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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.

Modern Design Technologies and Experiment for Advanced Manufacture and Industry Chien Hung Liu 2015-05-28 Collection of selected, peer reviewed papers from the 3rd International Conference on Engineering and Technology Innovation held in Kenting, Pingtung, Taiwan, R.O.C., October 31 □ November 4, 2014. The 275 papers are grouped as follows: Chapter 1: Materials Processing Technologies and Analysis, Materials Engineering; Chapter 2: Advanced Design for Thermal and Mechanical Engineering; Chapter 3: Development and Technologies in Electrical and Electronic Engineering, Communication and Power Engineering Applications; Chapter 4: Control and Automation Technology, Mechatronics, Robotics for Manufacture and Industry; Chapter 5: Advanced Development for Information Technologies and Engineering, Networks and Software Applications, Data Acquisition and Processing, Intelligent Systems; Chapter 6: Modern Design for Green and Environmental Technologies, Energy-Saving Technologies, Structural and Civil Engineering, Applied Mechanics Applications; Chapter 7: Contemporary Development for Optical Engineering, Image Processing, Quality and Analysis, Measurement, Instrumentation and Detection Technologies Chapter 8: Innovation in Management and Design, Related Topics

Information and Communication Technology Linawati 2014-03-25 This book constitutes the refereed proceedings of the Second IFIP TC 5/8 International Conference on Information and Communication Technology, ICT-Eur Asia 2014, with the collocation of Asia ARES 2014 as a special track on Availability, Reliability and Security, held in Bali, Indonesia, in April 2014. The 70 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers have been organized in the following topical sections: applied modeling and simulation; mobile computing; advanced urban-scale ICT applications; semantic web and knowledge management; cloud computing; image processing; software engineering; collaboration technologies and systems; e-learning; data warehousing and data mining; e-government and e-health; biometric and bioinformatics systems; network security; dependable systems and

applications; privacy and trust management; cryptography; multimedia security and dependable systems 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.

The Difference Imaging Pipeline for the Transient Search in the Dark Energy Survey 2015 We describe the operation and performance of the difference imaging pipeline (DiffImg) used to detect transients in deep images from the Dark Energy Survey Supernova program (DES-SN) in its first observing season from 2013 August through 2014 February. DES-SN is a search for transients in which ten 3 deg2 fields are repeatedly observed in the g, r, i, zpassbands with a cadence of about 1 week. Our observing strategy has been optimized to measure high-quality light curves and redshifts for thousands of Type Ia supernovae (SNe Ia) with the goal of measuring dark energy parameters. The essential DiffImg functions are to align each search image to a deep reference image, do a pixel-by-pixel subtraction, and then examine the subtracted image for significant positive detections of point-source objects. The vast majority of detections are subtraction artifacts, but after selection requirements and image filtering with an automated scanning program, there are ~130 detections per deg2 per observation in each band, of which only ~25% are artifacts. Of the ~7500 transients discovered by DES-SN in its first observing season, each requiring a detection on at least two separate nights, Monte Carlo (MC) simulations predict that 27% are expected to be SNe Ia or core-collapse SNe. Another ~30% of the transients are artifacts in which a small number of observations satisfy the selection criteria for a single-epoch detection. Spectroscopic analysis shows that most of the remaining transients are AGNs and variable stars. Fake SNe Ia are overlaid onto the images to rigorously evaluate detection efficiencies and to understand the DiffImg performance. Furthermore, the DiffImg efficiency measured with fake SNe agrees well with expectations from a MC simulation that uses analytical calculations of the fluxes and their uncertainties. In our 8 "shallow" fields with single-epoch 50% completeness depth ~23.5, the SN Ia efficiency falls to 1/2 at redshift $z \approx 0.7$; in our 2 "deep" fields with mag-depth ~24.5, the efficiency falls to 1/2 at $z \approx 1.1$. A remaining performance issue is that the measured fluxes have additional scatter (beyond Poisson fluctuations) that increases with the host galaxy surface brightness at the transient location. This bright-galaxy issue has minimal impact on the SNe Ia program, but it may lower the efficiency for finding fainter transients on bright galaxies.

