computers and natural systems such as humans learn in the presence of both labeled and unlabeled data. Traditionally, learning has been studied either in the unsupervised paradigm (e.g., clustering, outlier detection) where

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all the data are unlabeled, or in the supervised paradigm (e.g., classification, regression) where all the data are labeled. The goal of semi-supervised learning is to understand how combining labeled and unlabeled data may change the

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learning behavior, and design algorithms that take advantage of such a combination. Semi-supervised learning is of great interest in machine learning and data mining because it can use readily available unlabeled data to

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improve supervised learning tasks when the labeled data are scarce or expensive. Semi-supervised learning also shows potential as a quantitative tool to understand human category learning, where most of the input is self-evidently unlabeled. In this

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introductory book, we present some popular semi-supervised learning models, including self-training, mixture models, co-training and multiview learning, graph-based methods, and semi-supervised support vector machines. For each

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model, we discuss its basic mathematical formulation. The success of semi-supervised learning depends critically on some underlying assumptions. We emphasize the assumptions made by each model and give

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counterexamples when appropriate to demonstrate the limitations of the different models. In addition, we discuss semi-supervised learning for cognitive psychology. Finally, we give a computational learning theoretic perspective on semi-

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supervised learning, and we
conclude the book with a brief
discussion of open questions in the
field. Table of Contents:

Introduction to Statistical Machine
Learning / Overview of Semi-
Supervised Learning / Mixture

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Models and EM / Co-Training /
Graph-Based Semi-Supervised
Learning / Semi-Supervised
Support Vector Machines / Human
Semi-Supervised Learning / Theory
and Outlook

14th European Conference,

Page 91/216

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Amsterdam, The Netherlands,
October 11-14, 2016, Proceedings,
Part VI

Moving Object Detection and
Segmentation for Remote Aerial
Video Surveillance

Proceedings of 2nd International

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Conference on Computer Vision &
Image Processing

A Companion to Yi jing

Numerology and Cosmology

Pattern Recognition and Computer
Vision

Human Identification Based on Gait

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16th European Conference,
Glasgow, UK, August 23 – 28,
2020, Proceedings, Part VIII

This book constitutes the
proceedings of the 7th
International Conference on
Pattern Recognition and

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Machine Intelligence, PReMI
2017, held in Kolkata, India, in
December 2017. The total of 86
full papers presented in this
volume were carefully reviewed
and selected from 293
submissions. They were

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organized in topical sections
named: pattern recognition and
machine learning; signal and
image processing; computer
vision and video processing; soft
and natural computing; speech
and natural language

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processing; bioinformatics and
computational biology; data
mining and big data analytics;
deep learning; spatial data
science and engineering; and
applications of pattern
recognition and machine

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intelligence.

The world's most powerful newspaper barons – which of them will triumph? At first glance, Richard Armstrong and Keith Townsend seemed to have little in common. One was the son of

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an illiterate peasant, who emerged from the most backward corner of a Europe ravaged by a bitter war. The other was raised in a mansion on the far side of the world while the war was just another piece of

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news. One was a hustler, a thief, ready to change even his identity, if it would gain him a momentary advantage. The other was the scion of a well-known family, groomed for a public role, a rebel who didn't

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care if anyone approved of what he got up to. One craved wealth, recognition, status. The other quickly discovered that real power comes from anonymity. But they did have one thing in common. Both of them were

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gamblers. Both were prepared to risk everything in their battle to control the biggest newspaper empire in the world. From bestselling author Jeffrey Archer, *The Fourth Estate* is a tale of corruption, risk and two men who

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are willing to destroy each other to gain power.

Human Identification Based on Gait is the first book to address gait as a biometric. Biometrics is now in a unique position where it affects most people's lives. This

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is especially true of "gait", which is one of the most recent biometrics. Recognizing people by the way they walk and run implies analyzing movement which, in turn, implies analyzing sequences of images, thus

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requiring memory and
computational performance that
became available only recently.
Human Identification Based on
Gait introduces developments
from distinguished researchers
within this relatively new area of

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biometrics. This book clearly establishes how human gait is biometric. Human Identification Based on Gait is structured to meet the needs of professionals in industry, as well as advanced-level students in computer

Online Library Person Re Identification By Shaogang Gong science.

