

Read Online Openpose Real  
Time Multi Person Keypoint  
Detection

**Openpose Real  
Time Multi Person  
Keypoint  
Detection**

# Read Online Openpose Real Time Multi Person Keypoint Detection

This proceedings book presents state-of-the-art research innovations in computational vision and bio-inspired techniques. Due to the rapid advances in the emerging information, communication and computing technologies, the Internet

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of Things, cloud and edge computing, and artificial intelligence play a significant role in the computational vision context. In recent years, computational vision has contributed to enhancing the methods of controlling the operations in

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biological systems, like ant colony optimization, neural networks, and immune systems. Moreover, the ability of computational vision to process a large number of data streams by implementing new computing paradigms has been

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demonstrated in numerous studies incorporating computational techniques in the emerging bio-inspired models. The book reveals the theoretical and practical aspects of bio-inspired computing techniques, like machine learning, sensor-based

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models, evolutionary optimization, and big data modeling and management, that make use of effectual computing processes in the bio-inspired systems. As such it contributes to the novel research that focuses on developing bio-inspired

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computing solutions for various domains, such as human – computer interaction, image processing, sensor-based single processing, recommender systems, and facial recognition, which play an indispensable part in smart

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agriculture, smart city, biomedical and business intelligence applications. This volume constitutes the refereed proceedings of the 21st Scandinavian Conference on Image Analysis, SCIA 2019, held in Norrköping, Sweden, in June 2019. The 40 revised papers



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presented were carefully reviewed and selected from 63 submissions. The contributions are structured in topical sections on Deep convolutional neural networks; Feature extraction and image analysis; Matching, tracking and geometry; and Medical

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and biomedical image analysis.

This book is a truly comprehensive, timely, and very much needed treatise on the conceptualization of analysis, and design of contactless & multimodal sensor-based human activities, behavior understanding &

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intervention. From an interaction design perspective, the book provides views and methods that allow for more safe, trustworthy, efficient, and more natural interaction with technology that will be embedded in our daily living environments. The

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chapters in this book cover sufficient grounds and depth in related challenges and advances in sensing, signal processing, computer vision, and mathematical modeling. It covers multi-domain applications, including surveillance and elderly care that will

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be an asset to entry-level and practicing engineers and scientists. (See inside for the reviews from top experts)

This book gathers the proceedings of the International Conference on Advanced Technologies for

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Humanity (ICATH ' 2021), held on November 26-27, 2021, in INSEA, Rabat, Morocco. ICATH ' 2021 was jointly co-organized by the National Institute of Statistics and Applied Economics (INSEA) in collaboration with the Moroccan School of

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Engineering Sciences (EMSI), the Hassan II Institute of Agronomy and Veterinary Medicine (IAV-Hassan II), the National Institute of Posts and Telecommunications (INPT), the National School of Mineral Industry (ENSMR), the Faculty of Sciences of

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Rabat (UM5-FSR), the National School of Applied Sciences of Kenitra (ENSAK) and the Future University in Egypt (FUE). ICATH ' 2021 was devoted to practical models and industrial applications related to advanced technologies for Humanity.



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It was considered as a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries. This book is helpful for PhD students as well as researchers. The 48 full papers were

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carefully reviewed and selected from 105 submissions. The papers presented in the volume are organized in topical sections on synergies between (i) smart and sustainable cities, (ii) communication systems, signal and image processing for

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humanity, (iii) cybersecurity, database and language processing for human applications, (iv) renewable and sustainable energies, (v) civil engineering and structures for sustainable constructions, (vi) materials and smart buildings and

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(Vii) Industry 4.0 for smart factories. All contributions were subject to a double-blind review. The review process was highly competitive. We had to review 105 submissions from 12 countries. A team of over 100 program committee members and

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reviewers did this terrific job. Our special thanks go to all of them.

Build advanced computer vision applications using machine learning and deep learning techniques

Proceedings of International Conference on Advanced

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Technologies for Humanity  
(ICATH'2021)

11th International Conference, DHM  
2020, Held as Part of the 22nd HCI  
International Conference, HCII 2020,  
Copenhagen, Denmark, July 19 – 24,  
2020, Proceedings, Part I

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Cognitive Computing – ICCO 2021  
Highlights of Practical Applications of  
Agents, Multi-Agent Systems, and  
Complexity: The PAAMS Collection  
Intelligent Systems and Applications  
Machine Learning and Knowledge  
Extraction

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20th International Conference,  
Trento, Italy, September 9 – 13, 2019,  
Proceedings, Part I

This book presents the proceedings of the 21st Congress of the International Ergonomics Association (IEA 2021), held online



