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Learning to Analyze what is Beyond the Visible Spectrum Amanda Berg 2019-11-13 Thermal cameras have historically been of interest mainly for military applications. Increasing image quality and resolution combined with decreasing camera price and size during recent years have, however, opened up new application areas. They are now widely used for civilian applications, e.g., within industry, to search for missing persons, in automotive safety, as well as for medical applications. Thermal cameras are useful as soon as there exists a measurable temperature difference. Compared to cameras operating in the visual spectrum, they are advantageous due to their ability to see in total darkness, robustness to illumination variations, and less intrusion on privacy. This thesis addresses the problem of automatic image analysis in thermal infrared images with a focus on machine learning methods. The main purpose of this thesis is to study the variations of processing required due to the thermal infrared data modality. In particular, three different problems are addressed: visual object tracking, anomaly detection, and modality transfer. All these are research areas that have been and currently are subject to extensive research. Furthermore, they are all highly relevant for a number of different real-world applications. The first addressed problem is visual object tracking, a problem for which no prior information other than the initial location of the object is given. The main contribution concerns benchmarking of short-term single-object (STSO) visual object tracking methods in thermal infrared images. The proposed dataset, LTIR (Linköping Thermal Infrared), was integrated in the VOT-TIR2015 challenge, introducing the first ever organized challenge on STSO tracking in thermal infrared video. Another contribution also related to benchmarking is a novel, recursive, method for semi-automatic annotation of multi-modal video sequences. Based on only a few initial annotations, a video object segmentation (VOS) method proposes segmentations for all remaining frames and difficult parts in need for additional manual annotation are automatically detected. The third contribution to the problem of visual object tracking is a template tracking method based on a non-parametric probability density model of the object's thermal radiation using channel representations. The second addressed problem is anomaly detection, i.e., detection of rare objects or events. The main contribution is a method for truly unsupervised anomaly detection based on Generative Adversarial Networks (GANs). The method employs joint training of the generator and an observation to latent space encoder, enabling stratification of the latent space and, thus, also separation of normal and anomalous samples. The second contribution is the previously unaddressed problem of obstacle detection in front of moving trains using a train-mounted thermal camera. Adaptive correlation filters are updated continuously and missed detections of background are treated as detections of anomalies, or obstacles. The third contribution to the problem of anomaly detection is a method for characterization and classification of automatically detected district heat leakages for the purpose of false alarm reduction. Finally, the thesis addresses the problem of modality transfer between thermal infrared and visual spectrum images, a previously unaddressed problem. The contribution is a method based on Convolutional Neural Networks (CNNs), enabling perceptually realistic transformations of thermal infrared to visual images. By careful design of the loss function the method becomes robust to image pair misalignments. The method exploits the lower acuity for color differences than for luminance possessed by the human visual system, separating the loss into a luminance and a chrominance part.

Journal Council for Exceptional Children 1969

Differential Equations and Dynamical Systems Lawrence Perko 2012-12-06 Mathematics is playing an ever more important role in the physical and biological sciences, provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics. This renewal of interest, both in research and teaching, has led to the establishment of the series: Texts in Applied Mathematics (TAM). The development of new courses is a natural consequence of a high level of excitement over the research frontier as newer techniques, such as numerical and symbolic computer systems, dynamical systems, and chaos, mix with and reinforce the traditional methods of applied mathematics. Thus, the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses. TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses, and will complement the Applied Mathematical Sciences (AMS) series, which will focus on advanced textbooks and research level monographs. Preface to the Second Edition This book covers those topics necessary for a clear understanding of the qualitative theory of ordinary differential equations and the concept of a dynamical system. It is written for advanced undergraduates and for beginning graduate students. It begins with a study of linear systems of ordinary differential equations, a topic already familiar to the student who has completed a first course in differential equations.

Nanostructured Materials for Energy Related Applications Saravanan Rajendran 2019-02-11 This book describes the role and fundamental aspects of the diverse ranges of nanostructured materials for energy applications in a comprehensive manner. Advanced nanomaterial is an important and interdisciplinary field which includes science and technology. This work thus gives the reader an in depth analysis focussed on particular nanomaterials and systems applicable for technologies such as clean fuel, hydrogen generation, absorption and storage, supercapacitors, battery applications and more. Furthermore, it not only aims to exploit certain nanomaterials for technology transfer, but also exploits a wide knowledge on avenues such as biomass-derived nanomaterials, carbon dioxide conversions into renewable fuel chemicals using nanomaterials. These are the areas with lacunae that demand more research and application.

