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Computer Vision – ECCV 2022 Apr 12 2022 The 39-volume set, comprising the LNCS books 13661 until 13699, constitutes the refereed proceedings of the 17th European Conference on Computer Vision, ECCV 2022, held in Tel Aviv, Israel, during October 23–27, 2022. The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.

Handbook of Studies on Men and Masculinities Apr 19 2020 The handbook provides a broad view of masculinities primarily across the social sciences, but including important debates in areas of the humanities & natural sciences.

Advances and Applications of the EEG-fMRI Technique on Epilepsies Mar 19 2020

Social Media in Asia Jun 21 2020 As part of the advocacy of the Asian Congress for Media and Communication (ACMC) to promote regional studies in global academic discourse, this book contributes to a better understanding of social media within the context of Southeast Asian countries, with the addition of Sri Lanka. The contributors here are primarily Asian academics and practitioners, immersed in the fields of media and communication. Throughout the chapters, the reader will discover that social media has changed the paradigm of communication in the region: as an avenue for free expression; as a tool for news gathering and news distribution; as an aid in crime prevention; and even as a means to find a lifelong partner. For non-Asian readers, there is also an annex that provides a summary of social media statistics in the region to allow the countries mentioned in this book to be situated within the global context.

Quantitative Thermochronology Sep 17 2022 Thermochronology, the study of the thermal history of rocks, enables us to quantify the nature and timing of tectonic processes. First published in 2006, Quantitative Thermochronology is a robust review

of isotopic ages, and presents a range of numerical modeling techniques to allow the physical implications of isotopic age data to be explored. The authors provide analytical, semi-analytical and numerical solutions to the heat transfer equation in a range of tectonic settings and under varying boundary conditions. They then illustrate their modeling approach built around a large number of case studies. The benefits of different thermochronological techniques are also described. Computer programs on an accompanying website at www.cambridge.org/9781107407152 are introduced through the text and provide a means of solving the heat transport equation in the deforming Earth to predict the ages of rocks and compare them directly to geological and geochronological data. Several short tutorials, with hints and solutions, are also included.

Corporate Governance May 21 2020 Corporate Governance - A Practical Handbook is a user-friendly resource for those needing a practical set of tools to carry out the complex work of the board of directors. The writing is simple and direct with information icons to indicate particularly important passages. Drawing on research and international best commercial practice, this practical handbook provides clear, pragmatic guidance, effective techniques and must-know principles for good governance. No matter what your experience level — whether in a large corporate or a

community not-for-profit - this book will inform and stimulate your thinking and help you build the best governance knowledge and practices for your organisation. Practical checklists, templates and tables enable the reader to develop a comprehensive set of governance tools and documents (eg performing a governance audit, developing business strategy and governance policies, recording minutes).

Arbitration and Dispute Resolution in the Resources Sector Dec 20 2022 This book provides a comprehensive Australian perspective on the resolution of resources disputes. In particular, it focuses on the use of arbitration, mediation and adjudication in the resources sector. It concentrates on arbitration as the preferred method of dispute resolution, including international commercial and investor-state arbitration. The book offers fascinating insights into the use of arbitration to investment disputes involving resources companies in the African OHADA countries, Australia and other countries. It offers an Australian perspective which will be useful to discerning arbitration scholars and dispute resolvers. In addition, the book provides useful information on how to draft arbitration clauses for resources sector contracts. This publication will be of interest to members of the academic research community and will also appeal to dispute resolution professionals and practitioners.

Constructing a Consumer-Focused Industry Jul 15 2022 The old saying 'safe as

houses' is being challenged around the world like never before. Over recent decades homeowners have experienced the devastating effects of defects like asbestos, leaky buildings, structural failings, and more recently the combustible cladding crisis. The provision of safe and secure housing is a critical starting point to ensure that social value can be delivered in the built environment. However, some of these dangerous defects have resulted in a lack of security, safety, health, well-being, and social value for households and the wider community. The problems homeowners experience go beyond the substantial financial costs for defect rectification. Too often there has been a lack of government and industry support to help the housing consumer through these issues or to prevent them from occurring to begin with. It is time for a rethink and restructure of government policy, support, and industry practices to better protect housing consumers and deliver high-quality and sustainable housing that creates social value. Through evidence-based research and international case studies, this book focuses on the effects that dangerous defects have on the housing consumer. The ongoing construction cladding crisis is used as a primary case study throughout to highlight these implications, with other previous large-scale defect examples, such as leaky buildings and asbestos. Based upon the range of emerging evidence, we propose ideas for policy makers, construction and built environment professionals, owners

corporations, and households on how to move forward towards a higher-quality, sustainable, and socially valuable way of residential living. Government policy has long focused on ‘making industry work’ through building regulations and standards. It is now time for greater government and industry focus on the consumer to make ‘consumer protection work’ in the built environment. There is a need to prevent dangerous defects like combustible cladding, better support consumers when defects emerge, and to create buildings for social value rather than minimum standards. Now is the time to build a better future for the end-user.