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on June 13-18, 2021. By highlighting the latest theories and models, as well as cutting-edge technologies and applications, and by combining findings from a range of disciplines including engineering, design, robotics, healthcare,

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management, computer science, human biology and behavioral science, it provides researchers and practitioners alike with a comprehensive, timely guide on human factors and ergonomics. It also offers an excellent source of

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innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance, while at the same time promoting the health, safety and wellbeing of individuals. The

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proceedings include papers from researchers and practitioners, scientists and physicians, institutional leaders, managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a

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variety of methodologies, domains and productive sectors. This volume includes papers addressing the following topics: Ergonomics in Design for All, Human Factors and Sustainable Development, Gender and Work, Slips Trips and Falls,

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Visual Ergonomics, Ergonomics for children and Educational Environments, Ageing and Work. This book is a collection of peer-reviewed best selected research papers presented at 3rd International Conference on

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Computer Networks and Inventive Communication Technologies (ICCNCT 2020). The book covers new results in theory, methodology, and applications of computer networks and data communications. It includes original

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papers on computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings of this conference is a valuable resource, dealing with both the important core and the



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specialized issues in the areas of next generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practice. It is a reference for researchers,

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instructors, students, scientists, engineers, managers, and industry practitioners for advance work in the area.

The two-volume set LNCS 11751 and 11752 constitutes the refereed proceedings of the 20th

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International Conference on Image Analysis and Processing, ICIAP 2019, held in Trento, Italy, in September 2019. The 117 papers presented were carefully reviewed and selected from 207 submissions. The papers cover

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both classic and the most recent trends in image processing, computer vision, and pattern recognition, addressing both theoretical and applicative aspects. They are organized in the following topical sections: Video Analysis and

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Understanding; Pattern Recognition and Machine Learning; Deep Learning; Multiview Geometry and 3D Computer Vision; Image Analysis, Detection and Recognition; Multimedia; Biomedical and Assistive

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Technology; Digital Forensics; Image processing for Cultural Heritage.

The book Intelligent Systems and Applications - Proceedings of the 2020 Intelligent Systems Conference is a remarkable

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collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world. The Conference attracted a total of 545 submissions from many academic pioneering

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researchers, scientists, industrial engineers, students from all around the world. These submissions underwent a double-blind peer review process. Of those 545 submissions, 177 submissions have been selected to be included



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in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have enabled a larger number of problems to be tackled more effectively. This

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branching out of computational intelligence in several directions and use of intelligent systems in everyday applications have created the need for such an international conference which serves as a venue to report on up-to-the-minute

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innovations and developments. This book collects both theory and application based chapters on all aspects of artificial intelligence, from classical to intelligent scope. We hope that readers find the volume interesting and valuable; it

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

Computer Vision

Frontiers of Computer Vision

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IC4S 2020

ICDSMLA 2019

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

Anticipatory Systems: Humans  
Meet Artificial Intelligence

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Handbook of Intelligent Computing  
and Optimization for Sustainable  
Development  
Performing Arts and Digital  
Humanities

This book constitutes the  
refereed proceedings of the 12th

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International Conference on Computer Vision Systems, ICVS 2019, held in Thessaloniki, Greece, in September 2019. The 72 papers presented were carefully reviewed and selected from 114 submissions. The

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papers are organized in the following topical sections; hardware accelerated and real time vision systems; robotic vision; vision systems applications; high-level and learning vision systems;



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cognitive vision systems;  
movement analytics and gesture  
recognition for human-machine  
collaboration in industry;  
cognitive and computer vision  
assisted systems for energy  
awareness and behavior

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analysis; and vision-enabled UAV and counter UAV technologies for surveillance and security of critical infrastructures. Computer Vision: Algorithms and Applications explores the variety of techniques used to analyze

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and interpret images. It also describes challenging real-world applications where vision is being successfully used, both in specialized applications such as image search and autonomous navigation, as well as for fun,

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consumer-level tasks that students can apply to their own personal photos and videos. More than just a source of “ recipes, ” this exceptionally authoritative and comprehensive textbook/reference takes a

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scientific approach to the formulation of computer vision problems. These problems are then analyzed using the latest classical and deep learning models and solved using rigorous engineering principles.

