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*Virtual, Augmented and Mixed Reality. Design and Interaction* Jessie Y. C. Chen 2020-07-10 The 2 volume-set of LNCS 12190 and 12191 constitutes the refereed proceedings of the 12th International

Conference on Virtual, Augmented and Mixed Reality, VAMR 2020, which was due to be held in July 2020 as part of HCI International 2020 in Copenhagen, Denmark. The conference was held virtually due to the COVID-19 pandemic. A total of

1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings from a total of 6326 submissions. The 71 papers included in these HCI 2020 proceedings were organized in topical sections as follows: Part I: design and user experience in VAMR; gestures and haptic interaction in VAMR; cognitive, psychological and health aspects in VAMR; robots in VAMR. Part II: VAMR for training, guidance and assistance in industry and business; learning, narrative, storytelling and cultural applications of VAMR; VAMR for health, well-being and medicine.

**Innovative Topologies and Algorithms for Neural Networks** Salvatore Graziani 2021-04-01 The introduction of new topologies and training procedures to deep neural networks has solicited a renewed interest in the field of neural computation. The use of deep structures has significantly improved state-of-the-art applications in many

fields, such as computer vision, speech and text processing, medical applications, and IoT (Internet of Things). The probability of a successful outcome from a neural network is linked to selection of an appropriate network architecture and training algorithm. Accordingly, much of the recent research on neural networks has been devoted to the study and proposal of novel architectures, including solutions tailored to specific problems. This book gives significant contributions to the above-mentioned fields by merging theoretical aspects and relevant applications.

**Computer Vision - ACCV 2014 Workshops** C.V. Jawahar 2015-04-11 The three-volume set, consisting of LNCS 9008, 9009, and 9010, contains carefully reviewed and selected papers presented at 15 workshops held in conjunction with the 12th Asian Conference on Computer Vision, ACCV 2014, in Singapore, in November 2014. The 153 full

papers presented were selected from numerous submissions. LNCS 9008 contains the papers selected for the Workshop on Human Gait and Action Analysis in the Wild, the Second International Workshop on Big Data in 3D Computer Vision, the Workshop on Deep Learning on Visual Data, the Workshop on Scene Understanding for Autonomous Systems and the Workshop on Robust Local Descriptors for Computer Vision. LNCS 9009 contains the papers selected for the Workshop on Emerging Topics on Image Restoration and Enhancement, the First International Workshop on Robust Reading, the Second Workshop on User-Centred Computer Vision, the International Workshop on Video Segmentation in Computer Vision, the Workshop: My Car Has Eyes: Intelligent Vehicle with Vision Technology, the Third Workshop on E-Heritage and the Workshop on Computer Vision for Affective Computing. LNCS

9010 contains the papers selected for the Workshop on Feature and Similarity for Computer Vision, the Third International Workshop on Intelligent Mobile and Egocentric Vision and the Workshop on Human Identification for Surveillance.

*Emerging zoonoses: eco-epidemiology, involved mechanisms and public health implications* Rubén Bueno-Marí 2015-07-06 Zoonoses are currently considered as one of the most important threats for public health worldwide. Zoonoses can be defined as any disease or infection that is naturally transmissible from vertebrate or invertebrate animals to humans and vice-versa. Approximately 75% of recently emerging infectious diseases affecting humans are diseases of animal origin; approximately 60% of all human pathogens are zoonotic. All types of potential pathogenic agents, including viruses, parasites, bacteria and fungi, can cause these zoonotic infections. From the wide

range of potential vectors of zoonoses, insects are probably those of major significance due to their abundance, high plasticity and adaptability to different kinds of pathogens, high degrees of synanthropism in several groups and difficulties to apply effective programs of population control. Although ticks, flies, cockroaches, bugs and fleas are excellent insects capable to transmit viruses, parasites and bacteria, undoubtedly mosquitoes are the most important disease vectors. Mosquito borne diseases like malaria, dengue, equine encephalitis, West Nile, Mayaro or Chikungunya are zoonoses with increasing incidence in last years in tropical and temperate countries. Vertebrates can also transmit serious zoonoses, highlighting the role of some carnivorous animals in rabies dissemination or the spread of rodent borne diseases in several rural and urban areas. Moreover, the significance of other food borne zoonoses such as taeniasis, trichinellosis or

