

Lesson 9 Image Interpretation

9.1 Visual Image Interpretation of Photographs and Images

Image interpretation of remote sensing data is to extract qualitative and quantitative information from the photograph or imagery. It involves identification of various objects on the terrain which may be natural or artificial consists of points, lines, or polygons. It depends on the way how different features reflect or emits the incident electromagnetic radiation and their recording by a camera or sensor. In the very beginning, when digital images and computerised classification were not available, the aerial photographs were analyzed only by visual interpretation. Accuracy of the interpretation depends on the training, experience, scale of photograph, geographic location of the study area, associated map, ground observation data etc. After the availability of satellite images, the data were categorized in two processing methods: analogue aerial photographs and digital satellite images. Though satellite images can be visually interpreted and aerial photographs can be processed by computers.

In image or photograph, some objects may be readily identifiable while other may not. It depends on individual perceptions and experience. The detail to which an image or photograph can be analyzed depends on the resolution of the image and scale of the photograph. Satellite images are generally have small scale than aerial photographs and cannot be analyzed stereoscopically.

9.2 Elements of Visual Interpretation

In our daily life we interpret many photos and images, but interpretation of aerial photographs and images are different because of three important aspects: (1) the portrayal of features from an overhead, often unfamiliar, perspective; (2) the frequent use of wavelengths outside of the visible portion of the spectrum; and (3) the depiction of the earth's surface at unfamiliar scales and. Eight fundamental parameters or elements are used in the interpretation of remote sensing images or photographs. These are tone or color, texture, size, shape, pattern, shadow, site and association. In some cases, a single such element is alone sufficient for successful identification; in others, the use of several elements will be required.

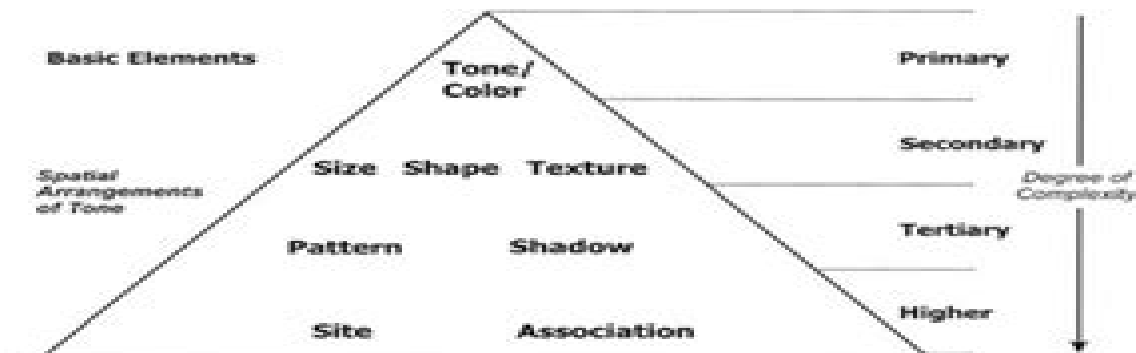


Fig. 9.1. Ordering of image elements in image interpretation.

i) **Tone or color:** Tone is the relative brightness of grey level on black and white image or color/F.C.C image. Tone is the measure of the intensity of the reflected or emitted radiation of

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Perri 6, Christine Bellamy



Lesson 9 Interpretation:

Aristotle on Interpretation Saint Thomas Aquinas, Aeterna Press, There is a twofold operation of the intellect as the Philosopher says in III De anima 6 430a 26 One is the understanding of simple objects that is the operation by which the intellect apprehends just the essence of a thing alone the other is the operation of composing and dividing There is also a third operation that of reasoning by which reason proceeds from what is known to the investigation of things that are unknown The first of these operations is ordered to the second for there cannot be composition and division unless things have already been apprehended simply The second in turn is ordered to the third for clearly we must proceed from some known truth to which the intellect assents in order to have certitude about something not yet known Aeterna Press