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Topics and features: Structured to support active curricula and project-oriented courses, with tips in the Introduction for using the book in a variety of customized courses Incorporates totally new material on deep

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learning and applications such as mobile computational photography, autonomous navigation, and augmented reality Presents exercises at the end of each chapter with a heavy emphasis on testing algorithms

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and containing numerous suggestions for small mid-term projects Includes 1,500 new citations and 200 new figures that cover the tremendous developments from the last decade Provides additional



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material and more detailed mathematical topics in the Appendices, which cover linear algebra, numerical techniques, estimation theory, datasets, and software Suitable for an upper-level undergraduate or graduate-

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level course in computer science or engineering, this textbook focuses on basic techniques that work under real-world conditions and encourages students to push their creative boundaries. Its design and exposition also

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make it eminently suitable as a unique reference to the fundamental techniques and current research literature in computer vision.

This book constitutes the refereed proceedings of the IFIP

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TC 5, TC 12, WG 8.4, 8.9, 12.9  
International Cross-Domain  
Conference for Machine  
Learning and Knowledge  
Extraction, CD-MAKE 2019, held  
in Canterbury, UK, in August  
2019. The 25 revised full papers

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presented were carefully reviewed and selected from 45 submissions. The cross-domain integration and appraisal of different fields provides an atmosphere to foster different perspectives and opinions; it will

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offer a platform for novel ideas and a fresh look on the methodologies to put these ideas into business for the benefit of humanity.

The 4-volume set LNAI 13013 – 13016 constitutes the

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proceedings of the 14th International Conference on Intelligent Robotics and Applications, ICIRA 2021, which took place in Yantai, China, during October 22-25, 2021. The 299 papers included in these

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proceedings were carefully reviewed and selected from 386 submissions. They were organized in topical sections as follows: Robotics dexterous manipulation; sensors, actuators, and controllers for soft and



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hybrid robots; cable-driven parallel robot; human-centered wearable robotics; hybrid system modeling and human-machine interface; robot manipulation skills learning; micronano materials, devices, and systems

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for biomedical applications; actuating, sensing, control, and instrumentation for ultra-precision engineering; human-robot collaboration; robotic machining; medical robot; machine intelligence for human

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motion analytics; human-robot interaction for service robots; novel mechanisms, robots and applications; space robot and on-orbit service; neural learning enhanced motion planning and control for human robot

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interaction; medical engineering.

5th International Conference,

Held as Part of the Services

Conference Federation, SCF

2021, Virtual Event, December

10–14, 2021, Proceedings

14th International Conference,

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ICIRA 2021, Yantai, China,  
October 22–25, 2021,  
Proceedings, Part III  
Proceedings of International  
Workshop, NAMSP 2020  
Computer Analysis of Images  
and Patterns

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The Routledge Companion to Interdisciplinary Studies in Singing, Volume I: Development Intelligent Electronic Devices 20th International Conference, HIMI 2018, Held as Part of HCI International 2018, Las Vegas,

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NV, USA, July 15-20, 2018,  
Proceedings, Part I

VIII Latin American Conference  
on Biomedical Engineering and  
XLII National Conference on  
Biomedical Engineering

**In a modern technological society,**

*Page 71/198*

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**electronic engineering and design innovations are both academic and practical engineering fields that involve systematic technological materialization through scientific principles and engineering designs. Engineers**



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**and designers must work together with a variety of other professionals in their quest to find systems solutions to complex problems. Rapid advances in science and technology have broadened the horizons of**

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**engineering while simultaneously creating a multitude of challenging problems in every aspect of modern life. Current research is interdisciplinary in nature, reflecting a combination of concepts and methods that**

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**often span several areas of  
mechanics, mathematics,  
electrical engineering, control  
engineering, and other scientific  
disciplines. In addition, the 2nd  
IEEE International Conference  
on Knowledge Innovation and**

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**Invention 2019 (IEEE ICKII  
2019) was held in Seoul, South  
Korea, on 12–15 July, 2019. This  
book, “Intelligent Electronic  
Devices”, includes 13 excellent  
papers form 260 papers presented  
in this conference about**

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**intelligent electronic devices. The main goals of this book were to encourage scientists to publish their experimental and theoretical results in as much detail as possible and to provide new scientific knowledge relevant to**

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**the topics of electronics.**

**This two-volume set of LNCS  
12836 and LNCS 12837**

**constitutes - in conjunction with  
the volume LNAI 12838 - the  
refereed proceedings of the 17th  
International Conference on**

*Page 78/198*

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**Intelligent Computing, ICIC 2021, held in Shenzhen, China in August 2021. The 192 full papers of the three proceedings volumes were carefully reviewed and selected from 458 submissions. The ICIC theme unifies the**

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**picture of contemporary  
intelligent computing techniques  
as an integral concept that  
highlights the trends in advanced  
computational intelligence and  
bridges theoretical research with  
applications. The theme for this**