Activity Monitoring by Multiple Distributed Sensing Pier Luigi Mazzeo 2014-11-19 This book constitutes the thoroughly refereed post-conference proceedings of the Second International Workshop on Activity Monitoring by Multiple Distributed Sensing, AMMDS 2014, held in Stockholm, Sweden, in August 2014, as a satellite event of ICPR 2014, the 22nd International Conference on Pattern Recognition. The 9 revised full papers included in the volume investigate the challenges that arise when distributed sensor networks are used to track, monitor, and understand the activity, intent, and motives of human beings. Application areas include human-computer interaction, user interface design, robot learning, and surveillance.

Water Is... Nina Munteanu 2015-01 Part history, part science and part philosophy and spirituality, "Water Is..." combines personal journey with scientific discovery that explores water's many identities and ultimately our own. Written by internationally published author, teacher and limnologist Nina Munteanu.

Modern Technologies for Landslide Monitoring and Prediction Marco Scaioni 2015-01-23 Modern Technologies for Landslide Investigation and Prediction presents eleven contributed chapters from Chinese and Italian authors, as a follow-up of a bilateral workshop held in Shanghai on September 2013. Chapters are organized in three main parts: ground-based monitoring techniques (photogrammetry, terrestrial laser scanning, ground-based InSAR, infrared thermography, and GNSS networks), geophysical (passive seismic sensor networks) and geotechnical methods (SPH and SLIDE), and satellite remote-sensing techniques (InSAR and optical images). Authors of these contributes are internationally-recognized experts in their respective research fields. Marco Scaioni works in the college of Surveying and Geo-Informatics at Tongji University, Shanghai (P.R. China). His research fields are mainly Close-range Photogrammetry, Terrestrial Laser Scanning, and other ground-based sensors for metrological and deformation monitoring applications to structural engineering and geosciences. In the period 2012-2016 he is chairman of the Working Group V/3 in the International Society for Photogrammetry and Remote Sensing, focusing on ‘Terrestrial 3D Imaging and Sensors’.

Advances in Image and Graphics Technologies Tieniu Tan 2014-10-20 This book constitutes the referred proceedings of the 8th China Conference on Image and Graphics Technologies and Applications, IGTA 2014, held in Beijing, China, in June 2014. The 39 papers presented were carefully reviewed and selected from 110 submissions. They cover various aspects of research in image processing and graphics and related topics, including object detection, pattern recognition, object tracking, classification, image segmentation, reconstruction, etc.

Advanced Machine Learning Technologies and Applications Aboul 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.

An Astrobiology Strategy for the Search for Life in the Universe National Academies of Sciences, Engineering, and Medicine 2019-04-20 Astrobiology is the study of the origin, evolution, distribution, and future of life in the universe. It is an inherently interdisciplinary field that encompasses astronomy, biology, geology, heliophysics,

and planetary science, including complementary laboratory activities and field studies conducted in a wide range of terrestrial environments. Combining inherent scientific interest and public appeal, the search for life in the solar system and beyond provides a scientific rationale for many current and future activities carried out by the National Aeronautics and Science Administration (NASA) and other national and international agencies and organizations. Requested by NASA, this study offers a science strategy for astrobiology that outlines key scientific questions, identifies the most promising research in the field, and indicates the extent to which the mission priorities in existing decadal surveys address the search for life's origin, evolution, distribution, and future in the universe. This report makes recommendations for advancing the research, obtaining the measurements, and realizing NASA's goal to search for signs of life in the universe.

A Diary in the Age of Water Nina Munteanu 2020-05-30 Centuries from now, in a post-climate change dying boreal forest of what used to be northern Canada, Kyo, a young acolyte called to service in the Exodus, discovers a diary that may provide her with the answers to her yearning for Earth's past--to the Age of Water, when the "Water Twins" destroyed humanity in hatred--events that have plagued her nightly in dreams. Looking for answers to this holocaust--and disturbed by her macabre longing for connection to the Water Twins--Kyo is led to the diary of a limnologist from the time just prior to the destruction. This gritty memoir describes a near-future Toronto in the grips of severe water scarcity during a time when China owns the USA and the USA owns Canada. The diary spans a twenty-year period in the mid-twenty-first century of 33-year-old Lynna, a single mother who works in Toronto for CanadaCorp, an international utility that controls everything about water, and who witnesses disturbing events that she doesn't realize will soon lead to humanity's demise. A Diary in the Age of Water follows the climate-induced journey of Earth and humanity through four generations of women, each with a unique relationship to water. The novel explores identify and our concept of what is "normal"--as a nation and an individual--in a world that is rapidly and incomprehensibly changing.