Multi-Antenna Synthetic Aperture Radar Oct 06 2021 Synthetic aperture radar (SAR) is a well-known remote sensing technique, but conventional single-antenna SAR is inherently limited by the minimum antenna area constraint. Although there are still technical issues to overcome, multi-antenna SAR offers many benefits, from improved system gain to increased degrees-of-freedom and system flexibility. Multi-Antenna Synthetic Aperture Radar explores the potential and challenges of using multi-antenna SAR in microwave remote sensing applications. These applications include high-resolution imaging, wide-swath remote sensing, ground moving target indication, and 3-D imaging. The book pays particular attention to the signal processing aspects of various multi-antenna SAR from a top-level system perspective. Explore Recent

Extensions of Synthetic Aperture Radar Systems The backbone of the book is a series of innovative microwave remote sensing approaches developed by the author. Centered around multi-antenna SAR imaging, these approaches address specific challenges and potential problems in future microwave remote sensing. Chapters examine single-input multiple-output (SIMO) multi-antenna SAR, including azimuth and elevation multi-antenna SAR, and multiple-input multiple-output (MIMO) SAR. The book details the corresponding system scheme, signal models, time/phase/spatial synchronization methods, and high-precision imaging algorithms. It also investigates their potential applications. Introductory Tutorials and Novel Approaches in Multi-Antenna SAR Imaging Rigorous and self-contained, this is a unique reference for researchers and industry professionals working with microwave remote sensing, SAR imaging, and radar signal processing. In addition to novel approaches, the book also presents tutorials that serve as an introduction to multi-antenna SAR imaging for those who are new to the field.

OECD/G20 Base Erosion and Profit Shifting Project Making Dispute Resolution More Effective – MAP Peer Review Report, New Zealand (Stage 1) Inclusive Framework on BEPS: Action 14 Feb 22 2023 Under Action 14, countries have committed to implement a minimum standard to strengthen the effectiveness and

efficiency of the mutual agreement procedure (MAP). The MAP is included in Article 25 of the OECD Model Tax Convention and commits countries to endeavour to resolve disputes related to ...

Experiments in 3D CAD-based Inspection Using Range Images Jul 03 2021

MICCAI 2005 May 13 2022 The two-volume set LNCS 3749 and LNCS 3750

constitutes the refereed proceedings of the 8th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2005, held in Palm Springs, CA, USA, in October 2005. Based on rigorous peer reviews the program committee selected 237 carefully revised full papers from 632 submissions for presentation in two volumes. The first volume includes all the contributions related to image analysis and validation, vascular image segmentation, image registration, diffusion tensor image analysis, image segmentation and analysis, clinical applications - validation, imaging systems - visualization, computer assisted diagnosis, cellular and molecular image analysis, physically-based modeling, robotics and intervention, medical image computing for clinical applications, and biological imaging - simulation and modeling. The second volume collects the papers related to robotics, image-guided surgery and interventions, image registration, medical image computing , structural and functional brain analysis, model-based image analysis, image-guided intervention:

simulation, modeling and display, and image segmentation and analysis.

Translating Artificial Intelligence Into Clinical Use Within Cardiology Jan 09 2022

Science and Applications of Coastal Remote Sensing Aug 16 2022 IN MEMORIAL:

This Research Topic is dedicated to our co-editor Dr. Tiffany Moisan, a well-regarded ocean color remote sensing scientist, who unexpectedly passed away during its preparation. Dr. Moisan was a dear friend, and upbeat and enthusiastic colleague and a scientist committed to the use of remote sensing to improve our understanding of marine microbiology and phytoplankton ecology. She was a strong supporter of the development of remote sensing capabilities and applications for coastal and inland waters, and we know that she would have wanted this Research Topic to provide her colleagues an opportunity to share and promote their work in this area. A voice in our community is now quiet. Let the chorus of our shared song continue with her memory. Dr. Tiffany Moisan is survived by her loving family, including her husband, Dr. John Moisan and her two daughters.