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**conference is “Advanced  
Intelligent Computing  
Methodologies and Applications.”  
The papers are organized in the  
following subsections:  
Evolutionary Computation and  
Learning, Image and signal**

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**Processing, Information Security,  
Neural Networks, Pattern  
Recognition Swarm Intelligence  
and Optimization, and Virtual  
Reality and Human-Computer  
Interaction.**

**This two-volume set LNCS 12198**

*Page 82/198*

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**and 12199 constitutes the  
thoroughly refereed proceedings  
of the 11th International  
Conference on Digital Human  
Modeling and Applications in  
Health, Safety, Ergonomics and  
Risk Management, DHM 2020,**

*Page 83/198*

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**which was supposed to be held as part of the 22st HCI International Conference, HCII 2020, in Copenhagen, Denmark, in July 2020. The conference was held virtually due to the COVID-19 pandemic. A total of 1439 papers**

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**and 238 posters have been  
carefully reviewed and accepted  
for publication in HCII 2020.  
DHM 2020 includes a total of 77  
papers; they were organized in  
topical sections named: Part I,  
Posture, Motion and Health:**

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**Posture and motion modelling in  
design; ergonomics and  
occupational health; applications  
for exercising, physical therapy  
and rehabilitation; health  
services; DHM for aging support.  
Part II, Human Communication,**

*Page 86/198*

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## **Organization and Work:**

**Modelling human  
communication; modelling work,  
collaboration and the human  
environment; addressing ethical  
and societal challenges; new  
research issues and approaches in**

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**digital human modelling.**

**This two-volume set LNCS 10904  
and 10905 constitutes the refereed  
proceedings of the 20th  
International Conference on  
Human Interface and the  
Management of Information,**

*Page 88/198*



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**HIMI 2018, held as part of HCI International 2018 in Las Vegas, NV, USA, in July 2018. The total of 1170 papers and 195 posters included in the 30 HCII 2018 proceedings volumes was carefully reviewed and selected from 4373**

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**submissions. The 56 papers presented in this volume were organized in topical sections named: information visualization; multimodal interaction; information in virtual and augmented reality; information**

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**and vision; and text and data  
mining and analytics.**

**Volume II: Inclusive Design  
Thematic Area, HCI 2022, Held as  
Part of the 24th HCI  
International Conference, HCII  
2022, Virtual Event, June 26–July**

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**1, 2022, Proceedings, Part I  
Advances in Guidance, Navigation  
and Control  
ICITS 2021, Volume 1  
Proceedings of FC 2020  
Intelligent Robotics and  
Applications**

*Page 92/198*

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**Image Analysis and Processing –  
ICIAP 2019**

**Computational Vision and Bio-  
Inspired Computing**

*This book constitutes the  
refereed proceedings of the  
6th International Symposium*

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*on Cyber Security  
Cryptography and Machine  
Learning, CSCML 2022, held  
in Be'er Sheva, Israel, in June -  
July 2022. The 24 full and 11  
short papers presented  
together with a keynote paper*

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*in this volume were carefully reviewed and selected from 53 submissions. They deal with the theory, design, analysis, implementation, or application of cyber security, cryptography and machine*

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*learning systems and networks, and conceptually innovative topics in these research areas.*

*This book is composed by the papers written in English and accepted for presentation and*



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*discussion at The 2021 International Conference on Information Technology & Systems (ICITS 21), held at the Universidad Estatal Península de Santa Elena, in Libertad, Ecuador, between the 10th*

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*and the 12th of February 2021. ICITS is a global forum for researchers and practitioners to present and discuss recent findings and innovations, current trends, professional experiences and*

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*challenges of modern information technology and systems research, together with their technological development and applications. The main topics covered are information and knowledge*

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*management; organizational models and information systems; software and systems modelling; software systems, architectures, applications and tools; multimedia systems and applications; computer*

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*networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human-computer interaction; ethics, computers & security; health informatics;*

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*and information technologies in education.*

*This book features selected research papers presented at the Second International Conference on Computing, Communications, and Cyber-*

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*Security (IC4S 2020),  
organized in Krishna  
Engineering College (KEC),  
Ghaziabad, India, along with  
Academic Associates;  
Southern Federal University,  
Russia; IAC Educational, India;*

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*and ITS Mohan Nagar,  
Ghaziabad, India during 3-4  
October 2020. It includes  
innovative work from  
researchers, leading  
innovators, and professionals  
in the area of communication*



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*and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.*

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*Digital traces, whether digitized (programs, notebooks, drawings, etc.) or born digital (emails, websites, video recordings, etc.), constitute a major challenge for the memory of the*