Chaos & Complexity Brian Howard Kaye 1993

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.

Neil Armstrong Jay Barbree 2014-07-08 Much has been written about Neil Armstrong, America's modern hero and history's most famous space traveler. Yet shy of fame and never one to steal the spotlight Armstrong was always reluctant to discuss his personal side of events. Here for the first time is the definitive story of Neil's life of flight he shared for five decades with a trusted friend – Jay Barbree. Working from 50 years of conversations he had with Neil, from notes, interviews, NASA spaceflight transcripts, and remembrances of those Armstrong trusted, Barbree writes about Neil's three passions – flight, family, and friends. This is the inside story of Neil Armstrong from the time he flew combat missions in the Korean War and then flew a rocket plane called the X-15 to the edge of space, to when he saved his Gemini 8 by flying the first emergency return from Earth orbit and then flew Apollo-Eleven to the moon's Sea of Tranquility. Together Neil and Jay discussed everything, from his love of

flying, to the war years, and of course his time in space. The book is full of never-before-seen photos and personal details written down for the first time, including what Armstrong really felt when he took that first step on the moon, what life in NASA was like, his relationships with the other astronauts, and what he felt the future of space exploration should be. As the only reporter to have covered all 166 American astronaut flights and moon landings Jay knows these events intimately. Neil Armstrong himself said, "Barbree is history's most experienced space journalist. He is exceptionally well qualified to recall and write the events and emotions of our time." Through his friendship with Neil and his dedicated research, Barbree brings us the most accurate account of his friend's life of flight, the book he planned for twenty years.

Wireless Video Communications Lajos Hanzo 2001-03-12 Bridging the gap between the video compression and communication communities, this unique volume provides an all-encompassing treatment of wireless video communications, compression, channel coding, and wireless transmission as a joint subject. WIRELESS VIDEO COMMUNICATIONS begins with relatively simple compression and information theoretical principles, continues through state-of-the-art and future concepts, and concludes with implementation-ready system solutions. This book's deductive presentation and broad scope make it essential for anyone interested in wireless communications. It systematically converts the lessons of Shannon's information theory into design principles applicable to practical wireless systems. It provides in a comprehensive manner "implementation-ready" overall system design and performance studies, giving cognizance to the contradictory design requirements of video quality, bit rate, delay, complexity error resilience, and other related system design aspects. Topics covered include information theoretical foundations block-based and convolutional channel coding very-low-bit-rate video codecs and multimode videophone transceivers high-resolution video coding using both proprietary and standard schemes CDMA/OFDM systems, third-generation and beyond adaptive video systems. WIRELESS VIDEO COMMUNICATIONS is a valuable reference for postgraduate researchers, system engineers, industrialists, managers and visual communications practitioners.

Video Analytics for Audience Measurement Cosimo Distante 2014-10-30 This book constitutes the refereed contest reports of the 1st International Workshop, VAAM 2014, held in Stockholm, Sweden, in August 2014. The 10 revised full papers presented were carefully reviewed and selected from 13 submissions. The aim of this workshop is to provide an overview of state of the art methods for audience measurements in retail and Digital Signage, end-users attraction, and stimulate the creation of appropriate benchmark dataset to be used as reference for the development of novel audience measurement algorithms. Papers are invited under the following topics: demographics and modeling consumer behaviour.

Pattern Models Narendra Ahuja 1983

Advances in Measurements and Information Technologies Prasad Yarlagadda 2014-02-27 Collection of selected, peer reviewed papers from the 2014 International Conference on Sensors, Instrument and Information Technology (ICSIIT 2014), January 18-19, 2014, Guangzhou, China. The 228 papers are grouped as follows: Chapter 1: Design and Research of Sensors, Chapter 2: Technologies of Measurements, Chapter 3: Equipment and Instruments for Measurements, Chapter 4: Testing, Monitoring, Detecting: Theory and Applications, Chapter 5: Signal and Data Processing, Computational Mathematics and Artificial Intelligence, Chapter 6: Communications and Network Technologies, Chapter 7: Database Systems, Chapter 8: Computer Software Engineering, Chapter 9: Computer Design and Researches in the Field of Engineering, Chapter 10: Robotics, Control and Automation Systems, Chapter

