# Pixl Club Predicted November 2014

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Intelligent Information and Database Systems Ngoc Thanh Nguyen 2017-03-23 The two-volume set LNAI 10191 and 10192 constitutes the refereed proceedings of the 9th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2017, held in Kanazawa, Japan, in April 2017. The total of 152 full papers accepted for publication in these proceedings was carefully reviewed and selected from 420 submissions. They were organized in topical sections named: Knowledge Engineering and Semantic Web; Social Networks and Recommender Systems; Text Processing and Information Retrieval; Intelligent Database Systems; Intelligent Information Systems; Decision Support and Control Systems; Machine Learning and Data Mining; Computer Vision Techniques; Advanced Data Mining Techniques and Applications; Intelligent and Context Systems; Multiple Model Approach to Machine Learning; Applications of Data Science; Artificial Intelligence Applications for E-services; Automated Reasoning and Proving Techniques with Applications in Intelligent Systems; Collective Intelligence for Service Innovation, Technology Opportunity, E-Learning and Fuzzy Intelligent Systems; Intelligent Computer Vision Systems and Applications; Intelligent Data Analysis, Applications and Technologies for Internet of Things; Intelligent Algorithms and Brain Functions; Intelligent Systems and Algorithms in Information Sciences; IT in Biomedicine; Intelligent Technologies in the Smart Cities in the 21st Century; Analysis of Image, Video and Motion Data in Life Sciences; Modern Applications of Machine Learning for Actionable Knowledge Extraction; Mathematics of Decision Sciences and Information Science; Scalable Data Analysis in Bioinformatics and Biomedical Informatics; and Technological Perspective of Agile Transformation in IT organizations.

**UAV Remote Sensing for Plant Traits and Stress** Alessandro Matese 2022-06-06

*Versatile Video Coding* Humberto Ochoa Dominguez 2022-09-01 Video is the main driver of bandwidth use, accounting for over 80 per cent of consumer Internet traffic. Video compression is a critical component of many of the available multimedia applications, it is necessary for storage or transmission of digital video over today's band-limited networks. The majority of this video is coded using international standards developed in collaboration with ITU-T Study Group and MPEG. The MPEG family of video coding standards begun on the early 1990s with MPEG-1, developed for video and audio storage on CD-ROMs, with support for progressive video. MPEG-2 was standardized in 1995 for applications of video on DVD, standard and high definition television, with support for interlaced and progressive video. MPEG-4 part 2, also known as MPEG-2 video, was standardized in 1999 for applications of low- bit rate multimedia on mobile platforms and the Internet, with the support of object-based or content based coding by modeling the scene as background and foreground. Since MPEG-1, the main video coding standards were based on the so-called macroblocks. However, research groups continued the work beyond the traditional video coding architectures and found that macroblocks could limit the performance of the compression when using high-resolution video. Therefore, in 2013 the high efficiency video coding (HEVC) also known and H.265, was released, with a structure similar to H.264/AVC but using coding units with more flexible partitions than the traditional macroblocks. HEVC has greater flexibility in prediction modes and transform block sizes, also it has a more sophisticated interpolation and de blocking filters. In 2006 the VC-1 was released. VC-1 is a video codec implemented by Microsoft and the Microsoft Windows Media Video (VMW) 9 and standardized by the Society of Motion Picture and Television Engineers (SMPTE). In 2017 the Joint Video Experts Team (JVET) released a call for proposals for a new video coding standard initially called Beyond the HEVC, Future Video Coding (FVC) or known as Versatile Video Coding (VVC). VVC is being built on top of HEVC for application on Standard Dynamic Range (SDR), High Dynamic Range (HDR) and 360° Video. The VVC is planned to be finalized by 2020. This book presents the new VVC, and updates on the HEVC. The book discusses the advances in lossless coding and covers the topic of screen content coding. Technical topics discussed include: Beyond the High Efficiency Video CodingHigh Efficiency Video Coding encoderScreen contentLossless and visually lossless coding algorithmsFast coding algorithmsVisual quality assessmentOther screen content coding algorithmsOverview of JPEG Series