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*ephemeral performing arts. Digital technology transforms traces into data and, in doing so, opens them up to manipulation. This paradigm shift calls for a renewal of methodologies for writing the*

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*history of theater today, analyzing works and their creative process, and preserving performances. At the crossroads of performing arts studies, the history, digital humanities,*

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*conservation and archiving, these methodologies allow us to take into account what is generally dismissed, namely, digital traces that are considered too complex, too numerous, too fragile, of*

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*dubious authenticity, etc. With the analysis of Merce Cunningham's digital traces as a guideline, and through many other examples, this book is intended for researchers and archivists, as well as artists*

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*and cultural institutions.  
Proceedings of Second  
International Conference on  
Computing, Communications,  
and Cyber-Security  
Digital Human Modeling and  
Applications in Health, Safety,*

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*Ergonomics and Risk  
Management. Posture, Motion  
and Health  
Intelligent Computing  
Theories and Application  
Third IFIP TC 5, TC 12, WG  
8.4, WG 8.9, WG 12.9*



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*International Cross-Domain  
Conference, CD-MAKE 2019,  
Canterbury, UK, August 26-29,  
2019, Proceedings  
Proceedings of the 2020  
Intelligent Systems  
Conference (IntelliSys) Volume*

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2

*Computer Vision Systems  
Proceedings of CLAIB-CNIB  
2019, October 2-5, 2019,  
Cancún, México*

*Computer Vision - ECCV 2020  
This book gathers selected high-*

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*impact articles from the 1st  
International Conference on Data  
Science, Machine Learning &  
Applications 2019. It highlights the  
latest developments in the areas of  
Artificial Intelligence, Machine  
Learning, Soft Computing,*

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*Human-Computer Interaction and various data science & machine learning applications. It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of*

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*perspectives, practices and technical expertise.*

*The Routledge Companion to Interdisciplinary Studies in Singing, Volume I: Development introduces the many voices necessary to better understand the act of singing—a*

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*complex human behaviour that emerges without deliberate training. Presenting research from the social sciences and humanities alongside that of the natural sciences and medicine alike, this companion explores the relationship between*

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*hearing sensitivity and vocal production, in turn identifying how singing is integrated with sensory and cognitive systems while investigating the ways we test and measure singing ability and development. Contributors consider*

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*the development of singing within  
the context of the entire lifespan,  
focusing on its cognitive, social,  
and emotional significance in four  
parts: Musical, historical and  
scientific foundations Perception  
and production Multimodality*



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*Assessment In 2009, the Social  
Sciences and Humanities Research  
Council of Canada funded a seven-  
year major collaborative research  
initiative known as Advancing  
Interdisciplinary Research in  
Singing (AIRS). Together, global*

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*researchers from a broad range of disciplines addressed three challenging questions: How does singing develop in every human being? How should singing be taught and used to teach? How does singing impact wellbeing? Across*

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*three volumes, The Routledge  
Companion to Interdisciplinary  
Studies in Singing consolidates the  
findings of each of these three  
questions, defining the current state  
of theory and research in the field.  
Volume I: Development tackles the*

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*first of these three questions,  
tracking development from infancy  
through childhood to adult years.*

**HANDBOOK OF INTELLIGENT  
COMPUTING AND  
OPTIMIZATION FOR  
SUSTAINABLE DEVELOPMENT**

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*This book provides a comprehensive overview of the latest breakthroughs and recent progress in sustainable intelligent computing technologies, applications, and optimization techniques across various industries. Optimization has*

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*received enormous attention along with the rapidly increasing use of communication technology and the development of user-friendly software and artificial intelligence. In almost all human activities, there is a desire to deliver the highest*

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*possible results with the least amount of effort. Moreover, optimization is a very well-known area with a vast number of applications, from route finding problems to medical treatment, construction, finance, accounting,*

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*engineering, and maintenance schedules in plants. As far as optimization of real-world problems is concerned, understanding the nature of the problem and grouping it in a proper class may help the designer employ proper techniques*



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*which can solve the problem efficiently. Many intelligent optimization techniques can find optimal solutions without the use of objective function and are less prone to local conditions. The 41 chapters comprising the Handbook*

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*of Intelligent Computing and  
Optimization for Sustainable  
Development by subject specialists,  
represent diverse disciplines such as  
mathematics and computer science,  
electrical and electronics  
engineering, neuroscience and*

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*cognitive sciences, medicine, and social sciences, and provide the reader with an integrated understanding of the importance that intelligent computing has in the sustainable development of current societies. It discusses the emerging*

