

Else If Example Fiji Macro

Development of Methods for Directed and Structured Immobilization of Biomolecules

Surface immobilized molecules play a crucial role in applied as well as in basic research. They can be found in DNA or protein-array as well as in cell-migration or biochemical interaction experiments. Especially for proteins the immobilization can critically affect molecule accessibility and activity. In this work two essential aspects of protein immobilization were investigated: the identification of suitable surface functionalization by two array approaches and the generation of laterally structured gray scale protein patterns by projection lithography. In proof-of-concept experiments a new strategy to create an array of different, neighboring functionalizations on the same surface was successfully tested. In \"mechanical protection\" inert plungers were applied to protect distinct surface areas from the surface functionalization reagents and allowed a selective modification of individual regions in serial reactions. In a particle based alternative approach a high spot density surface array was fabricated using functionalized, polyvinyl acetate, melamine and silicon oxide-based particles. The in situ encoded bead-based array (IEBA) allowed the study of immobilization conditions and the effect of protein adhesion. For the reliable and fast analysis of array-images with several thousand individual particles a custom open-source evaluation software was developed. To create protein patterns a custom-built projection lithography device was utilized to generate high definition protein patterns. Patterning conditions were optimized with respect to deposition speed and signal to noise ratio while retaining a biocompatible process flow. The established technology provides protein patterns with great control over the deposited surface density, patterns were transferred within seconds to minutes to functionalized glass slides. To obtain three-dimensional, surface-functionalized surfaces this approach was transferred to thin polymer films. The substrates were demonstrated to be biocompatible with mouse fibroblasts. These surfaces allow a novel level of control addressing both the chemical surrounding and the shape of a cell microenvironment.

Image Processing with ImageJ

Extract and analyze data from complex images with ImageJ, the world's leading image processing tool About This Book Design automated image-processing solutions and speed up image-processing tasks with ImageJ Create quality and intuitive interfaces for image processing by developing a basic framework for ImageJ plugins. Tackle even the most sophisticated datasets and complex images Who This Book Is For The book has been created for engineers, scientists, and developers eager to tackle image processing with one of the leading tools available. No prior knowledge of ImageJ is needed. Familiarity with Java programming will be required for readers to code their own routines using ImageJ. What You Will Learn Install and set up ImageJ for image processing. Process images using ImageJ's built-in tools Create macros to perform repetitive processing tasks Set up and use an integrated development environment for ImageJ plugins Create plugins with a user-friendly interface for processing Use established ImageJ plugins for processing and quantification Generate a simple interface based on a real world example and create other interfaces for other projects Speed up interface development by setting multiple parameters interactively In Detail Advances in image processing have been vital for the scientific and technological communities, making it possible to analyze images in greater detail than ever before. But as images become larger and more complex, advanced processing techniques are required. ImageJ is built for the modern challenges of image processing – it's one of the key tools in its development, letting you automate basic tasks so you can focus on sophisticated, in depth analysis. This book demonstrates how to put ImageJ into practice. It outlines its key features and demonstrates how to create your own image processing applications using macros and ImageJ plugins. Once you've got to grips with the basics of ImageJ, you'll then discover how to build a number of different image processing solutions. From simple tasks to advanced and automated image processing, you'll gain confidence with this innovative and powerful tool – however and whatever you are using it for. Style and approach A

step-by-step guide to image processing and developing macros and plugins in ImageJ. The book will progress from using the built-in tools to macros and finally plugins for image processing.

Image Processing with ImageJ

The book will help readers discover the various facilities of ImageJ through a tutorial-based approach. This book is targeted at scientists, engineers, technicians, and managers, and anyone who wishes to master ImageJ for image viewing, processing, and analysis. If you are a developer, you will be able to code your own routines after you have finished reading this book. No prior knowledge of ImageJ is expected.

Digitale Bildverarbeitung

Die Autoren geben eine fundierte Einführung in die wichtigsten Methoden der digitalen Bildverarbeitung. Dabei steht die praktische Anwendbarkeit im Vordergrund, formale und mathematische Aspekte sind auf das Wesentliche reduziert, ohne dabei auf eine präzise und konsistente Vorgehensweise zu verzichten. Der Text eignet sich für technisch orientierte Studiengänge ab dem 3. Semester und basiert auf der mehrjährigen Lehrerfahrung der Autoren zu diesem Thema. Der Einsatz in der Lehre wird durch zahlreiche praktische Übungsaufgaben unterstützt. Das Buch eignet sich auch als detaillierte Referenz für Praktiker und Anwender gängiger Verfahren der digitalen Bildverarbeitung, z.B. in der Medizin, der Materialprüfung, der Robotik oder der Medientechnik. Softwareseitig basiert das Buch auf der in Java implementierten und frei verfügbaren Bildverarbeitungsumgebung ImageJ.