11: Electronic Devices and Embedded Systems, Chapter 12: Applied Information Technologies in Engineering Management
Sensors, Measurement, Intelligent Materials and Technologies III Yun Hae Kim 2015-03-09 Collection of selected, peer reviewed papers from the 2014 3rd International Conference on Sensors, Measurement and Intelligent Materials (ICSMIM 2014), November 25-26, 2014, Zhuhai, China. The 269 papers are grouped as follows: Chapter 1: Sensors and Materials for Sensors, their Applications; Chapter 2: Smart and Functional Materials and Technologies, Analysis, Design, Processing; Chapter 3: Remote Sensing and Telemetry Technology; Chapter 4: Intelligent Information and Expert Systems, Applications for Management and Product Design; Chapter 5: Algorithms, Computation Methods and their Applications; Chapter 6: Mathematical Methods and Modelling, Information Technologies in Industrial Engineering; Chapter 7: Data, Text, Sound, Image, Signal and Video Processing and Technologies, Data Acquistion, their Applications; Chapter 8: Testing, Detection, Measurement, Monitoring Technologies and Instruments; Chapter 9: Mechatronics, Industrial Robotics, Automation and Control Technology; Chapter 10: Computer Networks, Communication Technology and E-Commerce; Chapter 11: Modern Electronic, Circuit Technology, Electrical and Power Engineering; Chapter 12: Software Applications and Development.
Proxies Dylan Mulvin 2021-08-17 How those with the power to design technology, in the very moment of design, are allowed to imagine who is included--and who is excluded--in the future. Our world is built on an array of standards we are compelled to share. In Proxies, Dylan Mulvin examines how we arrive at those standards, asking, "To whom and to what do we delegate the power to stand in for the world?" Mulvin shows how those with the power to design technology, in the very moment of design, are allowed to imagine who is included--and who is excluded--in the future. For designers of technology, some bits of the world end up standing in for other bits, standards with which they build and calibrate. These "proxies" carry specific values, even as they disappear from view. Mulvin explores the ways technologies, standards, and infrastructures inescapably reflect the cultural milieus of their bureaucratic homes. Drawing on archival research, he investigates some of the basic building-blocks of our shared infrastructures. He tells the history of technology through the labor and communal practices of, among others, the people who clean kilograms to make the metric system run, the women who pose as test images, and the actors who embody disease and disability for medical students. Each case maps the ways standards and infrastructure rely on prototypical ideas of whiteness, able-bodiedness, and purity to control and contain the messiness of reality. Standards and infrastructures, Mulvin argues, shape and distort the possibilities of representation, the meaning of difference, and the levers of change and social justice.
The Boy Who Grew Dragons Andy Shepherd 2020-02-04 "'The Boy Who Grew Dragons' is good-hearted fantasy fun."-New York Times Book Review "This gently funny title is a must-purchase for public libraries, and a great recommendation for readers of all ages"-School Library Journal, STARRED REVIEW "Never has so much toilet humor been so charming."-Kirkus Reviews "Readers will be eager for more."-Booklist This hilarious middle-grade novel with illustrations throughout sees Tomas discover that he can grow dragons in his own garden! When Tomas discovers a strange old tree at the bottom of his grandfather's garden, he doesn't think much of it. But he takes the funny fruit from the tree back into the house and gets the shock of his life when a tiny dragon hatches! The tree is a dragon fruit tree, and Tomas now has his very own dragon, Flicker! While Tomas finds out that life with Flicker is fun, he also finds that it is very...unpredictable. Yes, dragons are wonderful, but they also set fire to your toothbrush and leave your underwear hanging from the TV antenna. Tomas has to learn how to look after Flicker---and quickly!

And then something extraordinary happens: More dragon fruits appear on the tree! Now it's official, Tomas is growing dragons.

Active Media Technology Dominik Slezak 2014-07-14 This book constitutes the proceedings of the 10th International Conference on Active Media Technology, AMT 2014, held in Warsaw, Poland, in August 2014, held as part of the 2014 Web Intelligence Congress, WIC 2014. The 47 full papers presented were carefully reviewed and selected from numerous submissions. The topics of these papers encompass active computer systems; interactive systems and applications of AMT-based systems; active media machine learning and data mining techniques; AMT for the semantic web; social networks and cognitive foundations.