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*research exploring the theoretical and practical aspects of successfully implementing new and innovative intelligent techniques in a variety of sectors, including IoT, manufacturing, optimization, and healthcare. Audience It is a pivotal*

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*reference source for IT specialists,  
industry professionals, managers,  
executives, researchers, scientists,  
and engineers seeking current  
research in emerging perspectives in  
the field of artificial intelligence in  
the areas of Internet of Things,*

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*renewable energy, optimization, and smart cities.*

*Apply neural network architectures to build state-of-the-art computer vision applications using the Python programming language Key FeaturesGain a fundamental*

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*understanding of advanced computer vision and neural network models in use today* Cover tasks such as low-level vision, image classification, and object detection

*Develop deep learning models on cloud platforms and*

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*optimize them using TensorFlow Lite and the OpenVINO toolkit*  
**Book Description** Computer vision allows machines to gain human-level understanding to visualize, process, and analyze images and videos. This book focuses on using



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*TensorFlow to help you learn advanced computer vision tasks such as image acquisition, processing, and analysis. You'll start with the key principles of computer vision and deep learning to build a solid foundation, before*

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*covering neural network*

*architectures and understanding how they work rather than using them as a black box. Next, you'll explore architectures such as VGG, ResNet, Inception, R-CNN, SSD, YOLO, and MobileNet. As you*

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*advance, you'll learn to use visual search methods using transfer learning. You'll also cover advanced computer vision concepts such as semantic segmentation, image inpainting with GAN's, object tracking, video segmentation,*

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*and action recognition. Later, the book focuses on how machine learning and deep learning concepts can be used to perform tasks such as edge detection and face recognition. You'll then discover how to develop powerful neural*

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*network models on your PC and on various cloud platforms. Finally, you'll learn to perform model optimization methods to deploy models on edge devices for real-time inference. By the end of this book, you'll have a solid*

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*understanding of computer vision and be able to confidently develop models to automate tasks. What you will learn* Explore methods of feature extraction and image retrieval and visualize different layers of the neural network

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*model Use TensorFlow for various visual search methods for real-world scenarios Build neural networks or adjust parameters to optimize the performance of models Understand TensorFlow DeepLab to perform semantic*

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*segmentation on images and  
DCGAN for image  
inpainting* Evaluate your model and  
optimize and integrate it into your  
application to operate at scale Get  
up to speed with techniques for  
performing manual and automated



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*image annotation Who this book is for This book is for computer vision professionals, image processing professionals, machine learning engineers and AI developers who have some knowledge of machine learning and deep learning and*

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*want to build expert-level computer vision applications. In addition to familiarity with TensorFlow, Python knowledge will be required to get started with this book.*

*Human-Computer Interaction.*

*Theoretical Approaches and Design*

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*Methods*

*17th International Conference,  
ICIC 2021, Shenzhen, China,  
August 12–15, 2021, Proceedings,  
Part I*

*6th International Symposium,  
CSCML 2022, Be'er Sheva, Israel,*

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*June 30 – July 1, 2022, Proceedings  
CAIP 2019 International  
Workshops, ViMaBi and DL-UAV,  
Salerno, Italy, September 6, 2019,  
Proceedings  
Intelligent Technologies and  
Applications*

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*Image Analysis*

*26th International Workshop, IW-  
FCV 2020, Ibusuki, Kagoshima,  
Japan, February 20–22, 2020,  
Revised Selected Papers*

*Proceedings of the 21st Congress of  
the International Ergonomics*

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## ***Association (IEA 2021)***

*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, UK, during August 23-28, 2020. The conference was held virtually due to the*

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*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 topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing;*

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*object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.*

*The three-volume set LNCS 13302, 13303 and 13304 constitutes the refereed*



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*proceedings of the Human Computer Interaction thematic area of the 24th International Conference on Human-Computer Interaction, HCII 2022, which took place virtually in June-July 2022. The 132 papers included in this HCI 2022 proceedings were organized in topical sections as follows: Part I: Theoretical and*

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*Multidisciplinary Approaches in HCI; Design and Evaluation Methods, Techniques and Tools; Emotions and Design; and Children-Computer Interaction, Part II: Novel Interaction Devices, Methods and Techniques; Text, Speech and Image Processing in HCI; Emotion and Physiological Reactions Recognition; and*

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*Human-Robot Interaction, Part III: Design and User Experience Case Studies, Persuasive Design and Behavioral Change; and Interacting with Chatbots and Virtual Agents.*

*This book is a collection of papers presented at the International Workshop on New Approaches for Multidimensional Signal*