toxoplasmosis may not been underestimated. According to WHO, FAO and OIE guidelines an emerging zoonotic disease can be defined as a zoonosis that is newly recognized or newly evolved, or that has occurred previously but shows an increase of incidence or expansion in geographical, host or vector range. There are many factors that can provoke or accelerate the emergence of zoonoses, such as environmental changes, habitat modifications, variations of human and animal demography, pathogens and vectors anomalous mobilization related with human practices and globalization, deterioration of the strategies of vector control or changes in pathogen genetics. To reduce public health risks from zoonoses is absolutely necessary to acquire an integrative perspective that includes the study of the complexity of interactions among humans, animals and environment in order to be able to fight

against these issues of primary interest for human health. In any case, although zoonoses represent significant public health threats, many of them still remain as neglected diseases and consequently are not prioritized by some health international organisms.

**Digital Forensics and Watermarking** Xianfeng Zhao 2022-01-20 This volume constitutes the proceedings of the 20th International Workshop on Digital Forensics and Watermarking, IWDW 2021, held in Beijing, China, in November 2021. The 18 full papers in this volume were carefully reviewed and selected from 32 submissions. They are categorized in the following topical headings: Forensics and Security Analysis; Watermarking and Steganology.

**Digital Forensics and Watermarking** Hongxia Wang 2020-03-25 The 22 full papers and 12 short papers presented in this volume were carefully reviewed and selected from 70 submissions. The contributions

are covering the following topics: deep learning for multimedia security; digital forensics and anti-forensics; digital watermarking; information hiding; steganography and steganalysis; authentication and security.

**Low Power Circuit Design Using Advanced CMOS Technology** Milin Zhang 2022-09-01 Low Power Circuit Design Using Advanced CMOS Technology is a summary of lectures from the first Advanced CMOS Technology Summer School (ACTS) 2017. The slides are selected from the handouts, while the text was edited according to the lecturers talk. ACTS is a joint activity supported by the IEEE Circuit and System Society (CASS) and the IEEE Solid-State Circuits Society (SSCS). The goal of the school is to provide society members as well researchers and engineers from industry the opportunity to learn about new emerging areas from leading experts in the field. ACTS is an example of high-level

continuous education for junior engineers, teachers in academe, and students. ACTS was the results of a successful collaboration between societies, the local chapter leaders, and industry leaders. This summer school was the brainchild of Dr. Zihua Wang, with strong support from volunteers from both the IEEE SSCS and CASS. In addition, the local companies, Synopsys China and Beijing IC Park, provided support. This first ACTS was held in the summer 2017 in Beijing. The lectures were given by academic researchers and industry experts, who presented each 6-hour long lectures on topics covering process technology, EDA skill, and circuit and layout design skills. The school was hosted and organized by the CASS Beijing Chapter, SSCS Beijing Chapter, and SSCS Tsinghua Student Chapter. The co-chairs of the first ACTS were Dr. Milin Zhang, Dr. Hanjun Jiang and Dr. Liyuan Liu. The first ACTS was a great success as illustrated by

the many participants from all over China as well as by the publicity it has been received in various media outlets, including Xinhua News, one of the most popular news channels in China.

*Computational Forensics* Utpal Garain 2015-06-26  
This book constitutes the refereed post-conference proceedings of the 5th and 6th International Workshops on Computational Forensics, IWCF 2012 and IWCF 2014, held in Tsukuba, Japan, in November 2010 and August 2014. The 16 revised full papers and 1 short paper were carefully selected from 34 submissions during a thorough review process. The papers are divided into three broad areas namely biometrics; document image inspection; and applications.

*Recent Advances in Intelligent Information Hiding and Multimedia Signal Processing* Jeng-Shyang Pan 2018-11-10  
This book features papers presented at IIH-MSP 2018, the 14th International Conference on