Vision and Voyages for Planetary Science in the Decade 2013-2022 National Research Council 2012-01-30 In recent years, planetary science has seen a tremendous growth in new knowledge. Deposits of water ice exist at the Moon's poles. Discoveries on the surface of Mars point to an early warm wet climate, and perhaps conditions under which life could have emerged. Liquid methane rain falls on Saturn's moon Titan, creating rivers, lakes, and geologic landscapes with uncanny resemblances to Earth's. Vision and Voyages for Planetary Science in the Decade 2013-2022 surveys the current state of knowledge of the solar system and recommends a suite of planetary science flagship missions for the decade 2013-2022 that could provide a steady stream of important new discoveries about the solar system. Research priorities defined in the report were selected through a rigorous review that included input from five expert panels. NASA's highest priority large mission should be the Mars Astrobiology Explorer Cacher (MAX-C), a mission to Mars that could help determine whether the planet ever supported life and could also help answer questions about its geologic and climatic history. Other projects should include a mission to Jupiter's icy moon Europa and its subsurface ocean, and the Uranus Orbiter and Probe mission to investigate that planet's interior structure, atmosphere, and composition. For medium-size missions, Vision and Voyages for Planetary Science in the Decade 2013-2022 recommends that NASA select two new missions to be included in its New Frontiers program, which explores the solar system with frequent, mid-size spacecraft missions. If NASA cannot stay within budget for any of these proposed flagship projects, it should focus on smaller, less expensive missions first. Vision and Voyages for Planetary Science in the Decade 2013-2022 suggests that the National Science Foundation expand its funding for existing laboratories and establish new facilities as needed. It also recommends that the program enlist the participation of international partners. This report is a vital resource for government agencies supporting space science, the planetary science community, and the public.

Design of Modern Heuristics Franz Rothlauf 2011-07-17 Most textbooks on modern heuristics provide the reader with detailed descriptions of the functionality of single examples like genetic algorithms, genetic programming, tabu search, simulated annealing, and others, but fail to teach the underlying concepts behind these different approaches. The author takes a different approach in this textbook by focusing on the users' needs and answering three fundamental questions: First, he tells us which problems modern heuristics are expected to perform well on, and which should be left to traditional optimization methods. Second, he teaches us to systematically design the "right" modern heuristic for a particular problem by providing a coherent view on design elements and working principles. Third, he shows how we can make use of problem-specific knowledge for the design of efficient and effective modern heuristics that solve not only small toy problems but also perform well on large real-world problems. This book is written in an easy-to-read style and it is aimed at students and practitioners in computer science, operations research

and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use. This book is written in an easy-to-read style and it is aimed at students and practitioners in computer science, operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use. This book is written in an easy-to-read style and it is aimed at students and practitioners in computer science, operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use.

The Coffin Dancer Jeffery Deaver 2019-10-01 SOON TO BE A MAJOR TELEVISION EVENT FROM NBC, STARRING RUSSELL HORNSBY, ARIELLE KEBBEL, AND MICHAEL IMPERIOLI. “Lincoln Rhyme is more relentless than ever” (People) and Jeffery Deaver delivers “supercharged tension” (USA TODAY) in this New York Times bestselling suspense masterwork. NYPD criminalist Lincoln Rhyme joins his beautiful protégée Amelia Sachs, in the hunt for the Coffin Dancer—an ingenious killer who changes his appearance even faster than he adds to his trail of victims. They have only one clue: the madman has a tattoo of the Grim Reaper waltzing with a woman in front of a coffin. Rhyme must rely on his wits and intuition to track the elusive murderer through New York City—knowing they have only forty-eight hours before the Coffin Dancer strikes again. This is a “heart-stopping” (Booklist) thriller from #1 international bestselling author Jeffery Deaver’s “simply outstanding” (San Jose Mercury News) Lincoln Rhyme series!

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.

GIS Landslide Hiromitsu Yamagishi 2017-05-16 This book presents landslide studies using the geographic information system (GIS), which includes not only the science of GIS and remote sensing, but also technical innovations, such as detailed light detection and ranging profiles, among others. To date most of the research on landslides has been found in journals on topography, geology, geo-technology, landslides, and GIS, and is limited to specific scientific aspects. Although journal articles on GIS using landslide studies are abundant, there are very few books on this topic. This book is designed to fill that gap and show how the latest GIS technology can contribute in terms of landslide studies. In a related development, the GIS Landslide Workshop was established in Japan 7 years ago in order to communicate and solve the scientific as well as technical problems of GIS analyses, such as how to use GIS software and its functions. The workshop has significantly contributed to progress in the field. Included among the chapters of this book are GIS using susceptibility mapping, analyses of deep-seated and shallow landslides, measuring and visualization of landslide distribution in relation to topography, geological facies and structures, rivers, land use, and infrastructures such as roads and streets. Filled with photographs, figures, and tables, this book is of great value to researchers in the fields of geography, geology, seismology, environment, remote sensing, and atmospheric research, as well as to students in these fields.