**The R Book** Michael J. Crawley 2007-06-13 The high-level language of R is recognized as one of the mostpowerful and flexible statistical software environments, and israpidly becoming the standard setting for quantitative analysis,statistics and graphics. R provides free access to unrivalledcoverage and cutting-edge applications, enabling the user to applynumerous statistical methods ranging from simple regression to timeseries or multivariate analysis. Building on the success of the author's bestsellingStatistics: An Introduction using R, The R Book ispacked with worked examples, providing an all inclusive guide to R,ideal for novice and more accomplished users alike. The bookassumes no background in statistics or computing and introduces theadvantages of the R environment, detailing its applications in awide range of disciplines. Provides the first comprehensive reference manual for the Rlanguage, including practical guidance and full coverage of thegraphics facilities. Introduces all the statistical models covered by R, beginningwith simple classical tests such as chi-square and t-test. Proceeds to examine more advance methods, from regression andanalysis of variance, through to generalized linear models,generalized mixed models, time series, spatial statistics,multivariate statistics and much more. The R Book is aimed at undergraduates, postgraduates andprofessionals in science, engineering and medicine. It is alsoideal for students and professionals in statistics, economics,geography and the social sciences.

**Deep learning techniques and their applications to the healthy and disordered brain - during development through adulthood and beyond** Amir Shmuel 2023-02-07

**Conference Proceedings. The Future of Education** Pixel 2017

**Tackling Climate Change Through Livestock** Food and Agriculture Organization of the United Nations 2013 Greenhouse gas emissions by the livestock sector could be cut by as much as 30 percent through the wider use of existing best practices and technologies. FAO conducted a detailed analysis of GHG emissions at multiple stages of various livestock supply chains, including the production and transport of animal feed, on-farm energy use, emissions from animal digestion and manure decay, as well as the post-slaughter transport, refrigeration and packaging of animal products. This report represents the most comprehensive estimate made to-date of livestocks contribution to global warming as well as the sectors potential to help tackle the problem. This publication is aimed

at professionals in food and agriculture as well as policy makers.

Exploring the Solar System Peter Bond 2020-03-03 An Exciting and Authoritative Account of the Second Golden Age of Solar System Exploration Award-winning author Peter Bond provides an up-to-date, in-depth account of the sun and its family in the 2nd edition of Exploring the Solar System. This new edition brings together the discoveries and advances in scientific understanding made during the last 60 years of solar and planetary exploration, using research conducted by the world's leading geoscientists, astronomers, and physicists. Exploring the Solar System, 2nd Edition is an ideal introduction for non-science undergraduates and anyone interested in learning about our small corner of the Milky Way galaxy.

**The Good Drone** Austin Choi-Fitzpatrick 2020-07-28 How small-scale drones, satellites, kites, and balloons are used by social movements for the greater good. Drones are famous for doing bad things: weaponized, they implement remote-control war; used for surveillance, they threaten civil liberties and violate privacy. In The Good Drone, Austin Choi-Fitzpatrick examines a different range of uses: the deployment of drones for the greater good. Choi-Fitzpatrick analyzes the way small-scale drones--as well as satellites, kites, and balloons--are used for a great many things, including documenting human rights abuses, estimating demonstration crowd size, supporting anti-poaching advocacy, and advancing climate change research. In fact, he finds, small drones are used disproportionately for good; nonviolent prosocial uses predominate.

