



PREFACE

# Individual identification and photographic techniques in mammalian ecological and behavioural research—Part 1: Methods and concepts

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## Editorial introduction to Part 1

Individual identification (individual-ID) of free-ranging animals has become a central tenet of studying many dimensions of animal behavior and ecology. It is often achieved through photographic means (photo-ID), where a photograph of an individually recognizable animal constitutes the sighting and marking–recapture event. This provides a powerful means of investigating animal sociality and various aspects of their population ecology. The adaptiveness of this approach in conjunction with its minimal intrusiveness makes it a tool of choice in many field studies, both marine and terrestrial. It has been applied across species and habitats, gathering a large variety of information, such as population parameters, processes and trends (e.g., Karanth 1995; Welch and Parker 2016; Chan and Karczmarski 2017; Gabriele et al. 2022), group dynamics, social behavior and social structure (e.g., Karczmarski et al. 2005; Wittemyer et al. 2005; Cantor et al. 2012; Rubenstein et al. 2015), movement, geographic range and range use pattern (e.g., Wittemyer et al. 2007; Rendell et al. 2014; Lee and Bolger 2017; Tang et al. 2021), and many other aspects of animals' daily lives (e.g., Lehmann and Boesch 2008; Crofoot et al. 2011; Cantor et al. 2016; Wrangham et al. 2016; Muller et al. 2018; Turner et al.

2021). It is largely thanks to the effective application of individual identification and mark–recapture techniques that our understanding of mammalian ecology, behavior, and socio-demographic processes have advanced so remarkably in the past half-a-century (Whitehead 2008; Clutton-Brock and Sheldon 2010).

Photo-ID research, however, remains among the most labor-intensive within the field of animal ecology, as processing the photographic material collected during field surveys consumes innumerable hours of painstaking dedicated effort. While recent advances in digital photography have greatly improved the efficiency of gathering data, many high-quality digital photographs obtained at low-cost result in vast amounts of data accumulated over short time periods. Under such circumstances, efficient data processing and management becomes a challenge. Lately, however, rapid advances in automated pattern-recognition and machine-learning algorithms have been catching up with current state-of-the-art digital photography, opening up this field of research to new possibilities and ideas of how to further improve the efficiency of field data collection (e.g., Schofield et al. 2019; Batchner et al. 2021; Machado and Cantor 2022), broaden the type, array and geographic scale of data collected during any given field day (e.g., Rieucau et al. 2018; Schneider et al. 2019; Khan et al. 2022), and—importantly—improve the efficiency of processing the individual-ID data immediately upon the completion of a field day (e.g., Lahiri et al. 2011; Guo et al. 2020; Thompson et al. 2022) and ensure the reliability of identification systems across long time-scales (e.g., Bodesheim et al. 2022; Cheeseman et al. 2022; Tyson Moore et al. 2022). Other photographic applications also received a fresh breath of new ideas, such as photogrammetry (e.g., Galimberti et al. 2019; Gray et al. 2019; Shirane et al. 2020; O'Connell-Rodwell et al. 2022; Richardson et al. 2022) or biodiversity and monitoring surveys (e.g., Miao et al. 2019; Tabak et al. 2019; Howell et al. 2022; Sun et al. 2022; Rydell

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# Photographic Techniques Sci Resear