Intelligent Computing Theory De-Shuang Huang 2014-07-03 This book – in conjunction with the volumes LNAI 8589 and LNBI 8590 – constitutes the refereed

proceedings of the 10th International Conference on Intelligent Computing, ICIC 2014, held in Taiyuan, China, in August 2014. The 92 papers of this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections such as evolutionary computation and learning; swarm intelligence and optimization; machine learning; social and natural computing; neural networks; biometrics recognition; image processing; information security; virtual reality and human-computer interaction; knowledge discovery and data mining; signal processing; pattern recognition; biometric system and security for intelligent computing.

A Textbook Case (a Lincoln Rhyme story) Jeffery Deaver 2013-04-02 From Jeffery Deaver--the New York Times bestselling author of the upcoming Lincoln Rhyme novel THE KILL ROOM (on sale June 4, 2013)--comes an original short story featuring Rhyme. When a young woman is found brutally murdered in a parking garage, with a veritable mountain of potential evidence to sift through, it may be the most challenging case former NYPD detective Lincoln Rhyme has ever taken on.

Intelligent Multidimensional Data Clustering and Analysis Bhattacharyya, Siddhartha 2016-11-29 Data mining analysis techniques have undergone significant developments in recent years. This has led to improved uses throughout numerous functions and applications. Intelligent Multidimensional Data Clustering and Analysis is an authoritative reference source for the latest scholarly research on the advantages and challenges presented by the use of cluster analysis techniques. Highlighting theoretical foundations, computing paradigms, and real-world applications, this book is ideally designed for researchers, practitioners, upper-level students, and professionals interested in the latest developments in cluster analysis for large data sets.

Current Air Quality Issues Farhad Nejadkoorki 2015-10-21 Air pollution is thus far one of the key environmental issues in urban areas. Comprehensive air quality plans are required to manage air pollution for a particular area. Consequently, air should be continuously sampled, monitored, and modeled to examine different action plans. Reviews and research papers describe air pollution in five main contexts: Monitoring, Modeling, Risk Assessment, Health, and Indoor Air Pollution. The book is recommended to experts interested in health and air pollution issues.

Travis Nicole Edwards 2014-05-16 The oldest of the Walker brothers opens a unique resort—catering to fetishes and fantasies—in this sizzling ebook from New York Times and USA TODAY bestselling author Nicole Edwards. Travis Walker, the oldest of the seven Walker brothers, has been referred to as moody and mysterious, and for the most part, he would agree. Until recently, he spent his days helping his brothers run the family business. Now, he dedicates his time and energy to building a resort, Alluring Indulgence, that caters to fetishes and fantasies. And despite his attempt to work himself into the ground, Travis has never denied—at least not to himself—that something is missing. Ten years ago, Travis made the hardest decision of his life, breaking his own heart in the process. A decade later, he is learning that life has a strange way of turning things upside down before placing the pieces exactly where they were meant to go.

Intelligent Data analysis and its Applications, Volume II Jeng-Shyang Pan 2014-06-05 This volume presents the proceedings of the First Euro-China Conference on Intelligent Data Analysis and Applications (ECC 2014), which was hosted by Shenzhen Graduate School of Harbin Institute of Technology and was held in Shenzhen City on June 13-15, 2014. ECC 2014 was technically co-sponsored by Shenzhen Municipal People’s Government, IEEE Signal Processing Society, Machine Intelligence Research Labs, VSB-Technical University of Ostrava (Czech Republic), National Kaohsiung University of Applied Sciences (Taiwan), and Secure E-commerce Transactions (Shenzhen) Engineering Laboratory of Shenzhen Institute of

Standards and Technology.

Quasars and Black Holes 2013 "An introduction to quasars and black holes with information about their formation and characteristics. Includes diagrams, fun facts, a glossary, a resource list, and an index"--Provided by publisher.

