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A wide range of books on image processing and analysis provide comprehensive descriptions of mathematics and algorithms for image processing practitioners, or introductory material for engineering students. This volume is different in addressing the topic from the point of view of the "user". Standard algorithms, procedures and rules of thumb are explained in the context of successful application to biological or medical images. Early chapters cover the basic topics of image acquisition, processing, analysis and pattern recognition. Much of the explanation is in the form of protocols, which should equip the user in the biological or earth sciences with the background for informed use of image processing software, and sufficient knowledge to write their own programmes if they feel moved to do so. More advanced techniques in the use of explicit models and analysis of 3D images are covered in later chapters, also with reference to specific applications. The coverage of these is not exhaustive, but may inspire the reader to consider applying image analysis to problems beyond those tackled by commercial packages. Biodegradation mediated by indigenous microbial communities is the ultimate fate of the majority of oil hydrocarbon that enters the marine environment. The aim of this Research Topic is to highlight recent advances in our knowledge of the pathways and controls of microbially-catalyzed hydrocarbon degradation in marine ecosystems, with emphasis on the response of microbial communities to the Deepwater Horizon oil spill in the Gulf of Mexico. In this Research Topic, we encouraged original research and reviews on the ecology of hydrocarbon-degrading bacteria, the rates and mechanisms of biodegradation, and the bioremediation of discharged oil under situ as well as near in situ conditions. Image Processing with MATLAB: Applications in Medicine and Biology explains complex, theory-laden topics in image processing through examples and MATLAB algorithms. It describes classical as well emerging areas in image processing and analysis. Providing many unique MATLAB codes and functions throughout, the book covers the theory of probability an Since the discovery of the gene for green fluorescent protein(GFP), derived from jellyfish, this protein that emits a green glowhas initiated a revolution in molecular biosciences. With thistool, it is now possible to visualize nearly any protein ofinterest in any cell or

tissue of any species. Since the publication of the first edition, there have been tremendously significant technological advances, including development of new mutant variants. Proteins are now available in yellow and blue, and Novel Fluorescent Proteins (NFPs) have expanded their utility in developing biosensors, biological markers, and other biological applications. This updated, expanded new edition places emphasis on the rise of NFPs, including new chapters on NFP properties with detailed protocols, applications of GFPs and NFPs in industry research, and biosensors. This book provides a solid theoretical framework, along with detailed, practical guidance on use of GFPs and NFPs with discussion of potential pitfalls. The expert contributors provide real examples in showing how to tailor GFP/NFP to specific systems, maximize expression, and enhance detection. This volume chronicles the proceedings of the 9th International Symposium on Particles on Surfaces: Detection, Adhesion and Removal held in Philadelphia, PA, June 2004. The study of particles on surfaces is crucially important in a legion of diverse technological areas, ranging from microelectronics to biomedical to space. This volume contains a total of 21 papers covering many ramifications of particles on surfaces, ranging from detection to removal. All manuscripts were rigorously peer-reviewed and revised, and properly edited before inclusion in this book. The topics covered include: imaging and analysis of macro and nanosize particles and surface features; determination of particles on surfaces; laser inactivation on surfaces; laser-assisted nanofabrication on surfaces; post-CMP cleaning process; pre-gate cleaning; solar panel obscuration in the Martian atmosphere; adhesion and friction of microsized particles; microroughness of textile fibers and capture of particles; factors affecting particle adhesion and removal; various techniques for cleaning or removal of particles from different substrates including laser, combination of laser-induced shockwave and explosive vaporization of liquid, attenuated total internal reflection of laser light, CO₂ snow, use of dense phase fluids, use of surfactants and impinging air jet; and removal of sub-100-nm particles. This detailed collection gathers both established and recent technical procedures to study the Endosomal Sorting Complex Required for Transport (ESCRT) complexes in a wide range of biological systems: *Archaea*, *A. thaliana*, *U. maydis*, *S. cerevisiae*, *S. pombe*, *C. elegans*, *D. melanogaster*, and mammalian cells. Opening with a section on imaging techniques, the book continues with chapters covering biochemical approaches presenting strategies for production and characterization of recombinant ESCRT proteins, or of specific ESCRT protein domains, as well as genetic and proteomic experimental approaches. Written for the highly successful *Methods in Molecular Biology* series, chapters include introduction to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *The ESCRT Complexes: Methods and Protocols* serves as a compact guide for researchers interested in establishing an integrated approach to investigate the ESCRT machinery functions in cell biology. This eBook is a collection of articles from a *Frontiers Research Topic*. *Frontiers Research Topics* are very popular trademarks of the *Frontiers Journals Series*: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, *Frontiers Research Topics* unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own *Frontiers Research Topic* or contribute to one as an author by contacting the *Frontiers Editorial Office*: frontiersin.org/about/contact. The three-volume set LNAI 7196, LNAI 7197 and LNAI 7198 constitutes the refereed proceedings of the 4th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2012, held in Kaohsiung, Taiwan in March 2012. The 161 revised papers presented were carefully reviewed and selected from more than

