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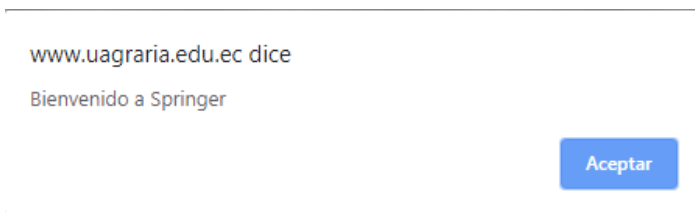
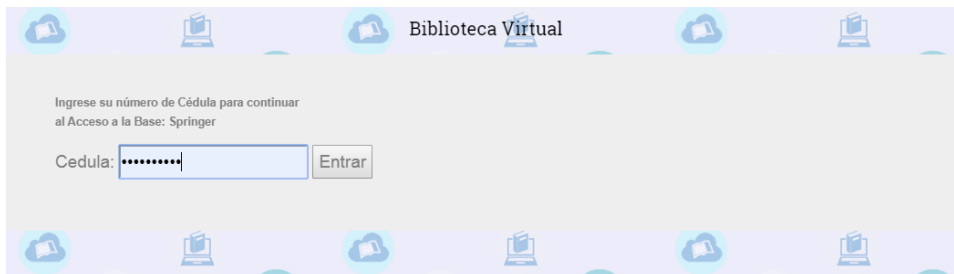


Seleccionar la biblioteca Springer



- Ingresar NÚMERO DE CEDULA (Docente o estudiante)

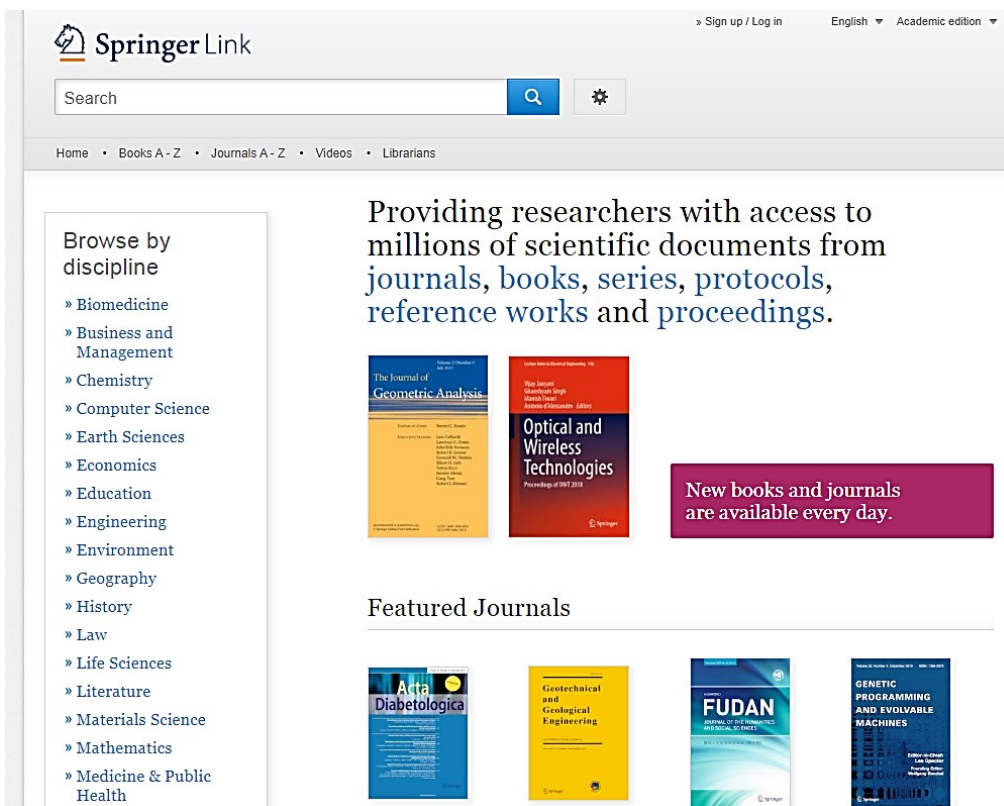
o Sus accesos serán registrados para el informe