*Crowdsourcing* Jeff Howe 2009-09-15 Why does Procter & Gamble repeatedly call on enthusiastic amateurs to solve scientific and technical challenges? How can companies as diverse as iStockphoto and Threadless employ just a handful of people, yet generate millions of dollars in revenue every year? "Crowdsourcing" is how the power of the many can be leveraged to accomplish feats that were once the responsibility of a specialized few. Jeff Howe reveals that the crowd is more than wise–it's talented, creative, and stunningly productive. It's also a perfect meritocracy, where age, gender, race, education, and job history no longer matter; the quality of the work is all that counts. If you can perform the service, design the product, or solve the problem, you've got the job. But crowdsourcing has also triggered a dramatic shift in the way work is organized, talent is employed, research is conducted, and products are made and marketed. As the crowd comes to supplant traditional forms of labor, pain and disruption are inevitable, and Howe delves into both the positive and negative consequences of this intriguing phenomenon. Through extensive reporting from the front lines of this workplace revolution, he employs a brilliant array of stories to look at the economic, cultural, business, and political implications of crowdsourcing.

*Brain-inspired Machine Learning and Computation for Brain-Behavior Analysis* Rong Chen 2021-04-16

*Collaborative Research to Address Changes in the Climate, Hydrology and Cryosphere of High Mountain Asia* Anthony Arendt 2021-01-06

**Empirical Research at a Distance: New Methods for Developmental Science** Dima Amso 2022-06-15

**Exploring Mechanisms of Cardiac Rhythm Disturbances Using Novel Computational Methods: Prediction, Classification, and Therapy** Xin Li 2023-03-16

**DSCOVR EPIC/NISTAR: 5 years of observing earth from the first lagrangian point** Alexei Lyapustin 2022-12-12

*Power and the Vote* Brian Min 2015-09-17 Shows that the provision of seemingly universal public goods is shaped by electoral priorities.

*Turn Down the Heat* A Report for the World Bank by the Potsdam Institute for Climate Impact Research and Analytics. 2013-06-19 This report focuses on the risks of climate change to development in Sub-Saharan Africa, South East Asia and South Asia. Building on the 2012 report, Turn Down the Heat: Why a 4°C Warmer World Must be Avoided, this new scientific analysis examines the likely impacts of present day, 2°C and 4°C warming on agricultural production, water resources, and coastal vulnerability. It finds many significant climate and development impacts are already being felt in some regions, and that as warming increases from present day (0.8°C) to 2°C and 4°C, multiple threats of increasing extreme heat waves, sea-level rise, more severe storms, droughts and floods are expected to have further severe negative implications for the poorest and most vulnerable. The report finds that agricultural yields will be affected across the three regions, with repercussions for food security, economic growth, and poverty reduction. In addition, urban areas have been identified as new clusters of vulnerability with urban dwellers, particularly the urban poor, facing significant vulnerability to climate change. In Sub-Saharan Africa, under 3°C global warming, savannas are projected to decrease from their current levels to approximately one-seventh of total land area and threaten pastoral livelihoods. Under 4°C warming, total hyper-arid and arid areas are projected to expand by 10 percent. In South East Asia, under 2°C warming, heat extremes that are virtually absent today would cover nearly 60-70 percent of total land area in northern-hemisphere summer, adversely impacting ecosystems. Under 4°C warming, rural populations would face mounting pressures from sea-level rise, increased tropical cyclone intensity, storm surges, saltwater intrusions, and loss of marine ecosystem services. In South Asia, the potential sudden onset of disturbances to the monsoon system and rising peak temperatures would put water and food resources at severe risk. Well before 2°C warming occurs, substantial reductions in the frequency of low snow years is projected to cause substantial reductions in dry season flow, threatening agriculture. Many of the worst climate impacts could still be avoided by holding warming below 2°C, but the window for action is closing rapidly. Urgent action is also needed to build resilience to a rapidly warming world that will pose significant risks to agriculture, water resources, coastal infrastructure, and human health.