Learning the Tarot Joan Bunning, 1998-01-15 Learning the Tarot Joan Bunning offers a complete course in 19 lessons that covers the basics and then gradually goes into more advanced concepts First published in 1998 Joan Bunning's Learning the Tarot has become a tarot classic Written in a confident and natural style the book communicates the basic depth and beauty of each card shows how the cards trigger psychological projection and enhances intuition Learning the Tarot is a thorough but never overwhelming invitation to the beginner The book focuses in detail on the actual process of discovering meaning in the cards how to consider one card by itself how to look for card pairs how to create the story of a reading The book includes a convenient reference section that contains two pages of information for each card including a picture from the popular Waite Smith deck a description keywords action phrases and suggestions for cards with similar and opposite meanings The author first presented this course online at learntarot.com which continues to attract over one hundred thousand visitors per month When I first created my website in 1995 writes Joan Bunning I never dreamed how much interest in the tarot I would find People from all over the world began writing to tell me about their experiences with the course and their adventures with the cards This response was music to my ears I knew from my own experience that the tarot is a wonderful tool for personal guidance and inner exploration My goal with this book was to give you the basics you need to begin working with the tarot on your own I try to make this inner process understandable by breaking it up into a series of steps that are simple while still doing justice to the depth and beauty of the cards I concentrate on the everyday showing how the tarot makes real practical sense in the modern world The tarot is a living system that adapts creatively to each user Rather than rules I offer guidelines While reading my book I want you to feel that you have a teacher sitting next to you who is introducing you to this special tool but also encouraging you to go on to discover your own unique approach to the cards

Outlines in Theology for Use in the Schools and Seminaries of the Church of Jesus Christ of Latter-day Saints Church of Jesus Christ of Latter-day Saints. General Church Board of Education, 1922

DNA Analysis for Missing Person Identification in Mass Fatalities Amanda C Sozer, 2014-01-28 Advances in DNA technology have expanded such that forensic DNA profiling is now considered a routine method for identifying victims of mass fatalities Originating from an

initiative funded by a grant from the U S Department of State DNA Analysis for Missing Person Identification in Mass Fatalities presents a collection of training modules that supply comprehensive instruction in these complex techniques The book begins with a concise overview of DNA analysis methods and their use in identifying victims of mass fatalities It then goes on to explore Mass fatality response operations including body recovery mortuary operations family assistance the identification of human remains and psychosocial support for families Best practices in DNA sample collection and the different types of reference samples that can be used to identify a reported missing RM individual Autosomal short tandem repeat STR DNA profile analysis and interpretation and procedures to ensure data accuracy Major steps involved in generating a DNA profile and the complex aspects of data analysis and interpretation The importance of data management using information technology tools and tips for maintaining quality operations Accreditation and standards and the major elements of a DNA quality program Setting up a laboratory operation including planning staffing identifying types of equipment and supplies and the procedures for ensuring that laboratory equipment performs appropriately The book includes a discussion of the key steps in the preparation delivery and evaluation of training sessions for personnel responding to a mass fatality human identification event It also provides a comprehensive vocabulary list with terms related to mass fatality DNA identification This text is a must read for organizations contemplating the use of DNA in human identification initiatives following mass fatalities It is also a tremendous value to emergency manager planners medical legal authorities and forensic DNA laboratories

Quantum Chance and Non-locality W. Michael Dickson, Michael Dickson, 1998-04-02 The book will appeal to anyone with an interest in the interpretation of quantum mechanics

Statistics: A Gentle Introduction Frederick L. Coolidge, 2012-05-03 With Statistics A Gentle Introduction Third Edition an introductory stats class needn't be difficult or dull Frederick L Coolidge specifically designed his text to curtail students anxieties and minimize unnecessary formulas while providing a comprehensive review of basic statistical designs and analyses A wealth of additional real world examples have been included to give a sense of how the science of statistics works solves problems and helps us make informed choices about the world we live in The author minimizes the use of formulas but provides a step by step approach to their solution and includes a glossary of key terms symbols and definitions at the end of each chapter Every chapter also includes a short story about historical and contemporary statisticians who figured prominently in the evolution of the discipline of statistics New to the Third Edition is the thorough incorporation of SPSS throughout more visual material and figures and an enhanced treatment of effect sizes and more detailed explanation of statistical concepts