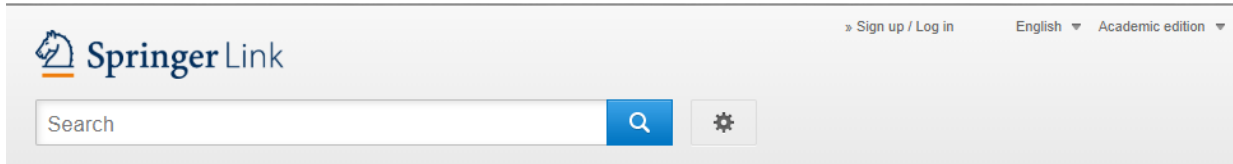
SPRINGER

Permite realizar búsquedas de: Articles, Chapters, Papers, Reference Works Entries, en varios idiomas pero principalmente en Ingles pero también incluye en Español.

- Para obtener mayores funciones es necesario registrarse en esta biblioteca y luego loguearse.



Seleccione Sing up / Log in para tener acceso a todas las funciones que estén disponibles de Springer

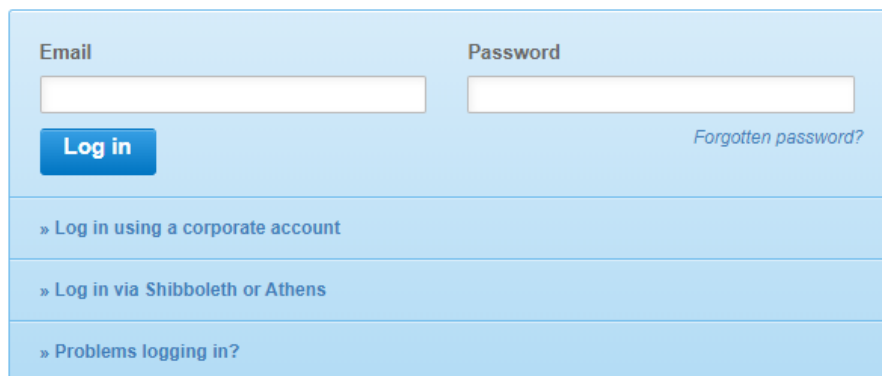


The header of the Springer Link website. On the left is the Springer Link logo. On the right, there are links for 'Sign up / Log in', 'English', and 'Academic edition'. Below the logo is a search bar with a magnifying glass icon and a settings gear icon.

Si ingresa el correo registrado y el password, se tendrá el acceso a su panel de la biblioteca



Welcome back. Please log in.



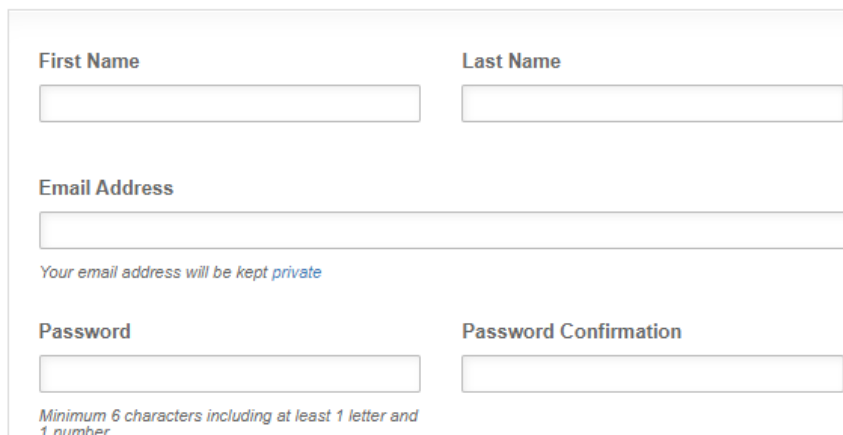
A login form with two input fields: 'Email' and 'Password'. Below the 'Email' field is a blue 'Log in' button. To the right of the 'Password' field is a link for 'Forgotten password?'. Below the form are three links: 'Log in using a corporate account', 'Log in via Shibboleth or Athens', and 'Problems logging in?'.

O debera de registrarse para obtener el acceso

Don't have an account?

Creating an account is easy, and helps us give you a more personalised experience.

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A registration form with the following fields: 'First Name', 'Last Name', 'Email Address', 'Password', and 'Password Confirmation'. Below the 'Email Address' field is a note: 'Your email address will be kept private'. Below the 'Password' field is a note: 'Minimum 6 characters including at least 1 letter and 1 number'.