This book presents a comprehensive treatment of visual analysis of behaviour from computational-modelling and algorithm-design perspectives. Topics: covers learning-group

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activity models, unsupervised
behaviour profiling, hierarchical
behaviour discovery, learning
behavioural context, modelling
rare behaviours, and “man-in-the-
loop” active learning; examines
multi-camera behaviour

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correlation, person re-
identification, and “connecting-
the-dots” for abnormal behaviour
detection; discusses Bayesian
information criterion, Bayesian
networks, “bag-of-words”
representation, canonical

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correlation analysis, dynamic Bayesian networks, Gaussian mixtures, and Gibbs sampling; investigates hidden conditional random fields, hidden Markov models, human silhouette shapes, latent Dirichlet

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allocation, local binary patterns,
locality preserving projection,
and Markov processes; explores
probabilistic graphical models,
probabilistic topic models, space-
time interest points, spectral
clustering, and support vector

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machines.

Video-Based Surveillance
Systems

Computer Vision – ECCV 2016

Principles and Applications

Computer Vision and Distributed
Processing

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15th European Conference,
Munich, Germany, September
8–14, 2018, Proceedings, Part
VII

Robuste Detektion, Verfolgung
und Wiedererkennung von
Personen in Videodaten mit

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niedriger Aufl ö sung

22nd European Conference on
Artificial Intelligence, 29 August -
2 September 2016, The Hague,
The Netherlands - Including
Prestigious Applications of
Artificial Intelligence (PAIS 2016)

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This ambitious work focuses on the world of Chinese thought during the two and a half centuries directly preceding and partly overlapping the time of Confucius. Ideas developed

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*by Chunqiu statesmen and
thinkers formed the
intellectual milieu of
Confucius and his disciples
and contributed directly to
the intellectual flowering of
the Zhanguo (Warring*

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*States) era (453-221 B.C.E.),
the formative period of the
Chinese intellectual
tradition. This study is the
first attempt to
systematically reconstruct
major intellectual trends in*

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pre-Confucian China.

Foundations of Confucian

Thought is based on an

exploration of the Zuo

zhuan, the largest pre-

imperial historical text.

Relying on meticulous

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*textual and linguistic
analysis, Yuri Pines argues
that hundreds of the
speeches of Chunqiu
statesmen recorded in the
Zuo zhuan were not
invented by the compiler of*

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the treatise but reproduced from earlier sources, thus making it an authentic reflection of the Chunqiu intellectual tradition. By tracing changes in ideas and concepts throughout the

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*Chunqiu period, Pines
reconstructs the dynamics of
contemporary political and
ethical discourse, distilling
major intellectual impulses
that Chunqiu thinkers
bequeathed to their*

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Zhanguo descendants.

Person Re-

Identification Springer

Science & Business Media

Translations of the Yi jing

into western languages have

been biased towards the yili

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*('meaning and pattern')
tradition, whereas studies of
the xiangshu ('image and
number') tradition - which
takes as its point of
departure the imagery and
numerology associated with*

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*divination and its
hexagrams, trigrams, lines,
and related charts and
diagrams - has remained
relatively unexplored. This
major new reference work is
organised as a Chinese-*

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*English encyclopedia,
arranged alphabetically
according to the pinyin
romanisation, with Chinese
characters appended. A
character index as well as
an English index is included.*

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The entries are of two kinds: technical terms and various other concepts related to the 'image and number' tradition, and bio-bibliographical information on Chinese Yi jing scholars.

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Each entry in the former category has a brief explanation that includes references to the origins of the term, cross-references, and a reference to an entry giving a more

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*comprehensive treatment of
the subject.*

*Artificial Intelligence
continues to be one of the
most exciting and fast-
developing fields of
computer science. This book*

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*presents the 177 long
papers and 123 short papers
accepted for ECAI 2016, the
latest edition of the biennial
European Conference on
Artificial Intelligence,
Europe's premier venue for*

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*presenting scientific results
in AI. The conference was
held in The Hague, the
Netherlands, from August
29 to September 2, 2016.
ECAI 2016 also incorporated
the conference on*

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*Prestigious Applications of
Intelligent Systems (PAIS)
2016, and the Starting AI
Researcher Symposium
(STAIRS). The papers from
PAIS are included in this
volume; the papers from*

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STAIRS are published in a separate volume in the Frontiers in Artificial Intelligence and Applications (FAIA) series. Organized by the European Association for Artificial

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*Intelligence (EurAI) and the
Benelux Association for
Artificial Intelligence
(BNVKI), the ECAI
conference provides an
opportunity for researchers
to present and hear about*

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the very best research in contemporary AI. This proceedings will be of interest to all those seeking an overview of the very latest innovations and developments in this field.