Unriddling the Exeter Riddles Patrick J. Murphy 2011 "Examines the Old English riddles found in the tenth-century Exeter Book manuscript, with particular attention to their relationship to larger traditions of literary and traditional riddling"--Provided by publisher.

Critical and Exegetical Commentary on the New Testament Heinrich August Wilhelm Meyer 1885

Commentary on the New Testament: Philippians, Colossians, Philemon, 1-2 Thessalonians Heinrich August Wilhelm Meyer 1889

Three Philosophical Poets George Santayana 1970

Critical and Exegetical Hand-book to the Epistles to the Philippians and Colossians, and to Philemon Heinrich August Wilhelm Meyer 1889

The Medical News 1886

Virgil, Aeneid 11 Nicholas Horsfall 2017-09-18 This is the first comprehensive commentary on Aeneid 11. The commentary treats fully matters of linguistic and textual interpretation, metre and prosody, grammar, lexicon and idiom, of Roman behaviour, social and ritual, as well as Virgil's sources and the literary tradition. New critical approaches and developments in Virgilian studies have been taken into account with economy and fairness. The Latin text is presented with a facing English translation. The commentary is followed by an appendix on Pentheseilea and the Epic Cycle and a second appendix which discusses the weaknesses of Aeneid 11. The book concludes with English and Latin indices. In approach and learning, this commentary continues Nicholas Horsfall's impressive work as a commentator and will advance our understanding of the Aeneid and the poet Virgil."

Allochemicals: Biological Control of Plant Pathogens and Diseases Inderjit 2006-05-25 Biological control of plant diseases and plant pathogens is of great significance in forestry and agriculture. This book, the first of its kind, is organized around the indication that allochemicals can be employed for biological control of plant pathogens and plant diseases. This volume focuses on discovery and development of natural product based fungicides for agriculture, direct use of allochemicals, and application of allelopathy in pest management.

Studies in the History of Tax Law, Volume 8 Peter Harris 2017-08-10 These are the papers from the 8th Cambridge Tax Law History Conference held in July 2016. In the usual manner, these papers have been selected from an oversupply of proposals for their interest and relevance, and scrutinised and edited to the highest standard for inclusion in this prestigious series. The papers fall within five basic themes: Two papers focus on tax theory; one on John Locke and another on the impact of English tax literature in the Netherlands in the nineteenth century. Five deal with the history of UK specific interpretational issues in varying contexts – an ancient exemption, insurance companies, special contribution, the profits tax GAAR and capital gains tax. Two more papers consider aspects of HMRC operations. Another three focus on facets of international taxation, including treaties between the UK and European countries, treaties between the UK and developing countries and the UN model tax treaties of 1928. The book also incorporates a range of interesting topics from other countries, including the introduction of income tax in Ireland and in Chile, post-war income taxation in Australia, early interpretation of 'income' in New Zealand and a discussion of some early indirect taxes in India and China.

Pedagogy of the Oppressed Paulo Freire 1972

The Wabi-Sabi House Robyn Griggs Lawrence 2004 A inspirational, illustrated design handbook draws on the ancient Japanese art of imperfect beauty, or wabi-sabi, and the aesthetic principles of Zen Buddhism to explain how to create unique home spaces that incorporate salvage materials, use artisan wares, and remove clutter to present peaceful, intimate rooms. 20,000 first printing.

Maritime Law in Motion Proshanto K. Mukherjee 2020-01-23 This book provides valuable insights into various contemporary issues in public and private maritime law, including interdisciplinary aspects. The public law topics addressed include public international law and law of the sea, while a variety of private law topics are explored, e.g. commercial maritime law, conflict of laws, and new developments in the application of advanced technologies to maritime law issues. In addition, the book highlights current and topical discussions at international maritime forums such as the International Maritime Organization on regulatory and private law matters within the domain of marine environmental law, the law respecting seafarers' affairs and maritime pedagogics, maritime security, comparative law in the maritime field, trade law, recent case law analysis, taxation law in the maritime context, maritime arbitration, carriage of passengers, port law, and limitation of liability.

Floor Covering Weekly 2008

Izvestiya Akademii nauk SSSR 1976

Patent Litigation Strategies Handbook Barry L. Grossman 2010-01-01 "Section of Intellectual Property Law, American Bar Association."

Plant Growth Everlon Rigobelo 2016-11-16 Over the last few decades, the prevalence of studies about plant growth has dramatically grown in most regions of the world. Many aspects have been investigated related to this phenomenon. If we can gain understanding of how plants grow, then we may be able to manipulate it to reduce both chemical fertilizer use and its environmental impact without decreasing the yield. This book provides information about the use of bio-agents, plant health, plant pathogen, property of melanin, and the influence of rootstock and root growth. We hope this information will be useful for all the people who work with this hot topic.