New Zealand Libraries Mar 11 2022

An Abundance Study of IC 418 Using High Resolution, Signal-to-noise Emission Spectra Oct 18 2022

Time-Space, Spiking Neural Networks and Brain-Inspired Artificial Intelligence Sep 24

2020 Spiking neural networks (SNN) are biologically inspired computational models that represent and process information internally as trains of spikes. This monograph book presents the classical theory and applications of SNN, including original author's contribution to the area. The book introduces for the first time not only deep learning and deep knowledge representation in the human brain and in brain-inspired SNN, but takes that further to develop new types of AI systems, called in the book brain-inspired AI (BI-AI). BI-AI systems are illustrated on: cognitive brain data, including EEG, fMRI and DTI; audio-visual data; brain-computer interfaces; personalized modelling in bio-neuroinformatics; multisensory streaming data modelling in finance, environment and ecology; data compression; neuromorphic hardware implementation. Future directions, such as the integration of multiple modalities, such as quantum-, molecular- and brain information processing, is presented in the last chapter. The book is a research book for postgraduate students, researchers and practitioners across wider areas, including computer and information sciences, engineering, applied mathematics, bio- and neurosciences.

Bulletin of the Atomic Scientists May 01 2021 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic

"Doomsday Clock" stimulates solutions for a safer world.

The New Zealand Oxford Dictionary Feb 16 2020 The New Zealand Oxford Dictionary is the first large-scale English dictionary especially prepared for New Zealand users. It has been compiled at the New Zealand Dictionary Centre in Wellington, and reflects both the New Zealand Dictionary Centre's research into New Zealand English and research into international English conducted by Oxford dictionary centres worldwide, especially the research for The Oxford English Dictionary . The New Zealand Oxford Dictionary contains over 100,000 definitions, including over 12,000 New Zealand entries and a wide range of encyclopedic information which provide information about the world, especially its notable persons and places. Also included are a series of Appendices which provide historical, geographical and other information, as well as sections on grammar and punctuation. The Appendices also include both the English and Maori versions of the Treaty of Waitangi and the national anthem, God Defend New Zealand.

Medical Image Computing and Computer-Assisted Intervention – MICCAI 2005
Jun 14 2022

Hepatitis Prevention and Treatment Feb 27 2021 Chronic viral hepatitis has emerged as one of the most common causes of disease and death worldwide. Because of their

unique modes of replication and intimate association with the host immune system, hepatitis B virus (HBV) and hepatitis C virus (HCV) pose challenging problems to scientists in basic and applied research as well as to clinicians engaged in disease management. Although approved antiviral therapy is available for chronic HBV, the emergence of viral resistance provides a rationale for the development of novel chemotherapeutic agents. The lack of a robust cell culture system for HCV replication and a readily accessible small-animal model of HCV infection have hampered the development of antiviral agents for HCV. Nevertheless, new antiviral agents targeting HCV are now in preclinical and clinical development. This monograph, providing an up-to-date overview of the field of Hepatitis Prevention and Treatment, includes contributions from internationally recognized experts in the field of viral hepatitis, and covers the current state of knowledge and practice regarding the molecular biology, immunology, biochemistry, pharmacology and clinical aspects of chronic HBV and HCV infection. The volume includes salient topics such as: the history and epidemiology of HBV and HCV; recent insights into the molecular mechanisms of viral replication; the host immune response to infection and a discussion of the use (HBV) or potential development (HCV) of vaccines; the current standard of care for chronically-infected patients; and emerging therapies and issues associated with current

antiviral treatments. The latest information to researchers and clinicians actively engaged in viral hepatitis research is provided, but also sufficient background and discussion of the literature to benefit the newcomer to the field.

Peace Operations and Restorative Justice Dec 28 2020 With a bold vision and a distinctive message, Reddy stipulates that international peacekeeping can be designed and implemented using the principles of restorative justice. To prove this, Reddy discusses the congruence of crime, armed conflict and violent disorder, critiquing restorative justice and its nuanced character as a suitable application to complex civil wars. This book provides a comprehensive survey of peace operations and then focuses on the cases of Somalia and Bougainville. The comparison between their societal contexts, their conflicts, peace operations and final outcomes are crucial to this argument. Furthermore, this shows how the constraining, maximising and emergent values of restorative justice can be applied in a peacekeeping setting, from the overall command level through to the behaviours of deployed peacekeepers - with direct contemporary application. This sharp study makes for evocative reading as it introduces the new concept of regeneration as key to any restoratively arranged peace operation. Military, police, NGO and civilian peacekeeper practitioners, as well as academic theorists, can use this unique work to produce better and more lasting results

for conflict ridden communities.