Intelligent Information Hiding and Multimedia Signal Processing. The scope of IIH-MSP included information hiding and security, multimedia signal processing and networking, and bio-inspired multimedia technologies and systems. The book discusses subjects related to massive image/video compression and transmission for emerging networks, advances in speech and language processing, recent advances in information hiding and signal processing for audio and speech signals, intelligent distribution systems and applications, recent advances in security and privacy for multimodal network environments, multimedia signal processing, and machine learning. Presenting the latest research outcomes and findings, it is suitable for researchers and students who are interested in the corresponding fields. IIH-MSP 2018 was held in Sendai, Japan on 26–28 November 2018. It was hosted by Tohoku University and was

co-sponsored by the Fujian University of Technology in China, the Taiwan Association for Web Intelligence Consortium in Taiwan, and the Swinburne University of Technology in Australia, as well as the Fujian Provincial Key Laboratory of Big Data Mining and Applications (Fujian University of Technology) and the Harbin Institute of Technology Shenzhen Graduate School in China. [Omics Data Integration towards Mining of Phenotype Specific Biomarkers in Cancer - Volume II](#) Liang Cheng 2022-11-29 *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications* Eduardo Bayro-Corrochano 2014-10-23 This book constitutes the refereed proceedings of the 19th Iberoamerican Congress on Pattern Recognition, CIARP 2014, held in Puerto Vallarta, Jalisco, Mexico, in November 2014. The 115 papers presented were carefully reviewed and selected from 160 submissions. The

papers are organized in topical sections on image coding, processing and analysis; segmentation, analysis of shape and texture; analysis of signal, speech and language; document processing and recognition; feature extraction, clustering and classification; pattern recognition and machine learning; neural networks for pattern recognition; computer vision and robot vision; video segmentation and tracking.

*Environmental Science and Information Application Technology* David Chan 2015-06-29 Environmental Science and Information Application Technology contains selected papers from the 2014 5th International Conference on Environmental Science and Information Application Technology (ESIAT 2014, Hong Kong, 7-8 November 2014). The book covers a wide variety of topics: - Global Environmental Change and Ecosystems Management - Graphic and I

**Cognitive Systems and Signal Processing** Fuchun Sun 2019-04-27 This two-volume set (CCIS 1005 and CCIS 1006) constitutes the refereed proceedings of the 4th International Conference on Cognitive Systems and Signal Processing, ICCSIP2018, held in Beijing, China, in November and December 2018. The 96 revised full papers presented were carefully reviewed and selected from 169 submissions. The papers are organized in topical sections on vision and image; algorithms; robotics; human-computer interaction; deep learning; information processing and automatic driving.

**Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014** Suresh Chandra Satapathy 2014-10-17 This volume contains 95 papers presented at FICTA 2014: Third International Conference on Frontiers in Intelligent Computing: Theory and Applications. The



conference was held during 14-15, November, 2014 at Bhubaneswar, Odisha, India. This volume contains papers mainly focused on Data Warehousing and Mining, Machine Learning, Mobile and Ubiquitous Computing, AI, E-commerce & Distributed Computing and Soft Computing, Evolutionary Computing, Bio-inspired Computing and its Applications.

**Advanced Machine Learning Technologies and Applications** About Ella Hassanien 2014-11-04 This book constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2014, held in Cairo, Egypt, in November 2014. The 49 full papers presented were carefully reviewed and selected from 101 initial submissions. The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology; recommendation systems for

cloud services; machine learning in watermarking/authentication and virtual machines; features extraction and classification; rough/fuzzy sets and applications; fuzzy multi-criteria decision making; Web-based application and case-based reasoning construction; social networks and big data sets.

**Ambient Ionization Mass Spectrometry** Marek Domin 2014-11-25 Ambient ionization has emerged as one of the hottest and fastest growing topics in mass spectrometry enabling sample analysis with minimal sample preparation. Introducing the subject and explaining the basic concepts and terminology, this book will provide a comprehensive, unique treatise devoted to the subject. Written by acknowledged experts, there are full descriptions on how new ionization techniques work, with an overview of their strengths, weaknesses and applications. This title will bring the reader right

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up to date, with both applications and theory, and will be suitable as a tutorial text for those starting in the field from a variety of disciplines.

**Machine Learning in Heliophysics** Thomas Berger  
2021-11-24

*Additive Logistic Regression* Jerome H. Friedman  
1998

**Marketing Research** Carl McDaniel, Jr. 2018-01-31  
In *Marketing Research*, 11th Edition, authors Carl McDaniel & Roger Gates share their industry experience to teach students how to make critical business decisions through the study of market research. Designed for marketing research courses, the authors' practical, applications-based approach features Real Data, Real People, and Real Research, to prepare students to conduct and use market research for future careers in business. *Marketing Research*, 11th Edition features new trends, features and cases throughout, with updated chapters

featuring new examples of companies and research firms, from Ilycaffè, the famous Italian coffee brand, Twitter, ESPN, Ford and General Motors. Co-author Roger Gates, President of DSS Research, infuses the text with a practitioner perspective, helping students learn how to use marketing research through a practical presentation of theory and practice.