Allelopathy Manuel J. Reigosa 2006-02-28 There are many good books in the market dealing with the subject of allelopathy. When we designed the outline of this new book, we thought that it should include as many different points of view as possible, although in an integrated general scheme. Allelopathy can be viewed from different of perspectives, ranging from the molecular to the ecosystem level, and including molecular biology, plant biochemistry, plant physiology, plant ecophysiology and ecology, with information coming also from the organic chemistry, soil sciences, microbiology and many other scientific disciplines. This book was designed to include a complete perspective of allelopathic process. The book is divided into seven major sections. The first chapter explores the international development of allelopathy as a science and next section deals with methodological aspects and it explores potential limitations of actual research. Third section is devoted to physiological aspects of allelopathy. Different specialists wrote about photosynthesis, cell cycle, detoxification processes, abiotic and biotic stress, plant secondary metabolites and respiration related to allelopathy. Chapters 13 through 16 are collectively devoted to various aspects of plant ecophysiology on a variety of levels: microorganisms, soil system and weed germination. Fundamental ecology approaches using both experimental observations and theoretical analysis of allelopathy are described in chapters 16 and 17. Those chapters deal with the possible evolutionary forces that have shaped particular strategies. In the section named "allelopathy in different environments", authors primarily center on marine, aquatic, forest and agro

ecosystems. Last section includes chapters addressing application of the knowledge of allelopathy.

The Art of Teaching and Studying Languages François Guoin 1892

New Monte Rosa Hut SAC 2010 The new alpine 'hut' on Monte Rosa, at an altitude of 2883 meters (9458 feet) near Zermatt was opened in September 2009. Featuring discussions, essays on special topics, photographs and plans, this volume documents the building's genesis and planning and the construction of what is a milestone in high alpine architecture. **Cambridge Vocabulary for IELTS Advanced Band 6.5+ with Answers and Audio CD** Pauline Cullen 2012-01-26 All the vocabulary you need for IELTS success! Cambridge Vocabulary for IELTS Advanced focuses on moving students to 6.5 and beyond by working on vocabulary-building strategies necessary for success at advanced levels. It includes useful tips on how to approach IELTS exam tasks and covers especially tricky areas such as paraphrase and collocation. It is informed by the Cambridge English Corpus to ensure that the vocabulary is presented in genuine contexts and includes real learner errors. The Audio CD contains the listening and pronunciation exercises from each unit. The material is suitable for self-study or homework tasks, and may also be used in class with the teacher.

Clean My Space Melissa Maker 2017-03-07 The wildly popular YouTube star behind Clean My Space presents the breakthrough solution to cleaning better with less effort! Melissa Maker is beloved by fans all over the world for her completely re-engineered approach to cleaning. As the dynamic new authority on home and living, Melissa knows that to invest any of our precious time in cleaning, we need to see big, long-lasting results. So, she developed her method to help us get the most out of our effort and keep our homes fresh and welcoming every day. In her long-awaited debut book, she shares her revolutionary 3-step solution: • Identify the most important areas (MIAs) in your home that need attention • Select the proper products, tools, and techniques (PTT) for the job • Implement these new cleaning routines so that they stick Clean My Space takes the chore out of cleaning with Melissa's incredible tips and cleaning hacks (the power of pretreating!) her lightning fast 5-10 minute "express clean" routines for every room when time is tightest, and her techniques for cleaning even the most daunting places and spaces. And a big bonus: Melissa gives guidance on the best non-toxic, eco-conscious cleaning products and offers natural cleaning solution recipes you can make at home using essential oils to soothe and refresh. With Melissa's simple groundbreaking method you can truly live in a cleaner, more cheerful, and calming home all the time.

Building Your Own Home For Dummies Kevin Daum 2011-03-04 Keep construction on track with helpful checklists Turn your dream of a custom home into reality! Thinking about building your own home? This easy-to-follow guide shows you how to plan and build a beautiful home on any budget. From acquiring land to finding the best architect to overseeing the construction, you get lots of savvy tips on managing your new investment wisely -- and staying sane during the process! Discover how to: • Find the best homesite • Navigate the plan approval process • Obtain financing • Hire the right contractor • Cut design and construction costs • Avoid common mistakes

Rantings of a Mad Man Abu Malik 2017-08-16 A rib-tickling, pithy look at life and its idiosyncrasies ... Run after money, it will keep you fit. Have sex, it will keep you alive. The more you look and behave like a monkey, the more successful you will be. Too much knowledge brings pain into your life. Read Rantings of a Mad Man for more such practical nuggets to tackle life's endless marathon. The book urges you to make the most of your existence on earth without actually taking life too seriously. The author's perspectives will surprise you, even shock you at times, and definitely leave you thinking for a long, long time. Abusims, as the author calls his words of wisdom, question popular perceptions and burst several myths in the process of unearthing life's vital truths. Are you ready to handle the naked truth, no holds barred?