New Zealand Journal of Forestry Jan 29 2021

Australasian Coachbuilder and Wheelwright Dec 16 2019

Annual Report Sep 05 2021

Adams on Criminal Law Nov 07 2021 Adams on Criminal Law has been New Zealand's most trusted criminal law reference for over 40 years. The Student Edition looks at the Crimes Act 1961 and Criminal Procedure Act 2011 and offers practical commentary on key sections. The concise way in which it is written, and the easy to follow format make it an ideal resource for practitioners looking for a quick reference tool. The 2021 edition is generally current to 1 November 2020

Bulletin - Institute of Mathematical Statistics Feb 10 2022

DVC: a Visual Journey from Brief to Design Resolution Oct 26 2020 DVC ' A visual journey from brief to design resolution deconstructs a design brief, giving explanations and exercises that lead to the completion of each stage of ideation, instrumental drawing and presentation drawing. The book profiles actual student work, including the unique feature of them commenting on their own work. These comments offer valuable insight into how they overcame the challenges posed by the brief, and the dedication required to produce their work, their words should be of value to all DVC students.

Also included are examples of work at a low, middle and top level of achievement in design sketching, rendering and instrumental drawing.

Constitutional Law, Democracy and Development Jul 23 2020 Uganda, like many African countries in the 1990s, adopted decentralisation as a state reform measure after many years of civil strife and political conflicts, by transferring powers and functions to district councils. The decision to transfer powers and functions to district councils was, in the main, linked to the quest for democracy and development within the broader context of the nation state. This book's broader aim is to examine whether the legal and policy framework of decentralisation produces a system of governance that better serves the greater objectives of local democracy, local development and accommodation of ethnicity. Specifically, the book pursues one main aim: to examine whether indeed the existing legal framework ensures the smooth devolution process that is needed for decentralised governance to succeed. In so doing, the book seeks, overall, to offer lessons that are critically important not only for Uganda but any other developing nation that has adopted decentralisation as a state-restructuring strategy. The book uses a desk-top research method by reviewing Uganda's decentralisation legal and policy frameworks.

Unmanned Aerial Vehicle Systems in Crop Production Jan 17 2020 This volume

responds to the growing interest in adopting aerial robots (UAVs, or drones) for agricultural crop production, which are revolutionizing farming methods worldwide. The book provides a detailed review of 250 UAVs that examines their usefulness in enhancing profitability, yield, and quality of crop production. Recent trends indicate an increase in agricultural drone production and use. Millions of dollars have been invested in start-ups that produce agro-drones in the past several years. North America, Europe, China, and the Far East have excelled in offering a large number of UAV models. Some of them are versatile, a few are specific, and many of them are low cost. With so many drone models (over 1200) available, how do farmers and agricultural specialists choose the models best for them? This compendium examines the most useful drones and provides the pertinent details about each drone, its producer, cost incurred, and its pros and cons. It covers their technical specifications, suitability for various purposes, previous performances in farms, and possible benefits to farmers. It covers fixed-wing drones, fixed-winged (hybrid) VTOL helicopters, multi-copters, tilted-wing drones, etc. The book includes a few drones meant more for military or other purposes (e.g. recreation/fun) but that could be easily modified and adapted for the farming sector. The reviews compare activities among the UAVs, such as aerial imagery of crops, ability to provide spectral analyses to collect useful data about a

crop's growth patterns, and how they can be used to gauge crop canopy temperature (i.e. water stress index), determine grain maturity, and much more.

Ceramic Materials and Components for Energy and Environmental Applications

Aug 24 2020 This volume of the Ceramic Transactions series compiles a number of papers presented at the 9th International Conference on Ceramic Materials and Components for Energy and Environmental Applications (9th CMCEE) in Shanghai, China and was the continuation of a series of international conferences held all over the world over the last three decades. This volume contains selected peer reviewed papers from more than 300 presentations from all over the world. The papers in this volume also highlight and emphasize the importance of synergy between advanced materials and component designs.