Mapping Arctic Plant Functional Type Distributions in the Barrow Environmental Observatory Using WorldView-2 and LiDAR Datasets 2016 Multi-scale modeling of Arctic tundra vegetation requires characterization of the heterogeneous tundra landscape, which includes representation of distinct plant functional types (PFTs). We combined high-resolution multi-spectral remote sensing imagery from the WorldView-2 satellite with light detecting and ranging (LiDAR)-derived digital elevation models (DEM) to characterize the tundra landscape in and around the Barrow Environmental Observatory (BEO), a 3021-hectare research reserve located at the northern edge of the Alaskan Arctic Coastal Plain. Vegetation surveys were conducted during the growing season (June August) of 2012 from 48 1 m 1 m plots in the study region for estimating the percent cover of PFTs (i.e., sedges, grasses, forbs, shrubs, lichens and mosses). Statistical relationships were developed between spectral and topographic remote sensing characteristics and PFT fractions at the vegetation plots from field surveys. These derived relationships were employed to statistically upscale PFT fractions for our study region of 586 hectares at 0.25-m resolution around the sampling areas within the BEO, which was bounded by the LiDAR footprint. We employed an unsupervised clustering for stratification of this polygonal tundra landscape and used the clusters for segregating the field data for our upscaling algorithm over our study region, which was an inverse distance weighted (IDW) interpolation. We describe two versions of PFT distribution maps upscaled by IDW from WorldView-2 imagery and LiDAR: (1) a version computed from a single image in the middle of the growing season; and (2) a version computed from multiple images through the growing season. This approach allowed us to quantify the value of phenology for improving PFT distribution estimates. We also evaluated the representativeness of the field surveys by measuring the Euclidean distance between every pixel. This guided the ground-truthing campaign in late July of 2014 for addressing uncertainty based on representativeness analysis by selecting 24 1 m 1 m plots that were well and poorly represented. Ground-truthing indicated that including phenology had a better accuracy (R2=0.75, RMSE=9.94) than the single image upscaling (R2=0.63, RMSE=12.05) predicted from IDW. We also updated our upscaling approach to include the 24 ground-truthing plots, and a second ground-truthing campaign in late August of 2014 indicated a better accuracy for the phenology model (R2=0.61, RMSE=13.78) than only using the original 48 plots for the phenology model (R2=0.23, RMSE=17.49). After all, we believe that the cluster-based IDW upscaling approach and the representativeness analysis offer new insights for upscaling high-resolution data in fragmented landscapes. This analysis and approach provides PFT maps needed to inform land surface models in Arctic ecosystems.

Hierarchy, Markets and Networks Toby Greany 2018

Surveillance and Reconnaissance Imaging Systems Jon C. Leachtenauer 2001 Here's an up-to-date, comprehensive review of surveillance and reconnaissance (S & R) imaging system modeling and performance prediction. This new, one-of-a-kind resource helps you predict the information potential of new surveillance system designs, compare and select from alternative measures of information extraction, relate the performance of tactical acquisition sensors and surveillance sensors, and understand the relative importance of each element of the image chain on S& R system performance. It provides you with system descriptions and characteristics, S& R modeling history, and performance modeling details.

Travels with Curiosity Charles J. Byrne

2020-09-28 The Mars Curiosity Rover is the most sophisticated mobile laboratory ever deployed on a planet. For over seven years, scores of investigators have planned its daily route and activities, poring over the overwhelming images and data and revising our understanding of planetary surfaces, geology, and potential habitability. This book takes readers right down to the surface of Mars, chronicling Curiosity's physical and scientific journey across the planet's Earth-like, yet strikingly alien vistas. Through dozens of images and descriptive accounts of the surface, you will gain a deeper knowledge of the Martian landscape, from the floor of Gale Crater up to the cliffs of Mount Sharp. Presented at the end of each chapter are the results and revelations from the science team spearheading the mission. Like any cross-country road trip, the rover has hit some unexpected hitches along the way. The book describes the obstacles faced by the rover and its scientists over the years and the difficult decisions and careful experimentation it took to solve them. *Handbook of Simulation* Jerry Banks 1998-09-14 The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete-event simulation and its applications to major industries. The Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-event simulation. Comprehensive in scope and thorough in approach, the Handbook is the one reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations researcher involved in problem-solving should own, with an in-depth examination of: * Simulation methodology, from experimental design to data analysis and more * Recent advances, such as object-oriented simulation, on-line simulation, and parallel and distributed simulation * Applications across a full range of manufacturing and service industries * Guidelines for successful simulations and sound simulation project management * Simulation software and simulation industry vendors