**Pattern Recognition** Shutao Li 2014-11-05 The two-volume set CCIS 483 and CCIS 484 constitutes the refereed proceedings of the 6th Chinese Conference on Pattern Recognition, CCPR 2014, held in Changsha, China, in November 2014. The 112 revised full papers presented in two volumes were carefully reviewed and selected from 225 submissions. The papers are organized in topical sections on fundamentals of pattern recognition; feature extraction and classification; computer vision; image processing and analysis; video

processing and analysis; biometric and action recognition; biomedical image analysis; document and speech analysis; pattern recognition applications.

**Pattern Recognition** Christian Wallraven  
2022-05-10 This two-volume set LNCS 13188 - 13189 constitutes the refereed proceedings of the 6th Asian Conference on Pattern Recognition, ACPR 2021, held in Jeju Island, South Korea, in November 2021. The 85 full papers presented were carefully reviewed and selected from 154 submissions. The papers are organized in topics on: classification, action and video and motion, object detection and anomaly, segmentation, grouping and shape, face and body and biometrics, adversarial learning and networks, computational photography, learning theory and optimization, applications, medical and robotics, computer vision and robot vision.

Social Informatics Luca Maria Aiello 2015-02-27 This

book constitutes the proceedings of the Workshops held at the International Conference on Social Informatics, SocInfo 2014, which took place in Barcelona, Spain, in November 2014. This year SocInfo 2014 included nine satellite workshops: the City Labs Workshop, the Workshop on Criminal Network Analysis and Mining, CRIMENET, the Workshop on Interaction and Exchange in Social Media, DYAD, the Workshop on Exploration of Games and Gamers, EGG, the Workshop on HistoInformatics, the Workshop on Socio-Economic Dynamics, Networks and Agent-based Models, SEDNAM, the Workshop on Social Influence, SI, the Workshop on Social Scientists Working with Start-Ups and the Workshop on Social Media in Crowdsourcing and Human Computation, SoHuman. *Machine Learning Techniques Applied to Geoscience Information System and Remote Sensing* Hyung-Sup Jung 2019-09-03 As computer

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and space technologies have been developed, geoscience information systems (GIS) and remote sensing (RS) technologies, which deal with the geospatial information, have been rapidly maturing. Moreover, over the last few decades, machine learning techniques including artificial neural network (ANN), deep learning, decision tree, and support vector machine (SVM) have been successfully applied to geospatial science and engineering research fields. The machine learning techniques have been widely applied to GIS and RS research fields and have recently produced valuable results in the areas of geoscience, environment, natural hazards, and natural resources. This book is a collection representing novel contributions detailing machine learning techniques as applied to geoscience information systems and remote sensing. **Advances in Physical Agents** Raquel Fuentetaja Pizán 2018-11-20 The book reports on cutting-edge

theories and methods aimed at the control and coordination of agents acting and moving in a dynamic environment. It covers a wide range of systems, including multiagent systems, domotic agents, robotic manipulators, soccer robots, autonomous and semiautonomous robots, as well as systems for industrial applications. Advances in software agents, sensors, computer visions and other related areas are also thoroughly discussed and presented in detail. Based on the 19th edition of the International Workshop of Physical Agents (WAF 2018), held on November 22-23, 2018, in Madrid, Spain, this book offers a snapshot of the state-of-the-art in the field of physical agents, with a special emphasis on autonomous systems such as mobile robots, industrial process or other complex systems. Computer Vision -- ACCV 2014 Daniel Cremers 2015-04-16 The five-volume set LNCS 9003--9007 constitutes the thoroughly refereed post-conference

proceedings of the 12th Asian Conference on Computer Vision, ACCV 2014, held in Singapore, Singapore, in November 2014. The total of 227 contributions presented in these volumes was carefully reviewed and selected from 814 submissions. The papers are organized in topical sections on recognition; 3D vision; low-level vision and features; segmentation; face and gesture, tracking; stereo, physics, video and events; and poster sessions 1-3.