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*Processing (NAMSP 2020), held at Technical University of Sofia, Sofia, Bulgaria, during 09–11 July 2020. The book covers research papers in the field of N-dimensional multicomponent image processing, multidimensional image representation and super-resolution, 3D image processing and reconstruction, MD*

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*computer vision systems, multidimensional multimedia systems, neural networks for MD image processing, data-based MD image retrieval and knowledge data mining, watermarking, hiding and encryption of MD images, MD image processing in robot systems, tensor-based data processing, 3D and multi-view visualization, forensic*

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*analysis systems for MD images and many more.*

*This book constitutes the refereed post-conference proceedings of the Third International Conference on Intelligent Technologies and Applications, INTAP 2020, held in Grimstad, Norway, in September 2020. The 30 revised full papers*

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*and 4 revised short papers presented were carefully reviewed and selected from 117 submissions. The papers of this volume are organized in topical sections on image, video processing and analysis; security and IoT; health and AI; deep learning; biometrics; intelligent environments; intrusion and malware detection; and AIRLEAs.*

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*Select Proceedings of CISCON 2020*

*Human Interface and the Management of  
Information. Interaction, Visualization, and  
Analytics*

*Advanced Technologies for Humanity*

*Bioinformatics and Biomedical Engineering*

*12th International Conference, ICVS 2019,*

*Thessaloniki, Greece, September 23–25,*



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*2019, Proceedings*

*Proceedings of Third ICCNCT 2020*

*Contactless Human Activity Analysis*

*International Workshops of PAAMS 2018,*

*Toledo, Spain, June 20–22, 2018,*

*Proceedings*

This book constitutes refereed proceedings  
of the 26th International Workshop

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Frontiers of Computer Vision, IW-FCV 2020, held in Ibusuki, Kagoshima, Japan, in February 2020. The 27 full papers presented were thoroughly reviewed and selected from 68 submissions. The papers in the volume are organized according to the following topics: real-world applications; face, pose, and action

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recognition; object detection and tracking; inspection and diagnosis; camera, 3D and imaging.

This book presents the select proceedings of Control Instrumentation and System Conference, (CISCON 2020) held at Manipal Institute of Technology, MAHE, Manipal. It examines a wide spectrum

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covering the latest trends in the fields of instrumentation, sensors and systems, and industrial automation and control. The topics covered include image and signal processing, robotics, renewable energy, power systems and power drives, performance attributes of MEMS, multi-sensor data fusion, machine learning,

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optimization techniques, process control, safety monitoring, safety critical control, supervisory control, system modeling and virtual instrumentation. The book is a valuable reference for researchers and professionals interested in sensors, adaptive control, automation and control and allied fields.

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This book features the latest theoretical results and techniques in the field of guidance, navigation, and control (GNC) of vehicles and aircraft. It covers a range of topics, including, but not limited to, intelligent computing communication and control; new methods of navigation, estimation, and tracking; control of

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multiple moving objects; manned and autonomous unmanned systems; guidance, navigation, and control of miniature aircraft; and sensor systems for guidance, navigation, and control. Presenting recent advances in the form of illustrations, tables, and text, it also provides detailed information of a number of the studies, to

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offer readers insights for their own research. In addition, the book addresses fundamental concepts and studies in the development of GNC, making it a valuable resource for both beginners and researchers wanting to further their understanding of guidance, navigation, and control.



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This book constitutes the refereed proceedings of two workshops held at the 18th International Conference on Computer Analysis of Images and Patterns, CAIP 2019, held in Salerno, Italy, in September 2019: First Workshop on Deep-learning based Computer Vision for UAV, DL-UAV 2019, and the First

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Workshop on Visual Computing and Machine Learning for Biomedical Applications, ViMaBi 2019. The 12 papers presented in this volume were carefully reviewed and selected from 16 submissions and focus on all aspects of visual computing and machine learning for biomedical applications, and deep-learning

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based computer vision for UAV.

Third International Conference, INTAP  
2020, Gjøvik, Norway, September 28–30,  
2020, Revised Selected Papers

Frontier Computing

Cognitive Multitasking – Towards  
Augmented Intelligence

9th International Work-Conference,

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IWBBIO 2022, Maspalomas, Gran Canaria, Spain, June 27–30, 2022, Proceedings, Part I

Computer Networks and Inventive Communication Technologies

Third International Conference, Held as Part of the Services Conference

Federation, SCF 2019, San Diego, CA,

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USA, June 25–30, 2019, Proceedings  
Algorithms and Applications  
From Traces to Data