**Biomedical Texture Analysis** Adrien Depeursinge 2017-08-25 Biomedical Texture Analysis: Fundamentals, Applications, Tools and Challenges describes the fundamentals and applications of biomedical texture analysis (BTA) for precision medicine. It defines what biomedical textures (BTs) are and why they require specific image analysis design approaches when compared to more classical computer vision applications. The fundamental properties of BTs are given to highlight key aspects of texture operator design, providing a foundation for biomedical engineers to build the next generation of biomedical texture operators. Examples of novel texture operators are described and their ability to characterize BTs are demonstrated in a variety of applications in radiology and digital histopathology. Recent open-source software frameworks which enable the extraction, exploration and analysis of 2D and 3D texture-based imaging biomarkers are also presented. This book provides a thorough background on texture analysis for graduate students and biomedical engineers from both industry and academia who have basic image processing knowledge. Medical doctors and biologists with no background in image processing will also find available methods and software tools for analyzing textures in medical images. Defines biomedical texture precisely and describe how it is different from general texture information considered in computer vision Defines the general problem to translate 2D and 3D texture patterns from biomedical images to visually and biologically relevant measurements Describes, using intuitive concepts, how the most popular biomedical texture analysis approaches (e.g., gray-level matrices, fractals, wavelets, deep convolutional neural networks) work, what they have in common, and how they are different Identifies the strengths, weaknesses, and current challenges of existing methods including both handcrafted and learned representations, as well as deep learning. The goal is to establish foundations for building the next generation of biomedical texture operators Showcases applications where biomedical texture analysis has succeeded and failed Provides details on existing, freely available texture analysis software, helping experts in medicine or biology develop and test precise research hypothesis

**EEG-Based Brain-Computer Interfaces** Dipali Bansal 2019-03-14 EEG-Based Brain-Computer Interface: Cognitive Analysis and Control Applications provides a technical approach to using brain signals for control applications, along with the EEG-related advances in BCI. The research and techniques in this book discuss time and frequency domain analysis on deliberate eye-blinking data as the basis for EEG-triggering control applications. In addition, the book provides experimental scenarios and features algorithms for acquiring real-time EEG signals using

commercially available units that interface with MATLAB software for acquisition and control. Details techniques for multiple types of analysis (including ERP, scalp map, sub-band power and independent component) to acquire data from deliberate eye-blinking Demonstrates how to use EEGs to develop more intuitive BCIs in real-time scenarios Includes algorithms and scenarios that interface with MATLAB software for interactive use

**Rosetta: The Remarkable Story of Europe's Comet Explorer** Peter Bond 2020-12-17 In 2014, Rosetta became the first mission to orbit a comet and to deploy a lander onto its surface. This is the story of ESA's pioneering comet explorer, following the mission from its initial inception to its historic touchdown. Read along as the Rosetta orbiter and its lander, Philae, evolve over the years, overcoming early mission hurdles before embarking on their one-way, decade-long voyage to a comet. See how the saga then culminates with Rosetta and Philae at last unveiling their icy target and achieving an unprecedented touchdown on its surface. Award-winning space writer Peter Bond takes us behind the scenes of this historic endeavor, sharing insights from the international team of scientists and engineers who made the mission possible, describing the remarkable technology that they created, and delving into the treasure trove of scientific discoveries that followed. Recounting in vivid detail the inner workings of Rosetta, this book is a celebration of the mission that has left a lasting impact on planetary science and space exploration.

**Advancing Earth Surface Representation via Enhanced Use of Earth Observations in Monitoring and Forecasting Applications** Gianpaolo Balsamo 2019-08-23 The representation of the Earth's surface in global monitoring and forecasting applications is moving towards capturing more of the relevant processes, while maintaining elevated computational efficiency and therefore a moderate complexity. These schemes are developed and continuously improved thanks to well instrumented field-sites that can observe coupled processes occurring at the surface–atmosphere interface (e.g., forest, grassland, cropland areas and diverse climate zones). Approaching global kilometer-scale resolutions, in situ observations alone cannot fulfil the modelling needs, and the use of satellite observation becomes essential to guide modelling innovation and to calibrate and validate new parameterization schemes that can support data assimilation applications. In this book, we review some of the recent contributions, highlighting how satellite data are used to inform Earth surface model development (vegetation state and seasonality, soil moisture conditions, surface temperature and turbulent fluxes, land-use change detection, agricultural indicators and irrigation) when moving towards global km-scale resolutions.