Handbook of Speech-Language Therapy in Sub-Saharan Africa Ulrike M. Lüdtke, Edward Kija, Mathew Kinyua Karia, 2023-02-03 This book synthesizes research on language development and communication disability in Sub Saharan Africa and highlights best practices for providing speech and language therapy services to individuals with language communication and hearing disorders across the lifespan The book brings together a wide range of international contributions from various disciplines

such as speech language pathology audiology developmental psychology language education social work neurology neuropsychology pediatrics linguistics pedagogy and phonetics to provide perspectives on problems challenges ideas concepts and models to serve the people in Sub Saharan Africa Key areas of coverage include Challenges for speech language therapists in the health sector Community awareness and the sustainable delivery of services Culture specific support of communication and language development in early childhood Malnutrition dysphagia feeding difficulties pediatric HIV and related issues Communication disability treatments including assessment and intervention augmentative and alternative communication AAC and issues specific to bilingualism and biliteracy Inclusive education of children with communication disorders with case studies from Rwanda Tanzania Kenya and South Africa The Handbook of Speech Language Therapy in Sub Saharan Africa is an essential reference for researchers professors and graduate students as well as clinicians therapists and other professionals in developmental psychology speech language pathology and therapy social work neuropsychology pediatrics special education community based rehabilitation and all related disciplines

"Your Name and You" Orcella Rexford,1928 **The Color of Credit** Stephen L. Ross,John Yinger,2002-11-08 An analysis of current findings on mortgage lending discrimination and suggestions for new procedures to improve its detection In 2000 homeownership in the United States stood at an all time high of 67.4 percent but the homeownership rate was more than 50 percent higher for non Hispanic whites than for blacks or Hispanics Homeownership is the most common method for wealth accumulation and is viewed as critical for access to the most desirable communities and most comprehensive public services Homeownership and mortgage lending are linked of course as the vast majority of home purchases are made with the help of a mortgage loan Barriers to obtaining a mortgage represent obstacles to attaining the American dream of owning one's own home These barriers take on added urgency when they are related to race or ethnicity In this book Stephen Ross and John Yinger discuss what has been learned about mortgage lending discrimination in recent years They re-analyze existing loan approval and loan performance data and devise new tests for detecting discrimination in contemporary mortgage markets They provide an in-depth review of the 1996 Boston Fed Study and its critics along with new evidence that the minority white loan approval disparities in the Boston data represent discrimination not variation in underwriting standards that can be justified on business grounds Their analysis also reveals several major weaknesses in the current fair lending enforcement system namely that it entirely overlooks one of the two main types of discrimination disparate impact misses many cases of the other main type disparate treatment and insulates some discriminating lenders from investigation Ross and Yinger devise new procedures to overcome these weaknesses and show how the procedures can also be applied to discrimination in loan pricing and credit scoring

Principles of Methodology Perri 6,Christine Bellamy,2011-10-17 This book provides a comprehensive accessible guide to social science methodology In so doing it establishes methodology as distinct from both methods and philosophy Most existing textbooks deal with methods or sound ways of collecting and analysing data to

generate findings In contrast this innovative book shows how an understanding of methodology allows us to design research so that findings can be used to answer interesting research questions and to build and test theories Most important things in social research e g beliefs institutions interests practices and social classes cannot be observed directly This book explains how empirical research can nevertheless be designed to make sound inferences about their nature effects and significance The authors examine what counts as good description explanation and interpretation and how they can be achieved by striking intelligent trade offs between competing design virtues Coverage includes why methodology matters what philosophical arguments show us about inference competing virtues of good research design purposes of theory models and frameworks forming researchable concepts and typologies explaining and interpreting inferring causation meaning and significance and combining explanation and interpretation The book is essential reading for new researchers faced with the practical challenge of designing research Extensive examples and exercises are provided based on the authors long experience of teaching methodology to multi disciplinary groups Perri 6 is Professor of Social Policy in the Graduate School in the College of Business Law and Social Sciences at Nottingham Trent University Chris Bellamy is Emeritus Professor of Public Administration in the Graduate School Nottingham Trent University

Building bridges a Peace Corps classroom guide to cross-cultural understanding. , Jurisprudence, Interpretation, and General Laws Mr. Rohit