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*Video Analytics for Business
Intelligence*

*Florence, Italy, October
7-13, 2012, Proceedings,
Part I*

*Deep Biometrics
Looking at People*

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*9th International
Conference, IScIDE 2019,
Nanjing, China, October
17-20, 2019, Proceedings,
Part I*

*Metric Learning
Multimodal Biometric*

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Systems

This is the first book on synthetic data for deep learning, and its breadth of coverage may render this book as the default reference on synthetic data for years to come. The book can also serve as an introduction to several other

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important subfields of machine learning that are seldom touched upon in other books. Machine learning as a discipline would not be possible without the inner workings of optimization at hand. The book includes the necessary sinews of optimization though the

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crux of the discussion centers on the increasingly popular tool for training deep learning models, namely synthetic data. It is expected that the field of synthetic data will undergo exponential growth in the near future. This book serves as a comprehensive survey

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of the field. In the simplest case, synthetic data refers to computer-generated graphics used to train computer vision models. There are many more facets of synthetic data to consider. In the section on basic computer vision, the book discusses fundamental computer

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vision problems, both low-level (e.g., optical flow estimation) and high-level (e.g., object detection and semantic segmentation), synthetic environments and datasets for outdoor and urban scenes (autonomous driving), indoor scenes (indoor navigation),

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aerial navigation, and simulation environments for robotics.

Additionally, it touches upon applications of synthetic data outside computer vision (in neural programming, bioinformatics, NLP, and more). It also surveys the work on improving synthetic data

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development and alternative ways to produce it such as GANs. The book introduces and reviews several different approaches to synthetic data in various domains of machine learning, most notably the following fields: domain adaptation for making synthetic

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data more realistic and/or adapting the models to be trained on synthetic data and differential privacy for generating synthetic data with privacy guarantees. This discussion is accompanied by an introduction into generative adversarial networks (GAN) and an

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introduction to differential privacy. Face recognition is a task that the human vision system seems to perform almost effortlessly, yet the goal of building computer-based systems with comparable capabilities has proven to be difficult. The task implicitly requires

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the ability to locate and track faces through often complex and dynamic scenes. Recognition is difficult because of variations in factors such as lighting conditions, viewpoint, body movement and facial expression. Although evidence from psychophysical and

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**neurobiological experiments
provides intriguing insights into
how we might code and recognise
faces, its bearings on
computational and engineering
solutions are far from clear. The
study of face recognition has had
an almost unique impact on**

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computer vision and machine learning research at large. It raises many challenging issues and provides a good vehicle for examining some difficult problems in vision and learning. Many of the issues raised are relevant to object recognition in general. This book

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describes the latest models and algorithms that are capable of performing face recognition in a dynamic setting. The key question is how to design computer vision and machine learning algorithms that can operate robustly and quickly under poorly controlled and

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changing conditions. Consideration of face recognition as a problem in dynamic vision is perhaps both novel and important. The algorithms described have numerous potential applications in areas such as visual surveillance, verification, access control, video-

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**conferencing, multimedia and
visually mediated interaction. The
book will be of special interest to
researchers and academics
involved in machine vision, visual
recognition and machine learning.
It should also be of interest to
industrial research scientists and**

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managers keen to exploit this emerging technology and develop automated face and human recognition systems. It is also useful to postgraduate students studying computer science, electronic engineering, information or systems engineering, and

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cognitive psychology.

The four-volume set LNCS 8925, 8926, 8927 and 8928 comprises the thoroughly refereed post-workshop proceedings of the Workshops that took place in conjunction with the 13th European Conference on Computer Vision, ECCV 2014, held

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**in Zurich, Switzerland, in
September 2014. The 203 workshop
papers were carefully reviewed and
selected for inclusion in the
proceedings. They were
presented at workshops with the
following themes: where computer
vision meets art; computer vision in**

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**vehicle technology; spontaneous
facial behavior analysis; consumer
depth cameras for computer vision;
"chalearn" looking at people: pose,
recovery, action/interaction,
gesture recognition; video event
categorization, tagging and
retrieval towards big data;**

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**computer vision with local binary
pattern variants; visual object
tracking challenge; computer vision
+ ontology applies cross-
disciplinary technologies; visual
perception of affordance and
functional visual primitives for
scene analysis; graphical models in**

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**computer vision; light fields for
computer vision; computer vision
for road scene understanding and
autonomous driving; soft
biometrics; transferring and
adapting source knowledge in
computer vision; surveillance and
re-identification; color and**

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**photometry in computer vision;
assistive computer vision and
robotics; computer vision problems
in plant phenotyping; and non-rigid
shape analysis and deformable
image alignment. Additionally, a
panel discussion on video
segmentation is included.**

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Many governments around the world are calling for the use of biometric systems to provide crucial societal functions, consequently making it an urgent area for action. The current performance of some biometric systems in terms of their error