**This volume constitutes the  
proceedings of the 9th  
International Work-  
Conference on IWBBIO 2020,**

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**held in Maspalomas, Gran  
Canaria, Spain, in June 2022.  
The total of 75 papers  
presented in the proceedings,  
was carefully reviewed and  
selected from 212  
submissions. The papers**

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**cover the latest ideas and  
realizations in the  
foundations, theory, models,  
and applications for  
interdisciplinary and  
multidisciplinary research  
encompassing disciplines of**

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**computer science,  
mathematics, statistics,  
biology, bioinformatics, and  
biomedicine.**

**This book gathers the  
proceedings of the 10th  
International Conference on**



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**Frontier Computing, held in  
Singapore, on July 10–13,  
2020, and provides  
comprehensive coverage of  
the latest advances and  
trends in information  
technology, science, and**

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**engineering. It addresses a number of broad themes, including communication networks, business intelligence and knowledge management, web intelligence, and related fields**

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**that inspire the development of information technology. The respective contributions cover a wide range of topics: database and data mining, networking and communications, web and**

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**Internet of things, embedded systems, soft computing, social network analysis, security and privacy, optical communication, and ubiquitous/pervasive computing. Many of the**

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**papers outline promising  
future research directions,  
and the book benefits  
students, researchers, and  
professionals alike. Further, it  
offers a useful reference  
guide for newcomers to the**

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**field.**

**This book gathers the joint  
proceedings of the VIII Latin  
American Conference on  
Biomedical Engineering  
(CLAIB 2019) and the XLII  
National Conference on**

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**Biomedical Engineering (CNIB  
2019). It reports on the latest  
findings and technological  
outcomes in the biomedical  
engineering field. Topics  
include: biomedical signal and  
image processing; biosensors,**

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**bioinstrumentation and micro-  
nanotechnologies;  
biomaterials and tissue  
engineering. Advances in  
biomechanics, biorobotics,  
neurorehabilitation, medical  
physics and clinical**



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**engineering are also discussed. A special emphasis is given to practice-oriented research and to the implementation of new technologies in clinical settings. The book provides**

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**academics and professionals  
with extensive knowledge on  
and a timely snapshot of  
cutting-edge research and  
developments in the field of  
biomedical engineering.  
This book constitutes the**

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**refereed proceedings of the  
11 workshops co-located with  
the 16th International  
Conference on Practical  
Applications of Agents and  
Multi-Agent Systems, PAAMS  
2018, held in Toledo, Spain, in**

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**June 2018. The 47 full papers presented were carefully reviewed and selected from 72 submissions. The volume presents the papers that have been accepted for the following workshops:**

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**Workshop on Agents and  
Multi-agent Systems for AAL  
and e-HEALTH; Workshop on  
Agent based Applications for  
Air Transport; Workshop on  
Agent-based Artificial Markets  
Computational Economics;**

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**Workshop on Agent-Based  
Solutions for Manufacturing  
and Supply Chain; Workshop  
on MAS for Complex Networks  
and Social Computation;  
Workshop on Intelligent  
Systems and Context**

*Page 190/198*

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**Information Fusion; Workshop  
on Multi-agent based  
Applications for Energy  
Markets, Smart Grids and  
Sustainable Energy Systems;  
Workshop on Multiagent  
System based Learning**

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**Environments; Workshop on  
Smart Cities and Intelligent  
Agents; Workshop on Swarm  
Intelligence and Swarm  
Robotics; Workshop on Multi-  
Agent Systems and  
Simulation.**



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**Edge Computing – EDGE 2019  
ICCVBIC 2019  
Information Technology and  
Systems  
Proceedings of the 1st  
International Conference on  
Data Science, Machine**

*Page 193/198*

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**Learning and Applications  
New Approaches for  
Multidimensional Signal  
Processing  
Mastering Computer Vision  
with TensorFlow 2.x  
Smart Sensors Measurements**

*Page 194/198*

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**and Instrumentation  
Proceedings of 2020  
International Conference on  
Guidance, Navigation and  
Control, ICGNC 2020, Tianjin,  
China, October 23–25, 2020**

This book constitutes the

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proceedings of the Third International Conference on Edge Computing, EDGE 2019, held in San Diego, CA, USA, in June 2019. The 5 full papers and 1 short paper presented in this volume were carefully reviewed and selected from

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14 submissions. The contributions deal with the latest fundamental advances in the state of the art and practice of edge computing, identifying emerging research topics and defining the future of edge computing.

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Cyber Security, Cryptology, and  
Machine Learning  
21st Scandinavian Conference,  
SCIA 2019, Norrköping, Sweden,  
June 11–13, 2019, Proceedings