472 submissions. The papers included cover the following topics: intelligent database systems, data warehouses and data mining, natural language processing and computational linguistics, semantic Web, social networks and recommendation systems, collaborative systems and applications, e-business and e-commerce systems, e-learning systems, information modeling and requirements engineering, information retrieval systems, intelligent agents and multi-agent systems, intelligent information systems, intelligent internet systems, intelligent optimization techniques, object-relational DBMS, ontologies and knowledge sharing, semi-structured and XML database systems, unified modeling language and unified processes, Web services and semantic Web, computer networks and communication systems. This volume documents the proceedings of the 7th International Symposium on Particles on Surfaces: Detection, Adhesion and Removal held in Newark, NJ, June 19-21, 2000. The study of particles on surfaces is extremely important in a host of diverse technological areas, ranging from microelectronics to optics to biomedical. This volume contains a total of 28 papers, which were all properly peer reviewed, revised and edited before inclusion. Therefore, this book is not merely a collection of unreviewed manuscripts, but rather represents information which has passed peer scrutiny. Furthermore, the authors were asked to update their manuscripts, so the information contained in this book should be current and fresh. This volume is divided into two parts: 1) Particle Analysis and General Cleaning-Related Topics; and 2) Particle Adhesion and Removal. The topics covered include: surface analysis techniques for particle identification; cleaning, rinsing and drying issues in post-CMP cleaning; fundamental forces involved in particle adhesion; factors affecting adhesion of small (nanosize) particles; factors important in particle detachment; particle adhesion measurement by AFM; various (wet and dry) techniques for particle removal, e.g., laser, ultrasonic, megasonic, use of surfactants; toner particles and pharmaceutical particles. This volume offers a wealth of information on the tremendously technologically important field of particles on surfaces and should provide a consolidated source of current R&D activity in this arena. Therefore, it will be of value and use to anyone interested in the topic of particles on surfaces.

Reservoir quality is studied using a wide range of similar techniques in both sandstones and carbonates. Sandstone and carbonate reservoir quality both benefit from the study of modern analogues and experiments, but modelling approaches are currently quite different for these two types of reservoirs. There are many common controls on sandstone and carbonate reservoir quality, but also distinct differences due primarily to mineralogy. Numerous controversies remain including the question of oil inhibition, the key control on pressure solution and geochemical flux of material to or from reservoirs. This collection of papers contains case-study-based examples of sandstone and carbonate reservoir quality prediction as well as modern analogue, outcrop analogue, modelling and advanced analytical approaches. The establishment of microinjection protocols about 20 years ago for cultured cells and shortly thereafter for the generation of transgenic mice by microinjection of DNA into fertilized mouse eggs greatly influenced many fields of biology. Not only have the data generated using these approaches contributed to a large extent to our present understanding of gene regulation and cellular function of higher eukaryotic cells, but current knowledge and future developments in this area will certainly have a great impact on basic and applied research for many years to come. This laboratory manual describes the current state of the art in this research area and focuses primarily on both the experimental strategies with an extensive bibliography and the detailed procedures. A large number of studies are presently being performed and a great variety of new experimental designs are rapidly being developed. The book contains protocols on injection of somatic cells as well as on injection of embryos, the use of similar equipment being a common feature. In the articles dedicated to