**L.C. Chhabildas, Lee Davison, Y. Horie**



## **Photographic Techniques Sci Resear:**

**Photographic Techniques in Scientific Research** John Cruise, Anthony Armin Newman, 1976 Photographic Instrumentation, Science and Engineering, Its Military Equipments, Techniques, and Applications; Oct. 1965 United States. Naval Air Systems Command, 1967 Scientific Photography and Applied Imaging Sidney Ray, 1999-08-02 WINNER OF THE 2001 KRASZNA KRAUSZ PHOTOGRAPHY BOOK AWARD Technical Photography category The only definitive book to fully encompass the use of photography and imaging as tools in science technology and medicine It describes in one single volume the basic theory techniques materials special equipment and applications for a wide variety of uses of photography including close up photography and photomacrography to spectral recording surveillance systems radiography and micro imaging This extensively illustrated photography bible contains all the information you need whether you are a scientist wishing to use photography for a specialist application a professional needing to extend technical expertise or a student wanting to broaden your knowledge of the applications of photography The contents are arranged in three sections General Section detailing the elements of the image capture process Major Applications describing the major applications of imaging Specialist Applications presenting an eclectic selection of more specialised but increasingly important applications Each subject is introduced with an outline of its development and contemporary importance followed by explanations of essential theory and an overview of techniques and equipment Mathematics is only used where necessary Numerous applications and case studies are described Comprehensive bibliographies and references are provided for further study *PHOTOGRAPHIC TECHNIQUES IN SCIENTIFIC RESEARCH* John Cruise, Anthony Armin Newman, 1973 **Photographic Applications in Science, Technology, and Medicine**, 1974 **High-Pressure Shock Compression of Solids VIII** L.C. Chhabildas, Lee Davison, Y. Horie, 2006-03-30 Research in the field of shock physics and ballistic impact has always been intimately tied to progress in development of facilities for accelerating projectiles to high velocity and instrumentation for recording impact phenomena The chapters of this book written by leading US and European experts cover a broad range of topics and address researchers concerned with questions of material behaviour under impulsive loading and the equations of state of matter as well as the design of suitable instrumentation such as gas guns and high speed diagnostics Applications include high speed impact dynamics the inner composition of planets syntheses of new materials and materials processing Among the more technologically oriented applications treated is the testing of the flight characteristics of aeroballistic models and the assessment of impacts in the aerospace industry **Metropolitan Museum Studies in Art, Science, and Technology** Silvia Centeno, Nora Kennedy, M. T. Wypyski, Marijn Manus, Deborah Schorsch, Richard E. Stone, Zhixin Sun, 2014-07-01 This second volume of Studies in Art Science and Technology unites studies by scientists curators and conservators all of which are published here for the first time Essays and technical notes address a variety of themes such as connections between technology and aesthetics aging processes of artworks attribution and dating issues and conservation theory Specific

examples from throughout art history add context and help promote deeper understanding. A wide range of objects are discussed in the texts including medieval sculptures, Baroque musical instruments, Egyptian stone works, photographs, enamels, and paintings. The refined analyses of these works will prove relevant and enlightening to an interdisciplinary professional audience.

Technology Assessment, Hearings Before the Subcommittee on Science, Research, and Development...91-1, November 18, 24; December 2, 3, 4, 8, and 12, 1969. United States. Congress. House Science and Astronautics, 1970.

Science and Public Policy ...: The Federal research program. United States. President's Scientific Research Board, John Roy Steelman, 1947.

*2019 National Institute of Justice Forensic Science Research and Development Symposium*. Nicole Sue Jones, Erica Nadine Fornaro., 2019-02-17. The 2019 National Institute of Justice NIJ Forensic Science Research and Development R research and development in broader scientific fields applicable to forensic science and ongoing forensic science research toward the development of highly discriminating, accurate, reliable, cost effective, and rapid methods for the identification, analysis, and interpretation of physical evidence for criminal justice purposes.

**Routledge Handbook of Art, Science, and Technology Studies**. Hannah Rogers, Megan Halpern, Dehlia Hannah, Kathryn de Ridder-Vignone, 2021-12-22. Art and science work is experiencing a dramatic rise coincident with burgeoning Science and Technology Studies. STS interest in this area. Science has played the role of muse for the arts, inspiring imaginative reconfigurations of scientific themes and exploring their cultural resonance. Conversely, the arts are often deployed in the service of science communication, illustration, and popularization. STS scholars have sought to resist the instrumentalization of the arts by the sciences, emphasizing studies of theories and practices across disciplines and the distinctive and complementary contributions of each. The manifestation of this commonality of creative and epistemic practices is the emergence of Art Science and Technology Studies (ASTS) as the interdisciplinary exploration of art science. This handbook defines the modes, practices, crucial literature, and research interests of this emerging field. It explores the questions, methodologies, and theoretical implications of scholarship and practice that arise at the intersection of art and STS. Further, ASTS demonstrates how the arts are intervening in STS. Drawing on methods and concepts derived from STS and allied fields, including visual studies, performance studies, design studies, science communication, and aesthetics, and the knowledge of practicing artists and curators, ASTS is predicated on the capacity to see both art and science as constructions of human knowledge making. Accordingly, it posits a new analytical vernacular enabling new ways of seeing, understanding, and thinking critically about the world. This handbook provides scholars and practitioners already familiar with the themes and tensions of art science with a means of connecting across disciplines. It proposes organizing principles for thinking about art science across the sciences, social sciences, humanities, and arts. Encounters with art and science become meaningful in relation to practices and materials manifest as perceptual habits, background knowledge, and cultural norms. As the chapters in this handbook demonstrate, a variety of STS tools can be brought to bear on art science so that systematic research can be