Manglik,2024-03-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Introduction of Advanced State Space Grids and Their Application to the Analysis of Physics Teaching Niklas Litzenberger,2023-10-25 Teaching is characterized by complex interactions Therefore it is difficult to make global statements about a teaching sequence However methods that aim at a global assessment of teaching have often been used in indicator based lesson observation It remains unclear how reliable global assessments of entire lesson sequences are since no statements can be made about dynamic processes taking place One approach is the State Space Grids SSG developed by Hollenstein 2013 These make it possible to relate the development of two teaching characteristics to each other over time to visualize dynamic processes However there is no suitable way to numerically capture the relationship between indicators e g to compare such moment to moment assessments with global assessments The aim of this work is therefore to extend the SSG approach to Advanced State Space Grids with mathematically based parameters to test their practicability to compare them with global assessments of entire teaching sequences and to investigate their applicability to physics teaching Numerical and graphical elements are added to the SSG plot These include new relation types between the recorded indicators chi square tests and parameters for densities and deviations

Amdo Tibetan: A Comprehensive Grammar Textbook Kuo-ming Sung,Lha Byams Rgyal,2021-05-27 Amdo Tibetan A Comprehensive Grammar Textbook is a rigorous one

year college level textbook for English speakers who wish to learn the Amdo dialect of the Tibetan language This comprehensive introduction to the language provides dialogues at the start of each new lesson to illustrate the constructions covered in that lesson Material from previous chapters is recycled within these dialogues to reinforce learning as the lessons progress Each chapter unpacks the opening sample dialogue and provides an in depth analysis and technical explanations of the specific constructions presented Cultural sections are also included in each chapter as well as a range of exercises and drills to reinforce learning and help students internalize the new information The book will be of particular interest to linguists and students with some knowledge of either standard colloquial or literary Tibetan Cambridge Primary Global Perspectives Teacher's Resource 5 with Digital Access Adrian Ravenscroft, Thomas Holman, 2022-01-13 This series has been developed for the Cambridge Primary Global Perspectives Curriculum Framework 0838 Created to guide you through the Cambridge Primary Global Perspectives curriculum framework our print and digital teacher resources are the perfect addition to your classroom Make the most of expert teaching notes from our authors step by step activities cross curricula links and differentiation ideas with our Take it further feature **Mape with Pleasure 5 Teacher's Manual 1st Ed. 2001** ,

Making Connections ,2006-01-01 In this book comparisons are made between the practices of classrooms in a variety of different school systems around the world The abiding challenge for classroom research is the realization of structure in diversity The structure in this case takes the form of patterns of participation regularities in the social practices of mathematics classrooms The expansion of our field of view to include international rather than just local classrooms increases the diversity and heightens the challenge of the search for structure while increasing the significance of any structures once found In particular this book reports on the use of lesson events as an entry point for the analysis of lesson structure International research offers opportunities to study settings and characteristics untenable in the researcher's local situation Importantly international comparative studies can reveal possibilities for practice that would go unrecognized within the established norms of educational practice of one country or one culture Our capacity to conceive of alternatives to our current practice is constrained by deep rooted assumptions reflecting cultural and societal values that we lack the perspective to question The comparisons made possible by international research facilitate our identification and interrogation of these assumptions Such interrogation opens up possibilities for innovation that might not otherwise be identified expanding the repertoire of mathematics teachers internationally and providing the basis for theory development

Writing a Persuasive Essay, Grades 5 - 8 Myers, 2008-09-02 Write on Write with students in grades 5 and up using Writing a Persuasive Essay This 80 page book breaks down persuasive writing into manageable steps such as choosing a subject analyzing defining terms gathering information and organizing Also covers supporting an argument reviewing and writing the essay revising and finalizing Clear information and examples teach students how to complete each step The book also includes information for teachers and parents and tips for evaluating student responses Content-area Writing

Strategies For Mathematics Walch Publishing, 2003-09-02

Reading the Newspaper Margery Staman Miller, Karen Kuelthau Allan, 1987 Teaches the skills needed to read the newspaper effectively and leads students to use the newspaper in everyday life Promotes middle grade students reading language arts and critical thinking skills

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