**Digital Wars** Charles Arthur 2014-05-03 The first time that Apple, Google and Microsoft found themselves sharing the same digital space was 1998. They were radically different companies and they would subsequently fight a series of pitched battles for control of different parts of the digital landscape. They could not know of the battles to come. But they would be world-changing. This new edition of Digital Wars looks at each of these battles in turn. Accessible and comprehensive, it analyses the very different cultures of the three companies and assesses exactly who are the victors on each front. Thoroughly updated to include information on the latest developments and rising competitors Samsung, it also include a completely new chapter on how China moved from being the assembly plant for music players and smartphones, to becoming the world's biggest smartphone business.

*Creativity, Inc.* Ed Catmull 2014-04-08 From a co-founder of Pixar Animation Studios—the Academy Award–winning studio behind Coco, Inside Out, and Toy Story—comes an incisive book about creativity in business and leadership for readers of Daniel Pink, Tom Peters, and Chip and Dan Heath. NEW YORK TIMES BESTSELLER | NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The Huffington Post • Financial Times • Success • Inc. • Library Journal Creativity, Inc. is a manual for anyone who strives for originality and the first-ever, all-access trip into the nerve center of Pixar Animation—into the meetings, postmortems, and "Braintrust" sessions where some of the most successful films in history are made. It is, at heart, a book about creativity—but it is also, as Pixar co-founder and president Ed Catmull writes, "an expression of the ideas that I believe make the best in us possible." For nearly twenty years, Pixar has dominated the world of animation, producing such beloved films as the Toy Story trilogy, Monsters, Inc., Finding Nemo, The Incredibles, Up, WALL-E, and Inside Out, which have gone on to set box-office records and garner thirty Academy Awards. The joyousness of the storytelling, the inventive plots, the emotional authenticity: In some ways, Pixar movies are an object lesson in what creativity really is. Here, in this book, Catmull reveals the ideals and techniques that have made Pixar so widely admired—and so profitable. As a young man, Ed Catmull had a dream: to make the first computer-animated movie. He nurtured that dream as a Ph.D. student at the University of Utah, where many computer science pioneers got their start, and then forged a partnership with George Lucas that led, indirectly, to his co-founding Pixar in 1986. Nine years later, Toy Story was released, changing animation forever. The essential ingredient in that movie's success—and in the thirteen movies that followed—was the unique environment that Catmull and his colleagues built at Pixar, based on leadership and management philosophies that protect the creative process and defy convention, such as: • Give a good idea to a mediocre team, and they will screw it up. But give a mediocre idea to a great team, and they will either fix it or come up with something better. • If you don't strive to uncover what is unseen and understand its nature, you will be ill prepared to lead. • It's not the manager's job to prevent risks. It's the manager's job to make it safe for others to take them. • The cost of preventing errors is often far greater than the cost of fixing them. • A company's communication structure should not mirror its organizational structure. Everybody should be able to talk to anybody.

*Tesla's Attic* Neal Shusterman 2014-02-11 After their home burns down, fourteen-year-old Nick, his younger brother, and their father move into a ramshackle Victorian house they've inherited. When Nick opens the door to his attic room, he's hit in the head by a toaster. That's just the beginning of his weird experiences with the old junk stored up there. After getting rid of the odd antiques in a garage sale, Nick befriends some local kids-Mitch, Caitlin, and Vincent-and they discover that all of the objects have extraordinary properties. What's more, Nick figures out that the attic is a strange magnetic vortex, which attracts all sorts of trouble. It's as if the attic itself has an intelligence . . . and a purpose. Ultimately Nick learns that the genius Nikola Tesla placed the items-his last inventions-in the attic as part of a larger plan that he mathematically predicted. Nick and his new friends must retrieve everything that was sold at the garage sale and keep it safe. But the task is fraught with peril-in addition to the dangers inherent in Tesla's mysterious and powerful creations, a secret society of physicists, the Accelerati, is determined to stop Nick and alter destiny to achieve its own devious ends. It's a lot for a guy to handle, especially when he'd much rather fly under the radar as the new kid in town. Fans of intrigue, action, humor, and nonstop surprises are guaranteed a read unlike any other in Tesla's Attic, Book One of the Accelerati Trilogy.