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rates, robustness, and system security may prove to be inadequate for large-scale applications to process millions of users at a high rate of throughput. This book focuses on fusion in biometric systems. It discusses the present level, the limitations, and

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proposed methods to improve performance. It describes the fundamental concepts, current research, and security-related issues. The book will present a computational perspective, identify challenges, and cover new problem-solving strategies, offering solved

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problems and case studies to help with reader comprehension and deep understanding. This book is written for researchers, practitioners, both undergraduate and post-graduate students, and those working in various engineering fields such as Systems

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**Engineering, Computer Science,
Information Technology,
Electronics, and Communications.
Advanced Image and Video
Processing Using MATLAB**

**Multi-Camera Networks
19th International Conference,**

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**MMM 2013, Huangshan, China,
January 7-9, 2013, Proceedings,
Part I**

**Group and Crowd Behavior for
Computer Vision**

**Dynamic Vision: From Images To
Face Recognition**

Computer Vision - ECCV 2014

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Workshops

The 30-volume set, comprising the LNCS books 12346 until 12375, constitutes the refereed proceedings of the 16th European Conference on Computer Vision, ECCV 2020, which was planned to be held in Glasgow,

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UK, during August 23-28, 2020. The conference was held virtually due to the COVID-19 pandemic. The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions. The papers deal with

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topics such as computer vision;
machine learning; deep neural
networks; reinforcement learning;
object recognition; image
classification; image processing; object
detection; semantic segmentation;
human pose estimation; 3d

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reconstruction; stereo vision;
computational photography; neural
networks; image coding; image
reconstruction; object recognition;
motion estimation.

The first book, by the leading experts,
on this rapidly developing field with

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applications to security, smart homes,
multimedia, and environmental
monitoring Comprehensive coverage of
fundamentals, algorithms, design
methodologies, system implementation
issues, architectures, and applications
Presents in detail the latest

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developments in multi-camera calibration, active and heterogeneous camera networks, multi-camera object and event detection, tracking, coding, smart camera architecture and middleware This book is the definitive reference in multi-camera networks. It

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gives clear guidance on the conceptual and implementation issues involved in the design and operation of multi-camera networks, as well as presenting the state-of-the-art in hardware, algorithms and system development. The book is broad in scope, covering

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smart camera architectures, embedded processing, sensor fusion and middleware, calibration and topology, network-based detection and tracking, and applications in distributed and collaborative methods in camera networks. This book will be an ideal

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reference for university researchers, R&D engineers, computer engineers, and graduate students working in signal and video processing, computer vision, and sensor networks. Hamid Aghajan is a Professor of Electrical Engineering (consulting) at Stanford University. His

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research is on multi-camera networks for smart environments with application to smart homes, assisted living and well being, meeting rooms, and avatar-based communication and social interactions. He is Editor-in-Chief of Journal of Ambient

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Intelligence and Smart Environments,
and was general chair of ACM/IEEE
ICDSC 2008. Andrea Cavallaro is
Reader (Associate Professor) at Queen
Mary, University of London (QMUL).
His research is on target tracking and
audiovisual content analysis for

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advanced surveillance and multi-sensor systems. He serves as Associate Editor of the IEEE Signal Processing Magazine and the IEEE Trans. on Multimedia, and has been general chair of IEEE AVSS 2007, ACM/IEEE ICDDSC 2009 and BMVC 2009. The

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first book, by the leading experts, on this rapidly developing field with applications to security, smart homes, multimedia, and environmental monitoring Comprehensive coverage of fundamentals, algorithms, design methodologies, system implementation

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issues, architectures, and applications
Presents in detail the latest
developments in multi-camera
calibration, active and heterogeneous
camera networks, multi-camera object
and event detection, tracking, coding,
smart camera architecture and

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middleware

Closed Circuit TeleVision (CCTV) cameras have been increasingly deployed pervasively in public spaces including retail centres and shopping malls. Intelligent video analytics aims to automatically analyze content of

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massive amount of public space video data and has been one of the most active areas of computer vision research in the last two decades. Current focus of video analytics research has been largely on detecting alarm events and abnormal behaviours

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for public safety and security applications. However, increasingly CCTV installations have also been exploited for gathering and analyzing business intelligence information, in order to enhance marketing and operational efficiency. For example, in

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retail environments, surveillance cameras can be utilised to collect statistical information about shopping behaviour and preference for marketing (e.g., how many people entered a shop; how many females/males or which age groups of people showed interests to a

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particular product; how long did they stay in the shop; and what are the frequent paths), and to measure operational efficiency for improving customer experience. Video analytics has the enormous potential for non-security oriented commercial

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applications. This book presents the latest developments on video analytics for business intelligence applications. It provides both academic and commercial practitioners an understanding of the state-of-the-art and a resource for potential

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applications and successful practice.