Official Gazette of the United States Patent and Trademark Office 2007

Crocodile Tears Anthony Horowitz 2009-11-17 Alex Rider is now an IMDB TV/Amazon Original Series! Alex Rider is an orphan turned teen superspy who's saving the world one mission at a time—from #1 New York Times bestselling author! A charity broker con artist has raised millions of dollars in donations, only to invest them in a form of genetically modified corn that has the power to release an airborne strain of virus so powerful it can knock out an entire country in one windy day. A catastrophe so far-reaching that it would raise millions of dollars more in charitable donations, all of which would be embezzled by one man. The antidote? Alex Rider, of course, who survives gunfire, explosions, and hand-to-hand combat with mercenaries--just another day in the life of an average kid. From the author of Magpie Murders and Moriarty.

Home 2004

Capitalism and Class in the Gulf Arab States Adam Hanieh 2016-04-30 This book analyzes the recent development of Gulf capitalism through to the aftermath of the 2008 economic crisis. Situating the Gulf within the evolution of capitalism at a global scale, it presents a novel theoretical interpretation of this important region of the Middle East political economy.

Congressional Record United States. Congress 2012

Kansei/Affective Engineering Mitsuo Nagamachi 2016-04-19 A guided tour through the each stages of process, Kansei/Affective Engineering explores how to apply Kansei/Affective Engineering. It describes the psychological survey and psycho-physiological measurement of consumer feelings and the multivariate statistical analysis of this survey data, including rough set models. Since soft computing technology is very useful from the viewpoint of product design, the author details the expert system, neural networks, GA, and other relevant methods to support the designer's decision or the customer's choice. The text includes applied examples in areas such as automotive, home electric, appliances, cosmetics, packaging, and e-commerce business.

The Legends of King Arthur and His Knights James Knowles 2021-05-01 Arthurian expert Sir James Knowles brings together fourteen tales of King Arthur and his knights, inspired by Alfred, Lord Tennyson's first four 'Idylls of the King'. Here is a fascinating journey through the land of ancient England where magic, mystery and warring factions come together in cataclysmic fashion. Beginning with the finding of the wizard Merlin, Sir James recounts the discovery of the legendary sword Excalibur, King Arthur's victory over the Saxons and his marriage to the beautiful Guinevere, as well as his battles against armies from Europe and his evasion of Queen Morgan's attempts to kill him with a magic garment. Tales include: • The Prophecies of Merlin and the Birth of Arthur • The Miracle of the Sword and Stone • The Lady of the Lake • The Founding of the Round Table • The Adventures of Sir Gawain Revealing the escapades of the Knights of the Round Table, such as Lancelot, Bedivere, Bors, Modred, Tristram and Galahad, as they seek to protect Arthur's kingdom, we discover how these fabled figures found their destiny. ABOUT THE SERIES: Arcturus Classic Myths and Legends brings together beautiful retellings of mythologies from different traditions, from Celtic to Native American.

Simply Imperfect Robyn Griggs Lawrence 2011-05-01 This revised and updated edition of The Wabi-Sabi House recounts the history of this aesthetic philosophy and reveals ways to introduce it into your home. The ancient Japanese philosophy of wabi-sabi is about appreciating simplicity and letting go of the superficial--the perfect antidote to modern consumerism and perfectionism. In 2004, author Robyn Griggs Lawrence helped popularize wabi-sabi in North America with her book The Wabi-Sabi House. In Simply Imperfect, Lawrence shows that wabi-sabi is far more than a style of home décor. It's a state of mind—a way of living modestly in the moment, stripping away the unnecessary, and finding satisfaction in everyday things. Tracing the rich history of wabi-sabi from its Zen Buddhist roots to the present day, this beautifully-illustrated book also offers tips on: Clearing clutter and blocking noise Integrating salvaged and recycled materials Making and growing things yourself (or supporting local artisans who do) Taking time and space for self-reflection