Non-Destructive Methods for Monitoring Plant Health Nam-Hai Chua 2023-03-02

*Understanding Machine Learning* Shai Shalev-Shwartz 2014-05-19 Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Computer Vision - ACCV 2014 Workshops C.V. Jawahar 2015-04-10 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 Technologies and Techniques for Remote Sensing of Coastal and Inland Waters* Wesley Moses 2022-11-08

**Applications in Electronics Pervading Industry, Environment and Society** Sergio Saponara 2020-03-20 This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains, from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2019 ApplePies Conference, held in Pisa, Italy in September 2019, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.

**North American Monarch Butterfly Ecology and Conservation** Jay E. Diffendorfer 2020-10-23 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

High Efficiency Video Coding (HEVC) Vivienne Sze 2014-08-23 This book provides developers, engineers, researchers and students with detailed knowledge about the High Efficiency Video Coding (HEVC) standard. HEVC is the successor to the widely successful H.264/AVC video compression standard, and it provides around twice as much compression as H.264/AVC for the same level of quality. The applications for HEVC will not only cover the space of the well-known current uses and capabilities of digital video – they will also include the deployment of new services and the delivery of enhanced video quality, such as ultra-high-definition television (UHDTV) and video with higher dynamic range, wider range of representable color, and greater representation precision than what is typically found today. HEVC is the next major generation of video coding design – a flexible, reliable and robust solution that will support the next decade of video applications and ease the burden of video on world-wide network traffic. This book provides a detailed explanation of the various parts of the standard, insight into how it was developed, and in-depth discussion of algorithms and architectures for its implementation.

Databases in Networked Information Systems Wanming Chu 2015-03-04 This book constitutes the refereed proceedings of the 10th International Workshop on Databases in Networked Information Systems, DNIS 2015, held in Aizu-Wakamatsu, Japan, March 2015. The 14 revised full papers presented together with 7 invited papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on big data analysis, information and knowledge management, business data analytics and visualization, networked information resources, and business data analytics in astronomy and sciences.

**Remote Sensing of Hydrometeorological Hazards** George P. Petropoulos 2017-11-02 Extreme weather and climate change aggravate the frequency and magnitude of disasters. Facing atypical and more severe events, existing early warning and response systems become inadequate both in scale and scope. Earth Observation (EO) provides today information at global, regional and even basin scales related to agrometeorological hazards. This book focuses on drought, flood, frost, landslides, and storms/cyclones and covers different applications of EO data used from prediction to mapping damages as well as recovery for each category. It explains the added value of EO technology in comparison with conventional techniques applied today through many case studies.

*The Computing Universe* Anthony J. G. Hey 2014-12-08 This exciting and accessible book takes us on a journey from the early days of computers to the cutting-edge research of the present day that will shape computing in the coming decades. It introduces a fascinating cast of dreamers and inventors who brought these great technological developments into every corner of the modern world, and will open up the universe of computing to anyone who has ever wondered where his or her smartphone came from.

Arnie, the Doughnut Laurie Keller 2018-12-18 This ebook includes audio narration. A deliciously imaginative story about friendship—from the author / illustrator of The Scrambled States of America. Arnie was fascinated as he watched the customers stream into the bakery. One by one, doughnuts were chosen, placed in paper bags, and whisked away with their new owners. Some went by the dozen in giant boxes. "Good-bye!" Arnie yelled to each doughnut. "Have a good trip!" "This is so exciting!" Arnie beamed. "I wonder who will choose ME?" At first glance, Arnie looks like an average doughnut—round, cakey, with a hole in the middle, iced and sprinkled. He was made by one of the best bakeries in town, and admittedly his sprinkles are candy-colored. Still, a doughnut is just a doughnut, right? WRONG! Not if Arnie has anything to say about it. And, for a doughnut, he sure seems to have an awful lot to say. Can Arnie change the fate of all doughnuts—or at least have a hand in his own future? Well, you'll just have to read this funny story and find out for yourself. This title has Common Core connections Arnie, the Doughnut is a 2004 Bank Street - Best Children's Book of the Year.