The seven-volume set comprising LNCS volumes 8689-8695 constitutes the refereed proceedings of the 13th European Conference on Computer Vision, ECCV 2014, held in Zurich, Switzerland, in September 2014. The

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363 revised papers presented were carefully reviewed and selected from 1444 submissions. The papers are organized in topical sections on tracking and activity recognition; recognition; learning and inference; structure from motion and feature

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matching; computational photography
and low-level vision; vision;
segmentation and saliency; context and
3D scenes; motion and 3D scene
analysis; and poster sessions.

13th European Conference, Zurich,
Switzerland, September 6-12, 2014,

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Proceedings, Part IV

40th German Conference, GCPR 2018,

Stuttgart, Germany, October 9-12,

2018, Proceedings

Visual Analysis of Behaviour

Pattern Recognition

Security and Applications

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CVIP 2017, Volume 1

Intelligence Science and Big Data
Engineering. Visual Data Engineering
The eight-volume set
comprising LNCS volumes
9905-9912 constitutes
the refereed proceedings

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of the 14th European
Conference on Computer
Vision, ECCV 2016, held
in Amsterdam, The
Netherlands, in October
2016. The 415 revised
papers presented were

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carefully reviewed and selected from 1480 submissions. The papers cover all aspects of computer vision and pattern recognition such as 3D computer vision;

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computational
photography, sensing and
display; face and
gesture; low-level
vision and image
processing; motion and
tracking; optimization

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methods; physicsbased
vision, photometry and
shape-from-X;
recognition: detection,
categorization,
indexing, matching;
segmentation, grouping

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and shape
representation;
statistical methods and
learning; video: events,
activities and
surveillance;
applications. They are

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organized in topical
sections on detection,
recognition and
retrieval; scene
understanding;
optimization; image and
video processing;

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learning; action
activity and tracking;
3D; and 9 poster
sessions.

This volume gathers
selected, peer-reviewed
original contributions

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presented at the
International Conference
on Computational Vision
and Bio-inspired
Computing (ICCVBIC)
conference which was
held in Coimbatore,

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India, on November
29-30, 2018. The works
included here offer a
rich and diverse
sampling of recent
developments in the
fields of Computational

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Vision, Fuzzy, Image
Processing and Bio-
inspired Computing. The
topics covered include
computer vision;
cryptography and digital
privacy; machine

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learning and artificial
neural networks; genetic
algorithms and
computational
intelligence; the
Internet of Things; and
biometric systems, to

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name but a few. The applications discussed range from security, healthcare and epidemic control to urban computing, agriculture and robotics. In this

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book, researchers,
graduate students and
professionals will find
innovative solutions to
real-world problems in
industry and society as
a whole, together with

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inspirations for further
research.

The sixteen-volume set
comprising the LNCS
volumes 11205-11220
constitutes the refereed
proceedings of the 15th

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European Conference on
Computer Vision, ECCV
2018, held in Munich,
Germany, in September
2018. The 776 revised
papers presented were
carefully reviewed and

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selected from 2439
submissions. The papers
are organized in topical
sections on learning for
vision; computational
photography; human
analysis; human sensing;

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stereo and
reconstruction;
optimization; matching
and recognition; video
attention; and poster
sessions.

This book highlights new

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advances in biometrics
using deep learning
toward deeper and wider
background, deeming it
"Deep Biometrics". The
book aims to highlight
recent developments in

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biometrics using semi-supervised and unsupervised methods such as Deep Neural Networks, Deep Stacked Autoencoder, Convolutional Neural

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Networks, Generative
Adversary Networks, and
so on. The contributors
demonstrate the power of
deep learning techniques
in the emerging new
areas such as privacy

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and security issues,
cancellable biometrics,
soft biometrics, smart
cities, big biometric
data, biometric banking,
medical biometrics,
healthcare biometrics,

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and biometric genetics,
etc. The goal of this
volume is to summarize
the recent advances in
using Deep Learning in
the area of biometric
security and privacy

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toward deeper and wider applications. Highlights the impact of deep learning over the field of biometrics in a wide area; Exploits the deeper and wider

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background of
biometrics, such as
privacy versus security,
biometric big data,
biometric genetics, and
biometric diagnosis,
etc.; Introduces new

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biometric applications
such as biometric
banking, internet of
things, cloud computing,
and medical biometrics.

Human Re-Identification
Computer Vision -- ECCV

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2012. Workshops and

Demonstrations

Visual Analysis of

Humans

The Fourth Estate

New Trends in

Computational Vision and

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Bio-inspired Computing