

AUTOMATIC DIATOM IDENTIFICATION



Figure 1
Diatom (class: *Striatella*)
Identification: *Striatella*



Automatic Diatom Identification Automatic Diatom Identification

Norman MacLeod



Automatic Diatom Identification Automatic Diatom Identification:

Automatic Diatom Identification Micha M Bayer,Hans Du Buf,2002-07-12 This is the first book to deal with automatic diatom identification It provides the necessary background information concerning diatom research useful for both diatomists and non diatomists It deals with the development of electronic databases image preprocessing automatic contour extraction the application of existing contour and ornamentation features and the development of new ones as well as the application of different classifiers neural networks decision trees etc These are tested using two image sets i a very difficult set of *Sellaphora pupula* with 6 demes and 120 images ii a mixed genera set with 37 taxa and approximately 800 images The results are excellent and recognition rates well above 90% have been achieved on both sets The results are compared with identification rates obtained by human experts One chapter of the book deals with automatic image capture i e microscope slide scanning at different resolutions using a motorized microscope stage autofocusing multifocus fusion and particle screening to select only diatoms and to reject debris This book is the final scientific report of the European ADIAC project Automatic Diatom Identification and Classification and it lists the web sites with the created public databases and an identification demo [Automatic Diatom Identification](#)

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[Modern Trends in Diatom Identification](#) Gabriel Cristóbal,Saúl Blanco,Gloria Bueno,2020-05-28 High resolution images of phytoplankton cells such as diatoms or desmids which are useful for monitoring water quality can now be provided by digital microscopes facilitating the automated analysis and identification of specimens Conventional approaches are based on optical microscopy however manual image analysis is impractical due to the huge diversity of this group of microalgae and its great morphological plasticity As such there is a need for automated recognition techniques for diagnostic tools e g environmental monitoring networks early warning systems to improve the management of water resources and decision making processes Describing the entire workflow of a bioindicator system from capture analysis and

identification to the determination of quality indices this book provides insights into the current state of the art in automatic identification systems in microscopy **Automated Taxon Identification in Systematics** Norman MacLeod,2007-07-23

The automated identification of biological objects or groups has been a dream among taxonomists and systematists for centuries However progress in designing and implementing practical systems for fully automated taxon identification has been frustratingly slow Regardless the dream has never died Recent developments in computer architectures an *Diatoms* Archana Tiwari,Ashok Pandey,Pau-Loke Show,Parameswaran Binod,2023-09-14 This reference book covers the ecological impact and biotechnological applications of diatoms Diatoms contribute to 40% of primary productivity in aquatic ecosystems They have a unique biomonitoring ability and sensitivity toward different pollutants in wastewater and are thereby a tool for ecotoxicological monitoring The book discusses the need for newer diatom based indices for wastewater quality analysis It describes the nutraceutical value of the myriad compounds like omega 3 fatty acids DHA polysaccharides and phenols in diatoms It also elaborates on the challenges in sustainable diatom biorefinery This book is meant for microbiologists biotechnologists and marine biologists **Mathematical Morphology** Laurent Najman,Hugues Talbot,2013-01-24

Mathematical Morphology allows for the analysis and processing of geometrical structures using techniques based on the fields of set theory lattice theory topology and random functions It is the basis of morphological image processing and finds applications in fields including digital image processing DSP as well as areas for graphs surface meshes solids and other spatial structures This book presents an up to date treatment of mathematical morphology based on the three pillars that made it an important field of theoretical work and practical application a solid theoretical foundation a large body of applications and an efficient implementation The book is divided into five parts and includes 20 chapters The five parts are structured as follows Part I sets out the fundamental aspects of the discipline starting with a general introduction followed by two more theory focused chapters one addressing its mathematical structure and including an updated formalism which is the result of several decades of work Part II extends this formalism to some non deterministic aspects of the theory in particular detailing links with other disciplines such as stereology geostatistics and fuzzy logic Part III addresses the theory of morphological filtering and segmentation featuring modern connected approaches from both theoretical and practical aspects Part IV features practical aspects of mathematical morphology in particular how to deal with color and multivariate data links to discrete geometry and topology and some algorithmic aspects without which applications would be impossible Part V showcases all the previously noted fields of work through a sample of interesting representative and varied applications