**Data Mining and Big Data** Ying Tan 2023-01-19

This two-volume set, CCIS 1744 and CCIS 1745 book constitutes the 7th International Conference, on Data Mining and Big Data, DMBD 2022, held in Beijing, China, in November 21–24, 2022. The 62 full papers presented in this two-volume set included in this book were carefully reviewed and selected from 135 submissions. The papers present the latest research on advantages in theories, technologies,

and applications in data mining and big data. The volume covers many aspects of data mining and big data as well as intelligent computing methods applied to all fields of computer science, machine learning, data mining and knowledge discovery, data science, etc.

**Power and Energy** Richard Kong 2015-05-06

Power and Energy contains 86 selected papers from the International Conference on Power and Energy (CPE 2014, Shanghai, China, 29-30 November 2014), and presents a wide range of topics:- Energy management, planning and policy-making- Energy technologies and environment- Energy prospects- Conventional and renewable power generation- Power system man

**Computer Vision – ACCV 2016 Workshops** Chu-

Song Chen 2017-03-14 The three-volume set, consisting of LNCS 10116, 10117, and 10118, contains carefully reviewed and selected papers presented at

17 workshops held in conjunction with the 13th Asian Conference on Computer Vision, ACCV 2016, in Taipei, Taiwan in November 2016. The 134 full papers presented were selected from 223 submissions. LNCS 10116 contains the papers selected

**Nature and Environment: The Psychology of Its**

**Benefits and Its Protection** Marc Glenn Berman

2017-04-20 Our Research Topic section entitled:

"Nature and the environment: The psychology of its benefits and its protection" will have two main lines. The first line of articles will center upon cutting-edge research showing how interacting with nature, can affect health, well-being, and overall improve cognition and affect. Articles in this line will stress in what ways nature can improve psychological functioning and health and also discuss the theories and evidence as to why nature can improve psychological functioning. For this line,

we welcome submission of articles that discuss the psychological, health and well-being benefits from interacting with nature as well as submissions that focus on theoretical considerations and underlying mechanisms that lead to the restorative effects of interacting with nature. Given that nature can have a positive impact on psychological functioning and overall health, it is also important to understand the variables that facilitate people's recognition of environmental issues that can help foster a more positive attitude towards the preservation of nature. This brings us to the second line of articles which will center upon the psychological mechanisms that make individuals more or less likely to accept the seriousness of environmental challenges such as climate change. Given the new cutting-edge research in this field we may be able to make individuals more proactive in the protection of the environment and more accepting of policy

measures required to mitigate climate change. We see this research topic as a way for psychological scientists to contribute substantially to an important area of public debate and policy. For this line we welcome articles that will focus on ways in which people respond to various framings of policy relevant information and how morality may play into the individuals policy views that center on climate change and environmental protection.

**Exploring Mechanisms of Cardiac Rhythm Disturbances Using Novel Computational Methods:**

**Prediction, Classification, and Therapy** Xin Li  
2023-03-16

**Advances in Intelligent Information Hiding and Multimedia Signal Processing** Jeng-Shyang Pan

2016-11-21 This volume of Smart Innovation, Systems and Technologies contains accepted papers presented in IIH-MSP-2016, the 12th International Conference on Intelligent Information Hiding and

Multimedia Signal Processing. The conference this year was technically co-sponsored by Tainan Chapter of IEEE Signal Processing Society, Fujian University of Technology, Chaoyang University of Technology, Taiwan Association for Web Intelligence Consortium, Fujian Provincial Key Laboratory of Big Data Mining and Applications (Fujian University of Technology), and Harbin Institute of Technology Shenzhen Graduate School. IIH-MSP 2016 is held in 21-23, November, 2016 in Kaohsiung, Taiwan. The conference is an international forum for the researchers and professionals in all areas of information hiding and multimedia signal processing.