somatic cells, full descriptions of the manual and automatic injection systems are given as well as the methods for the analysis of injected cells by video-microscopy, electron microscopy or in situ hybridizations. In addition, comprehensive protocols are given for injection experiments with very different purposes, such as to study signal transduction or microtubule dynamics. This book is divided in the three main areas where Professor Antonina Starita was most active in the last period of her research activity: clustering and learning applications, biomedical applications, and motor control and evaluation. The part on clustering and learning applications opens with a contribution concerning the clustering of short-text corpora by Particle Swarm Optimization (PSO). The second contribution in this part investigates the use of Neural Networks (NN), and specifically of Recurrent NN, to interpret brain images obtained by functional Magnetic Resonance Imaging (fMRI). The first part of the book is closed by a contribution on the System for Paleographic Inspections (SPI) software suite. In this book, skilled experts provide the most up-to-date, step-by-step laboratory protocols for examining molecular machinery and biological functions of exocytosis and endocytosis in vitro and in vivo. The book is insightful to both newcomers and seasoned professionals. It offers a unique and highly practical guide to versatile laboratory tools developed to study various aspects of intracellular vesicle trafficking in simple model systems and living organisms. In the past decade, advances in microscopy have been coupled with new methods of culturing and labeling cells to generate the new science of imaging. Imaging technologies allow investigators to look directly inside living cells and probe their form and function in unprecedented detail. This approach is revolutionizing many aspects of biomedical research, particularly neuroscience, in which visual techniques have traditionally been so important. This manual is the first comprehensive description of the range of imaging technologies being applied to living cells. With its origins in a laboratory course taught at Cold Spring Harbor Laboratory by the editors and contributors, it is packed with the kind of technical detail and practical advice that are essential for success, yet seldom found in the research literature. It covers both established methods and cutting-edge techniques such as multiphoton excitation microscopy and imaging of genetically engineered probes. Although it is neurons to which these technologies are most commonly applied, the methods described are readily adaptable to many other cell types. This book will therefore be an invaluable aid to investigators in cell and developmental biology and immunology as well as neuroscience who wish to take advantage of the extraordinary insights into cellular function offered by imaging technologies. Earlier books on the handling of plant chromosomes have not included many of the innovations in cytological techniques for many important crops that have become available in recent years, including information on associating genes with chromosomes. The aim of this book is to compile all the plant cytogenetic techniques, previously published in earlier books, into a laboratory manual. The first part of the book describes standard cytological techniques that are routinely used by students. The second part covers methods used for specific crops for which common cytological methods do not work satisfactorily. The third part discusses cytogenetic techniques (cytology and genetics) for physically locating genes on specific chromosomes. This novel book will be highly useful to students, teachers, and researchers as it is a convenient and comprehensive reference for all plant cytogenetic techniques and protocols. This volume includes papers originally presented at the 11th annual Computational Neuroscience Meeting (CNS 02) held in July 2002 at the Congress Plaza Hotel & Convention Center in Chicago, Illinois, USA. The CNS meetings bring together computational neuroscientists representing many different fields and backgrounds as well as many different experimental preparations and theoretical approaches. The papers published here range from pure experimental neurobiology, to neuro-

ethology, mathematics, physics, and engineering. In all cases the research described is focused on understanding how nervous systems compute. The actual subjects of the research include a highly diverse number of preparations, modeling approaches and analysis techniques. Accordingly, this volume reflects the breadth and depth of current research in computational neuroscience taking place throughout the world. This manual is a comprehensive compilation of "methods that work" for deriving, characterizing, and differentiating hPSCs, written by the researchers who developed and tested the methods and use them every day in their laboratories. The manual is much more than a collection of recipes; it is intended to spark the interest of scientists in areas of stem cell biology that they may not have considered to be important to their work. The second edition of the Human Stem Cell Manual is an extraordinary laboratory guide for both experienced stem cell researchers and those just beginning to use stem cells in their work. Offers a comprehensive guide for medical and biology researchers who want to use stem cells for basic research, disease modeling, drug development, and cell therapy applications. Provides a cohesive global view of the current state of stem cell research, with chapters written by pioneering stem cell researchers in Asia, Europe, and North America. Includes new chapters devoted to recently developed methods, such as iPSC technology, written by the scientists who made these breakthroughs. This is a color-illustrated advanced clinical monograph that analyzes and compares the three forms of endometriosis: peritoneal, ovarian, and rectovaginal. Three core chapters cover the histopathology of peritoneal endometriosis, ovarian endometriosis, and rectovaginal endometriosis. Each contains sections dealing with laparoscopic appearance and histological confirmation, morphological characteristics and morphometric studies, and immunohistochemical analyses. The data and reviews from these sections are synthesized in the concluding chapter, which examines the similarities and differences between the three disorders. The book contains appendixes on epithelial height, mitotic index, proliferation index, criteria for the evaluation of eutopic and ectopic endometrial morphology, 3-D architecture, morphometric studies, and immunohistochemical analyses. The volume contains an especially valuable reference list for studies on endometriosis. No. 2, pt. 2 of November issue each year from v. 19 (1963)-47 (1970) and v. 55 (1972)- contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology, 3d (1963)-10th (1970) and 12th (1972)- Plant-associated microbes are ubiquitous organisms living in a range of interactions with their host. Involving two organisms, research and applications of plant microbes are challenging and often require specific skills. This book guides the reader in the world of plant-associated fungi, giving both theoretical and practical insight on the potential of this interaction in biotechnology. Detailed instructions and step-by-step protocols are described for isolation, identification, localization and community analysis of fungi, studies on their bioactivity, molecular plant-fungal interactions, and development of fungi as tools for biotechnology.

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