Diatoms Joseph Seckbach,Richard Gordon,2019-07-01 The aim of this new book series *Diatoms Biology and Applications* is to provide a comprehensive and reliable source of information on diatom biology and applications The first book of the series *Diatoms Fundamentals Applications* is wide ranging starting with the contributions of amateurs and the beauty of diatoms to details of how their shells are made how they bend light to their advantage and ours and major aspects

of their biochemistry photosynthesis and iron metabolism The book then delves into the ecology of diatoms living in a wide range of habitats and look at those few that can kill or harm us The book concludes with a wide range of applications of diatoms in forensics manufacturing medicine biofuel and agriculture The contributors are leading international experts on diatoms This book is for a wide audience researchers academics students and teachers of biology and related disciplines written to both act as an introduction to diatoms and to present some of the most advanced research on them *Structural, Syntactic, and Statistical Pattern Recognition* Terry Caelli,Adnan Amin,Robert P.W. Duin,Mohamed Kamel,Dick de Ridder,2003-08-02 This volume contains all papers presented at SSPR 2002 and SPR 2002 hosted by the University of Windsor Windsor Ontario Canada August 6 9 2002 This was the third time these two workshops were held back to back SSPR was the ninth International Workshop on Structural and Syntactic Pattern Recognition and the SPR was the fourth International Workshop on Statistical Techniques in Pattern Recognition These workshops have traditionally been held in conjunction with ICPR International Conference on Pattern Recognition and are the major events for technical committees TC2 and TC1 respectively of the International Association of Pattern Recognition IAPR The workshops were held in parallel and closely coordinated This was an attempt to resolve the dilemma of how to deal in the light of the progressive specialization of pattern recognition with the need for narrow focus workshops without further fragmenting the field and introducing yet another conference that would compete for the time and resources of potential participants A total of 116 papers were received from many countries with the submission and reviewing processes being carried out separately for each workshop A total of 45 papers were accepted for oral presentation and 35 for posters In addition four invited speakers presented informative talks and overviews of their research They were Tom Dietterich Oregon State University USA Sven Dickinson the University of Toronto Canada Edwin Hancock University of York UK Anil Jain Michigan State University USA SSPR 2002 and SPR 2002 were sponsored by the IAPR and the University of Windsor The Diatoms John P. Smol,Eugene F. Stoermer,2010-09-30 This much revised and expanded edition provides a valuable and detailed summary of the many uses of diatoms in a wide range of applications in the environmental and earth sciences Particular emphasis is placed on the use of diatoms in analysing ecological problems related to climate change acidification eutrophication and other pollution issues The chapters are divided into sections for easy reference with separate sections covering indicators in different aquatic environments A final section explores diatom use in other fields of study such as forensics oil and gas exploration nanotechnology and archaeology Sixteen new chapters have been added since the first edition including introductory chapters on diatom biology and the numerical approaches used by diatomists The extensive glossary has also been expanded and now includes over 1 000 detailed entries which will help non specialists to use the book effectively **Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications** Ruben Vera-Rodriguez,Julian Fierrez,Aythami Morales,2019-03-02 This book constitutes the refereed post conference proceedings of the 23rd

Iberoamerican Congress on Pattern Recognition CIARP 2018 held in Madrid Spain in November 2018 The 112 papers presented were carefully reviewed and selected from 187 submissions The program was comprised of 6 oral sessions on the following topics machine learning computer vision classification biometrics and medical applications and brain signals and also on text and character analysis human interaction and sentiment analysis

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