Fathoms

While the economies of the world become more and more integrated, differences in the cultures remain. The economics of cultural diversity and of cultural interactions are the main theme of this book. The essays originate from presentations at the binational Rothenberge seminar, organized by economists from the University of Munster and the University of Twente. (Series: Wirtschaft: Forschung und Wissenschaft - Vol. 28)

Global Forces, Local Identity

Designed for photographers who already have strong diving skills and understand basic photographic techniques, this reference defines what advanced underwater photography is while teaching the skills necessary to create professional-quality images. Opening with a quick overview of the basics—such as exposure, focus, subject selection, and composition—the author then expands on each of these topics, showing the techniques pros use to achieve truly stunning images. A major factor in advancing beyond the basic level of underwater photography is moving from a point-and-shoot or semi-adjustable camera to using a full-featured digital SLR camera. The myriad equipment choices available when making this transition—including cameras, lenses, underwater housings, and the lighting units designed to be used with them—are explained, as are their respective advantages and shortcomings. Because both beginning and advanced underwater photographers can have equipment-related issues, a trouble-shooting section is included to ensure that minor equipment problems won't ruin a costly dive trip.

Sustainable Development and Environmental Management of Small Islands

Unser Gehirn ist nicht – wie lange angenommen – eine unveränderliche Hardware. Es kann sich vielmehr auf verblüffende Weise umgestalten und sogar selbst reparieren. Norman Doidge verbindet faszinierende Einblicke in die neueste Forschung mit aufsehenerregenden Beispielen aus der Praxis: etwa eine Frau, deren eine Hirnhälfte die Funktionen eines ganzen Gehirns übernahm. Oder der Mann, dessen Gehirn nach einem Schlaganfall die Hirnströme in gesunde Hirnregionen »umleitet« und seinem gelähmten Arm die

Bewegungsfähigkeit zurückgibt. All dies ermöglicht unser Gehirn, das stärker und anpassungsfähiger ist, als wir je dachten.

Advanced Underwater Photography

This anthology shows the influences of Western literature and the Western literary traditions, especially as they exist in world literature written in English. It contains stories and poems dealing with South Asian American experiences and presents the evocative themes of love, loss, and exile.

The Temperance Record

Anthony de Mellos meisterhafte Anleitung zu einem Leben frei von Zwängen, frei von Enttäuschungen, frei von Ängsten. Wer den Mut hat, sich darauf einzulassen, wird es erleben. Mit weisheitlichen Geschichten aus der östlichen und westlichen Welt bringt er die Kernthemen des Lebens und damit Leserinnen und Leser auf den sprichwörtlich springenden Punkt.

Sport Diver

This book is a collection of plenary sessions papers and selected invited panel papers presented in the 26th International Conference of Agricultural Economists held at Gold Coast, Australia, from 12th to 18th August 2006. Beginning with the presidential address by Prabhu Pingali and the Elmhirst lecture by Hans Binswanger dealing with global issues of agricultural growth, economic development, and empowerment of the rural poor, leading agricultural economists address such emerging and critical issues as the economics of natural disasters, international trade and marketing, food safety and health, and transformation of unfavorable poor areas, among other issues.

Popular Photography

Postdrifting mesozoic. Africa, the \"Odd man out\". Floristic relationships between tropical Africa and tropical America. Angiosperm evolution and the relationship of the floras of Africa and America. Palms in the tropical forest ecosystems of Africa and South America. Problems related to the transoceanic transport of insects, especially between the Amazon and Congo Areas. Limnology of the Congo and Amazon Rivers. Ecology of fishes in the Amazon and Congo Basin. Birds of the Congo and Amazon Forests: a comparison. Some problems of cultural adaptation in Amazonia, with emphasis on the Pre-European Period. Recent human activities in the Brazilian Amazon Region and their ecological effects. Temperature zone influence on tropical forest land use: a plea for sanity.

Undercurrent

Neustart im Kopf

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