*State-of-the-art Technology and Applications in Crop Phenomics* Wanneng Yang 2021-12-01

**Brain-image Based Computation for Supporting Clinical Decision in Neurological and Psychiatric Disorders** Lin Shi 2021-04-07

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Mobile Tech Report 2014 John R. Roberts

2014-01-10 If you read technology news, you'll notice it's not just a story of amazing new product introductions, or even that plus copycat product introductions. All the usual aspects of business are there: fierce competition, new contenders, old survivors, great ideas but business failures, mediocre ideas that somehow seem to succeed and prosper. As a reporter, commentator and blogger on mobile technology, I've collected what happened in the industry in 2013 and make predictions on what will and won't happen in 2014. You can read what did happen in the mobile technology in 2013. Often I deliver a comment with the news item and usually there is a link to the web page of the original announcement. This way you can dive into any detail level you desire, read my news feed for the overview or follow the related web link to the longer article. History is moving so fast now that it

is all recorded electronically, but I'm surprised no one else has collected it and presented it for consideration. Here is 2013 from the mobile technology industry for your consideration along with my own observations and opinions about where things are headed. It's often overlooked that the technology industry is an industry. By that I mean its main concerns are profit and growth. As consumers we love the new products and unique abilities we are gaining from technology, but it is a business akin to any other, trying to seduce us to pry money out of our wallets. So I cover the horse race aspect of the business, who's up, who's down. Is that changing? Is that likely to change? The longer implications of what the technology industry is doing are vast and social. We are moving to an always on, always connected society where we can communicate with someone instantly and find an answer to any question quickly. The entire database



of human knowledge is now available in the palm of your hand whenever you desire it. Everything is there, the good, the bad, right and wrong, hate and love, music and noise. We are obsessed with technology, not in and of itself, but as a means to an end. Technology is the means to satisfy our curiosity or even our desire for self-expression. We are taking photos machine gun-style with our smartphones and choose the few to share. As humans we are gathering ever more data about ourselves and sharing more about ourselves than we probably thought possible. Bill Gates was once asked why the computer industry had generated so much improvement in its products over a relatively few years. He gave some boring answer about Moore's Law, but the real answer is that computers are in their teenage years. They are growing and growing. They will not always do so. So too the technology industry is in a state of rapid change. I

see the shift to smaller devices as a new paradigm, smashing some businesses and growing others into giants. Their stories are here in the news. In short here are predictions for what won't and will happen in 2014 for the mobile technology industry, breakdowns of marketshare figures on the horse race aspect of the business, chapters on Apple, Samsung, Google, Microsoft, Nokia, Blackberry, Amazon, Yahoo, news about social media giants Facebook, Twitter, Google+, LinkedIn, Foursquare, SnapChat and the carriers themselves Verizon, AT&T, Sprint and T-Mobile. You can also review my 2013 mobile predictions and see my track record on predictions. Finally there are some essays on how all this mobile tech is figuring into our lives. I've divided the news into the subjects it covers, but also put in the appendix all the news as it came out in chronological ordering. You can read the firehose of events in the appendix, or just read

about one topic at a time in the earlier chapters.

Table of Contents Preface Introduction Chapter 1:  
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Carriers Chapter 13: 2013 Predictions Chapter 14:  
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Computer Vision – ACCV 2020 Hiroshi Ishikawa  
2021-02-24 The six volume set of LNCS  
12622-12627 constitutes the proceedings of the 15th  
Asian Conference on Computer Vision, ACCV 2020,  
held in Kyoto, Japan, in November/ December  
2020.\* The total of 254 contributions was carefully  
reviewed and selected from 768 submissions during  
two rounds of reviewing and improvement. The  
papers focus on the following topics: Part I: 3D  
computer vision; segmentation and grouping Part

II: low-level vision, image processing; motion and  
tracking Part III: recognition and detection;  
optimization, statistical methods, and learning; robot  
vision Part IV: deep learning for computer vision,  
generative models for computer vision Part V: face,  
pose, action, and gesture; video analysis and event  
recognition; biomedical image analysis Part VI:  
applications of computer vision; vision for X; datasets  
and performance analysis \*The conference was held  
virtually.

*Image and Video Technology* Manoranjan Paul  
2018-02-15 This book constitutes the thoroughly  
refereed post-conference proceedings of the 8th  
Pacific Rim Symposium on Image and Video  
Technology, PSIVT 2017, held in Wuhan, China, in  
November 2017. The total of 39 revised papers was  
carefully reviewed and selected from 91  
submissions. The Pacific-Rim Symposium on Image  
and Video Technology (PSIVT) is a high-quality

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series of symposia that aim at providing a forum for researchers and practitioners who are being involved, or are contributing to theoretical advances or practical implementations in image and video technology.