VERSUS: Heritage for Tomorrow Correia, Mariana 2014 Vernacular architecture represents a great resource that has considerable potential to define principles for sustainable design and contemporary architecture. This publication is the result of an overall aim to produce a valuable tool for analysis regarding vernacular heritage through different assessments, in order to define principles to consider for sustainable development. This was possible through a comprehensive reflection on the principles established and the strategies to recognise in different world contexts. The present publication was the result of an in-depth approach by 46 authors from 12 countries, concerned with the analysis and critical assessment of vernacular heritage and its sustainable perspective. The book presents 8 chapters addressing operational definitions and synopses advances, regarding the main areas of vernacular heritage contribution to sustainable architecture. It also presents 15 chapters and 53 case studies of vernacular and contemporary approaches in all the 5 continents, regarding urban, architectural, technical and constructive strategies and solutions. VERSUS, HERITAGE FOR TOMORROW: Vernacular Knowledge for Sustainable Architecture is the result of a common effort undertaken by the partners ESG | Escola Superior Gallaecia, Portugal, as Project leader; CRATERE | Ecole Nationale Supérieure d'Architecture de Grenoble, France; DIDA | Università degli Studi di Firenze, Italy; DICAAR | Università degli Studi di Cagliari, Italy; and UPV | Universitat Politècnica de València, Spain. This is the final outcome of VerSus, an European project developed from 2012 to 2014, in the framework of the Culture 2007-2013 programme.

French Cruisers John Jordan 2013-03-04 The French produced some of the most striking and innovative interwar cruiser designs. A large amount of new information about these ships has become available over the past twenty years in France, but this book is the first to make this accessible to an English-speaking readership. Part I explains the design philosophy behind each of the classes built after 1922, and outlines the characteristics of each type, accompanied by detailed data tables and a comprehensive set of specially-drawn plans based on official documents, as well as carefully-selected photographs. Coverage includes the De Grasse, laid down in August 1939 and completed postwar as an AA cruiser, and also the heavy cruisers of the Saint Louis class intended to follow her, about which little has been published. Part II deals with the historical side, covering not only the eventual careers of these ships, but also explaining the peacetime organisation of the Marine Nationale, the complex politics of this turbulent period and their impact on the navy. Like its highly successful predecessor, French Battleships, this beautifully presented book subtly blends technical and historical analysis to produce what must become the standard reference work.

The Story of King Arthur and His Knights Howard Pyle 2015-07-11 In these wonderfully illustrated tales, renowned storyteller Howard Pyle carries us back to the enchanting world of King Arthur and his Round Table. The book chronicles the adventures of Arthur as he draws the sword Excalibur from the anvil, proving his right to the throne, and as he courts and wins the heart of Guinevere. Later he suffers the treachery of the wicked Morgana le Fay and witnesses the tragic fate of the Enchanter Merlin. In Pyle's classic retelling, the legends come alive in unsurpassed vividness. More powerful than any of Merlin's spells, The Story of King Arthur and His Knights has enthralled and delighted generations of readers fascinated by chivalry, magic, and the unforgettable drama of medieval times. A wonderfully fantastical and compelling version of the Arthur legend. Howard Pyle's stories of King Arthur and his knights are themselves legendary. Colorful tales of chivalry are combined with his own detailed illustrations to create an elegant and beautiful book.

The Divine Office in the Latin Middle Ages Margot E. Fassler 2000-08-17 The Divine Office--the cycle of daily worship other than the Mass--is the richest source of liturgical texts and music from the Latin Middle Ages. However, its richness, the great diversity of its manuscripts, and its many variations from community to community have made it difficult to study, and it remains largely unexplored terrain. This volume is a practical guide to the Divine Office for students and scholars throughout the field of medieval studies. The book surveys the many questions related to the Office and presents the leading analytical tools and research methods now used in the field. Beginning with the Office in the early Middle Ages, the book covers manuscript sources and their contents; regional developments and variations; the relationship between the Office, the Mass, and other ceremonies and repertoires; and the deep links between the Office and medieval hagiography. The book concludes with a discussion of recent technical advances for handling the enormous amounts of evidence on the Office and its performance, in particular CANTUS, the vast electronic database developed by Ruth Steiner of Catholic University for the analysis of chant repertoires. The Divine Office in the Latin Middle Ages is an essential resource for anyone studying medieval liturgy. Its accessible style and broad coverage make it an important basic reference for a wide range of students and scholars in art history, religious studies, social history, literature, musicology, and theology.

Critical and Exegetical Hand-book to the New Testament Heinrich August Wilhelm Meyer 1885