Remote Sensing and Urban Analysis Oct 14 2019 One of the key geographical developments over the last two centuries has been that of urbanisation. In recent years this has exploded globally, particularly in developing countries. It is essential for governments, planners and researchers in geography and allied fields to understand this process and the main way of being able to do this is to accurately map these changes. The main method of this mapping is Remote Sensing. This up-to-date analysis of the area looks at a wide range of methodologies currently being used to produce and

analyse remotely sensed data of urban areas. The authors examine the various techniques used to extract information from digital, multispectral images of urban areas. Donnay and Barnsley then go on to look at the identification of urban forms, the delineation of agglomerations and the development of urban morphology, considering the analysis of integrated data sets and surface models and going on to look at the estimation of human population levels.

Trends in Urban Rodent Monitoring and Mitigation: Improving Our Understanding of Population and Disease Ecology, Surveillance and Control Mar 31 2021

Geocomputation with R Dec 08 2021 Geocomputation with R is for people who want to analyze, visualize and model geographic data with open source software. It is based on R, a statistical programming language that has powerful data processing, visualization, and geospatial capabilities. The book equips you with the knowledge and skills to tackle a wide range of issues manifested in geographic data, including those with scientific, societal, and environmental implications. This book will interest people from many backgrounds, especially Geographic Information Systems (GIS) users interested in applying their domain-specific knowledge in a powerful open source language for data science, and R users interested in extending their skills to handle

spatial data. The book is divided into three parts: (I) Foundations, aimed at getting you up-to-speed with geographic data in R, (II) extensions, which covers advanced techniques, and (III) applications to real-world problems. The chapters cover progressively more advanced topics, with early chapters providing strong foundations on which the later chapters build. Part I describes the nature of spatial datasets in R and methods for manipulating them. It also covers geographic data import/export and transforming coordinate reference systems. Part II represents methods that build on these foundations. It covers advanced map making (including web mapping), "bridges" to GIS, sharing reproducible code, and how to do cross-validation in the presence of spatial autocorrelation. Part III applies the knowledge gained to tackle real-world problems, including representing and modeling transport systems, finding optimal locations for stores or services, and ecological modeling. Exercises at the end of each chapter give you the skills needed to tackle a range of geospatial problems. Solutions for each chapter and supplementary materials providing extended examples are available at <https://geocompr.github.io/geocompkg/articles/>. Dr. Robin Lovelace is a University Academic Fellow at the University of Leeds, where he has taught R for geographic research over many years, with a focus on transport systems. Dr. Jakub Nowosad is an Assistant Professor in the Department of Geoinformation at the Adam

Mickiewicz University in Poznan, where his focus is on the analysis of large datasets to understand environmental processes. Dr. Jannes Muenchow is a Postdoctoral Researcher in the GIScience Department at the University of Jena, where he develops and teaches a range of geographic methods, with a focus on ecological modeling, statistical geocomputing, and predictive mapping. All three are active developers and work on a number of R packages, including stplanr, sabre, and RQGIS.

Cable-Driven Parallel Robots Nov 26 2020 Gathering presentations to the First International Conference on Cable-Driven Parallel Robots, this book covers classification and definition, kinematics, workspace analysis, cable modeling, hardware/prototype development, control and calibration and more.

New Zealand Lizards Nov 19 2022 This edited volume is a timely and comprehensive summary of the New Zealand lizard fauna. Nestled in the south-west Pacific, New Zealand is a large archipelago that displays the faunal signatures of both its Gondwanan origins, and more recent oceanic island influences. New Zealand was one of the last countries on Earth to be discovered, and likewise, the full extent of the faunal diversity present within the archipelago is only just starting to be appreciated. This is no better exemplified than in lizards, where just 30 species (20 skinks, 10 geckos) were recognized in the 1950s, but now 104 are formally or informally

recognized (61 skinks, 43 geckos). Thus, New Zealand contains one of the most diverse lizard faunas of any cool, temperate region on Earth. This book brings together the world's leading experts in the field to produce an authoritative overview of the history, taxonomy, biogeography, ecology, life-history, physiology and conservation of New Zealand lizards.

Immersive Multimodal Interactive Presence Nov 14 2019 Immersive Multimodal Interactive Presence presents advanced interdisciplinary approaches that connect psychophysical and behavioral haptics research with advances in haptic technology and haptic rendering. It delivers a summary of the results achieved in the IMMERSENCE European project and includes selected chapters by international researchers. Organized into two parts: I. Psychophysical and Behavioral Basis and II. Technology and Rendering, it is an excellent example of interdisciplinary research directed towards the advancement of multimodal immersive virtual environments with particular focus on haptic interaction. The twelve chapters of the book are grouped around three different scenarios representing different types of interactions in virtual environments: Person-Object (PO), Person-Object-Person (POP) and Person-Person (PP) interaction. Recent results of psychophysical and behavioral studies are reported along with new technological developments for haptic displays and novel haptic rendering techniques.