### Legal Tech and the New Sharing Economy

Marcelo Corrales Compagnucci 2019-12-13 The exponential growth of disruptive technology is changing our world. The development of cloud computing, big data, the internet of things, artificial intelligence, machine learning, deep learning, and other related autonomous systems, such as self-driving vehicles, have triggered the emergence of new products and services. These significant technological breakthroughs have opened the door to new economic models such as the sharing and platform-based economy. As a result, companies are becoming increasingly data- and algorithm-driven, coming to be more like “decentralized platforms”.

New transaction or payment methods such as Bitcoin and Ethereum, based on trust-building systems using Blockchain, smart contracts, and other distributed ledger technology, also constitute an essential part of this new economic model. The sharing economy and digital platforms also include the everyday exchange of goods allowing individuals to commodify their surplus resources. Information and innovation technologies are used in order to then match these resources with existing demand in the market. Online platforms such as Airbnb, Uber, and Amazon reduce information asymmetry, increase the value of unused resources, and create new opportunities for collaboration and innovation. Moreover, the sharing economy is playing a major role in the transition from exclusive ownership of personal assets toward access-based exploitation of resources. The success of online matching platforms depends not only on the

reduction of search costs but also on the trustworthiness of platform operators. From a legal perspective, the uncertainties triggered by the emergence of a new digital reality are particularly urgent. How should these tendencies be reflected in legal systems in each jurisdiction? This book collects a series of contributions by leading scholars in the newly emerging fields of sharing economy and Legal Tech. The aim of the book is to enrich legal debates on the social, economic, and political meaning of these cutting-edge technologies. The chapters presented in this edition attempt to answer some of these lingering questions from the perspective of diverse legal backgrounds.

**High-Throughput Field Phenotyping to Advance Precision Agriculture and Enhance Genetic Gain**

Urs Schmidhalter 2021-08-10

**Quantitative analysis of neuroanatomy** Julian M L Budd 2016-03-22 The true revolution in the age of

digital neuroanatomy is the ability to extensively quantify anatomical structures and thus investigate structure-function relationships in great detail. Large-scale projects were recently launched with the aim of providing infrastructure for brain simulations. These projects will increase the need for a precise understanding of brain structure, e.g., through statistical analysis and models. From articles in this Research Topic, we identify three main themes that clearly illustrate how new quantitative approaches are helping advance our understanding of neural structure and function. First, new approaches to reconstruct neurons and circuits from empirical data are aiding neuroanatomical mapping. Second, methods are introduced to improve understanding of the underlying principles of organization. Third, by combining existing knowledge from lower levels of organization, models can be used to make testable predictions

about a higher-level organization where knowledge is absent or poor. This latter approach is useful for examining statistical properties of specific network connectivity when current experimental methods have not yet been able to fully reconstruct whole circuits of more than a few hundred neurons.

### A Biography of the Pixel Alvy Ray Smith

2021-08-03 The pixel as the organizing principle of all pictures, from cave paintings to Toy Story. The Great Digital Convergence of all media types into one universal digital medium occurred, with little fanfare, at the recent turn of the millennium. The bit became the universal medium, and the pixel--a particular packaging of bits--conquered the world. Henceforward, nearly every picture in the world would be composed of pixels--cell phone pictures, app interfaces, Mars Rover transmissions, book illustrations, videogames. In A Biography of the Pixel, Pixar cofounder Alvy Ray Smith argues that

the pixel is the organizing principle of most modern media, and he presents a few simple but profound ideas that unify the dazzling varieties of digital image making. Smith's story of the pixel's development begins with Fourier waves, proceeds through Turing machines, and ends with the first digital movies from Pixar, DreamWorks, and Blue Sky. Today, almost all the pictures we encounter are digital--mediated by the pixel and irretrievably separated from their media; museums and kindergartens are two of the last outposts of the analog. Smith explains, engagingly and accessibly, how pictures composed of invisible stuff become visible--that is, how digital pixels convert to analog display elements. Taking the special case of digital movies to represent all of Digital Light (his term for pictures constructed of pixels), and drawing on his decades of work in the field, Smith approaches his subject from multiple angles--art, technology,

entertainment, business, and history. A Biography of the Pixel is essential reading for anyone who has watched a video on a cell phone, played a

videogame, or seen a movie. 400 pages of annotations, prepared by the author and available online, provide an invaluable resource for readers.