*Advances in Multimedia Information Processing - PCM 2014* Wei Tsang Ooi 2014-10-20 This book constitutes the refereed proceedings of the 15th Pacific Rim Conference on Multimedia, PCM 2014, held in Kuching, Malaysia, in December 2014. The 35 revised full papers and 6 short papers presented were carefully reviewed and selected from 84 submissions. The papers cover a wide range of topics in the area of multimedia content analysis, multimedia signal processing and communications, and multimedia applications and services. They have been organized into topical sections on video coding, annotation, image and photo, applications, people, image analysis and processing under extra help, nearest neighbor, neural networks, and audio. Also included are sections with best papers and posters and demonstrations.

**In Silico Dreams** Brian S. Hilbush 2021-07-28 Learn how AI and data science are upending the worlds of biology and medicine In Silico Dreams: How Artificial Intelligence and Biotechnology Will Create the Medicines of the Future delivers an illuminating and fresh perspective on the convergence of two powerful technologies: AI and biotech. Accomplished genomics expert, executive, and author Brian Hilbush offers readers a brilliant exploration of the most current work of pioneering tech giants and biotechnology startups who have already started disrupting healthcare. The book provides an in-depth understanding of the sources of innovation that are driving the shift in the pharmaceutical industry away from serendipitous therapeutic discovery and toward engineered medicines and curative therapies. In this fascinating book, you'll discover: An overview of the rise of data science methods and the paradigm shift in biology that led to the in silico revolution An outline of the fundamental breakthroughs in AI and deep learning and their applications across medicine A compelling argument for the notion that AI and biotechnology tools will rapidly accelerate the development of therapeutics A summary of innovative breakthroughs in biotechnology with a focus on gene editing and cell reprogramming technologies for therapeutic

development A guide to the startup landscape in AI in medicine, revealing where investments are poised to shape the innovation base for the pharmaceutical industry Perfect for anyone with an interest in scientific topics and technology, In Silico Dreams also belongs on the bookshelves of decision-makers in a wide range of industries, including healthcare, technology, venture capital, and government.

*Handbook of Research on Technological Developments for Cultural Heritage and eTourism Applications* Rodrigues, João M. F. 2017-11-30 Tourism is one of the most rapidly evolving industries of the 21st century. The integration of technological advancements plays a crucial role in the ability for many countries, all over the world, to attract visitors and maintain a distinct edge in a highly competitive market. The Handbook of Research on Technological Developments for Cultural Heritage and eTourism Applications is a pivotal reference source for the latest research findings on the utilization of information and communication technologies in tourism. Featuring extensive coverage on relevant areas such as smart tourism, user interfaces, and social media, this publication is an ideal resource for policy makers, academicians, researchers, advanced-level students, and technology developers seeking current research on new trends in ICT systems and application and tourism.

CCTV Vlado Damjanovski 2013-09-23 The new edition of CCTV, a high-level professional reference, is expanded to cover all video compression techniques used in the ever-increasing assortment of digital video recorders (DVRs) available on the market today. In addition to demystifying DVR technology, the third edition also clarifies the technology of data networking and explains various compression techniques. Along with all this, the book retains the particulars that made the previous editions convenient and valuable, including details of CCD cameras, lenses, coaxial cables, fiber-optics, and system design. Updated to address digital techniques, networking, and the Internet in closed-circuit television Includes brand new sections on CCTV networking, digital video recorders (DVRs), various video compression techniques, and understanding pixels and digital image quality Fully illustrated with dozens of photographs, tables, checklists, charts, diagrams, and instructions

**The Earth Observer** 2013