International Law Issues in the South Pacific Aug 04 2021 Exploring a selection of current issues in international law as they pertain to South Pacific countries and Antarctica, this volume covers diverse topics including mass refugee flows, transnational crime, international terrorism, freedom of navigation, climate change, international trade agreements and bioprospecting in Antarctica. As well as presenting a critical evaluation of these issues, the book offers an introduction to the South Pacific region and the instruments and institutional arrangements which facilitate co-operation and co-ordination within it. Tensions and interactions with external forces emanating from the global community and from key players outside the region are analyzed in the context of particular issues. *International Law Issues in the South Pacific* will be a valuable resource for students, researchers and policy makers with an interest in the region and in contemporary international law issues.

Geocomputation with R Jan 21 2023 *Geocomputation with R* is for people who want to analyze, visualize and model geographic data with open source software. It is based on R, a statistical programming language that has powerful data processing, visualization, and geospatial capabilities. The book equips you with the knowledge and skills to tackle a wide range of issues manifested in geographic data, including those with scientific, societal, and environmental implications. This book will interest people from

many backgrounds, especially Geographic Information Systems (GIS) users interested in applying their domain-specific knowledge in a powerful open source language for data science, and R users interested in extending their skills to handle spatial data. The book is divided into three parts: (I) Foundations, aimed at getting you up-to-speed with geographic data in R, (II) extensions, which covers advanced techniques, and (III) applications to real-world problems. The chapters cover progressively more advanced topics, with early chapters providing strong foundations on which the later chapters build. Part I describes the nature of spatial datasets in R and methods for manipulating them. It also covers geographic data import/export and transforming coordinate reference systems. Part II represents methods that build on these foundations. It covers advanced map making (including web mapping), "bridges" to GIS, sharing reproducible code, and how to do cross-validation in the presence of spatial autocorrelation. Part III applies the knowledge gained to tackle real-world problems, including representing and modeling transport systems, finding optimal locations for stores or services, and ecological modeling. Exercises at the end of each chapter give you the skills needed to tackle a range of geospatial problems. Solutions for each chapter and supplementary materials providing extended examples are available at <https://geocompr.github.io/geocompkg/articles/>. Dr. Robin Lovelace is a University

Academic Fellow at the University of Leeds, where he has taught R for geographic research over many years, with a focus on transport systems. Dr. Jakub Nowosad is an Assistant Professor in the Department of Geoinformation at the Adam Mickiewicz University in Poznan, where his focus is on the analysis of large datasets to understand environmental processes. Dr. Jannes Muenchow is a Postdoctoral Researcher in the GIScience Department at the University of Jena, where he develops and teaches a range of geographic methods, with a focus on ecological modeling, statistical geocomputing, and predictive mapping. All three are active developers and work on a number of R packages, including stplanr, sabre, and RQGIS.

Multi-dimensional Imaging Jun 02 2021 Provides a broad overview of advanced multidimensional imaging systems with contributions from leading researchers in the field Multi-dimensional Imaging takes the reader from the introductory concepts through to the latest applications of these techniques. Split into 3 parts covering 3D image capture, processing, visualization and display, using 1) a Multi-View Approach and 2.) a Holographic Approach, followed by a 3rd part addressing other 3D systems approaches, applications and signal processing for advanced 3D imaging. This book describes recent developments, as well as the prospects and challenges in advances in imaging sciences and engineering such as 3D image sensing, 3D holographic imaging,

imaging applications for bio-photonics and 3D image recognition. Advanced imaging systems incorporate knowledge from various fields. It is a complex technology that combines physics, optics, signal processing, and image capture techniques. Provides a broad overview of advanced multidimensional imaging systems with contributions from leading researchers in the field. Integrates the background, introductory material with new advances in 3D imaging and applications. Covers the most recent technologies such as high speed digital holography, compressive sensing, real-time 3D integral imaging, 3D TV, photon counting imaging. To be available as an enhanced ebook with added functionality of colour films showing the effects of advanced 3D applications such as 3D microscopy, 3D biomedical imaging and 3D for security and defense applications. Acts as a single source reference to the rapidly developing field of 3D imaging technology. Provides supplementary material on a companion website including video clips, examples, numerical simulations, and experimental results to show the theoretical concepts. With contributions from leading researchers from across these fields, Multi-dimensional Imaging is a comprehensive reference for the imaging technology research community.

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