conducted on this unique set of knowledge making practices      **Photographic Techniques in Scientific Research. V.2** A. Newman,1976      Serials Currently Received by the National Agricultural Library, a Keyword Index National Agricultural Library (U.S.),1974      **Science** John Michels (Journalist),1920 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting      *CENTO Workshop on Applications of Remote Sensing Data and Methods* ,1976      **Encyclopedia of Nineteenth-Century Photography** John Hannavy,2013-12-16 The Encyclopedia of Nineteenth Century Photography is the first comprehensive encyclopedia of world photography up to the beginning of the twentieth century It sets out to be the standard definitive reference work on the subject for years to come Its coverage is global an important first in that authorities from all over the world have contributed their expertise and scholarship towards making this a truly comprehensive publication The Encyclopedia presents new and ground breaking research alongside accounts of the major established figures in the nineteenth century arena Coverage includes all the key people processes equipment movements styles debates and groupings which helped photography develop from being a solution in search of a problem when first invented to the essential communication tool creative medium and recorder of everyday life which it had become by the dawn of the twentieth century The sheer breadth of coverage in the 1200 essays makes the Encyclopedia of Nineteenth Century Photography an essential reference source for academics students researchers and libraries worldwide      Proceedings of the Regional Conference on Science, Technology and Social Sciences (RCSTSS 2016) Mohd Yusri Mohamad Noor,Badli Esham Ahmad,Mohd Rozaidi Ismail,Hasnizawati Hashim,Mohd Amli Abdullah Baharum,2018-07-20 This book features papers addressing a broad range of topics including psychology religious studies natural heritage accounting business communication education and sustainable development It serves as a platform for disseminating research findings by academicians of local regional and global prominence and acts as a catalyst to inspire positive innovations in the development of the region It is also a significant point of reference for academicians and students This collection of selected social sciences papers is based on the theme Soaring Towards Research Excellence presented at the Regional Conference of Sciences Technology and Social Sciences RCSTSS 2016 organised bi annually by Universiti Teknologi MARA Cawangan Pahang Malaysia      Handbook of Child Psychology and Developmental Science, Theory and Method ,2015-03-31 The essential reference for human development theory updated and reconceptualized The Handbook of Child Psychology and Developmental Science a four volume reference is the field defining work to which all others are compared First published in 1946 and now in its Seventh Edition the Handbook has long been considered the definitive guide to the field of developmental science Volume 1 Theory and Method presents a rich mix of classic and contemporary theoretical perspectives but the dominant views throughout are marked by an emphasis on the dynamic interplay of all facets of the developmental system across the life span incorporating the range of biological cognitive emotional social cultural and ecological levels of analysis Examples of the theoretical approaches discussed in the volume include those pertinent to

human evolution self regulation the development of dynamic skills and positive youth development The research methodological and applied implications of the theoretical models discussed in the volume are presented Understand the contributions of biology person and context to development within the embodied ecological system Discover the relations among individual the social world culture and history that constitute human development Examine the methods of dynamic developmental research Learn person oriented methodological approaches to assessing developmental change The scholarship within this volume and as well across the four volumes of this edition illustrate that developmental science is in the midst of a very exciting period There is a paradigm shift that involves increasingly greater understanding of how to describe explain and optimize the course of human life for diverse individuals living within diverse contexts This Handbook is the definitive reference for educators policy makers researchers students and practitioners in human development psychology sociology anthropology and neuroscience

**Photography in Science** Mia Collins, AI, 2025-02-26 Photography in Science explores the camera's transformative role in scientific advancement moving beyond simple recording to become an indispensable tool for observation and analysis The book reveals how photography has enabled scientists to visualize the invisible through micro and macrophotography documenting everything from cellular structures to vast landscapes It also highlights the surprising influence of photography on scientific collaboration and communication fundamentally reshaping how knowledge is disseminated The book traces the history of scientific photography from its early experiments to its modern applications in fields like medicine and environmental monitoring One intriguing insight is how photography transformed subjective interpretation into objective record revolutionizing fields like forensic science and anthropology The book begins by explaining the basic physics of light and image formation then systematically delves into the advent of micro and macro photography the documentation of large scale phenomena and the role of photography in medical and forensic science What sets this book apart is its blend of technical details historical narratives and philosophical reflections on the ethics of image manipulation Readers will gain a deeper understanding of how visual data shapes scientific understanding and decision making and how photographic data is now integrated with computational analysis machine learning and artificial intelligence to unlock new scientific insights

**Indexed Bibliography of Northeast Fisheries Science Center Publications and Reports for 1990-91** Jon A. Gibson, 1994

## **Photographic Techniques Sci Resear** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Photographic Techniques Sci Resear**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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