Luego de loguearse tendrá acceso al panel

The image shows the Springer Link user interface. At the top left is the Springer Link logo. To its right is a search bar with the word "Search" inside. Further right is a user profile menu for "Mario Carrera Masio" with options: "Account details/profile", "Admin Dashboard", "» Athens / Shibboleth login", and "» Logout". On the far right, there are language and edition dropdowns: "English" and "Academic edition". Below the search bar is a navigation menu with links: "Home", "Books A - Z", "Journals A - Z", "Videos", "Librarians", and "Admin Dashboard".

BUSQUEDA DE CONTENIDO

Puede realizar búsquedas que incluyan preview o sean de pago, o pueden seleccionar los que si incluyen mas detalles en pdf o html

The image shows the Springer Link search results page for the query "computer". The search bar contains "computer" and has a "New Search" button and a search icon. The results show "2,825,322 Result(s) for 'computer'". There are sorting options: "Relevance", "Newest First", "Oldest First", and "Date Published". The page is on "Page 1 of 141,267". A "Refine Your Search" section is visible on the left.

Include Preview-Only content

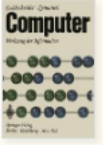
Refine Your Search

Content Type	
Chapter	1,622,357
Article	1,040,064
Conference Paper	748,986
Reference Work Entry	104,014
Book	39,620

2,825,322 Result(s) for 'computer'

Sort By: Page 1 of 141,267

Book
Computer
Werkzeug der Information
Professor Dr. Heinz Zemanek, Dr. Peter Goldscheider (1971)



The image shows the Springer Link search results page for the query "computer". The search bar contains "computer" and has a "New Search" button and a search icon. The results show "794,184 Result(s) for 'computer'". There are sorting options: "Relevance", "Newest First", "Oldest First", and "Date Published". The page is on "Page 1 of 141,267". A "Refine Your Search" section is visible on the left. A tooltip is displayed over the "Include Preview-Only content" checkbox, explaining that content is preview-only when the user or their institution has not yet subscribed to it.

Include Preview-Only content

Refine Your Search

Content Type

Article

Chapter

Conference Paper	62,627
Reference Work Entry	1,093
Book	193
Journal	162
Protocol	119

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794,184 Result(s) for 'computer'

Sort By:

Search also matched 2,031,138 preview-only results, e.g.

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Article

Peter Conrady: Lesen und CD-ROM. Untersuchungen zur Mediennutzung von Jugendlichen: Computer statt
gegen Computer?

Heinz Bonfadelli in *Publizistik* (2002)

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Original Research

Multidimensional Feature Selection and High Performance ParalleX

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SN Computer Science (2020) 1:40
 https://doi.org/10.1007/s42979-019-0037-5

ORIGINAL RESEARCH

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SN

Multidimensional Feature Selection and High Performance ParalleX

A tool for detection of informative variables for big data

Karol Niedzielewski¹ · Maciej E. Marchwiany¹ · Radoslaw Piliszek² · Marek Michalewicz¹ · Witold Rudnicki^{1,2,3}

Received: 22 July 2019 / Accepted: 2 September 2019
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Abstract
 Great amount of stored information used in connection with Machine Learning and statistical methods enables high quality insight and analysis of data that leads to design of high precision predictive and classification systems. In the process of analysis, selection of most informative features is crucial for later quality of the designed system. In this report, we propose two implementations of multidimensional feature selection (MDFS) algorithm (Piliszek et al. in Mdfs-multidimensional feature selection. arXiv preprint. arXiv:1811.00631, 2018) that can be used in distributed environments for detection of all-relevant variables in data sets with discrete decision variable. While most methods discard information about interactions between features, MDFS is designed towards identification of informative variables that are not relevant when considered alone but are relevant in groups. We have developed software using C++ and High Performance ParalleX (HPX) (Kaiser et al. in STEJAR-GROUP/hpx: HPX V1.3.0: the C++ Standards library for parallelism and concurrency. 2019. <https://doi.org/10.5281/zenodo.3189323>, 2019) to achieve best performance, great scalability and portability. HPX is a library that uses lightweight threads, asynchronous communication, and asynchronous task submission based on the declarative criteria of work. These features enabled us to deeply explore granularity and parallelism of the MDFS algorithm. Software is prepared entirely in C++; therefore, calculations can be performed using CPUs on desktops, distributed systems, and any system with C++ compiler support. During testing on Cray XC40 (Okeanos) using artificially prepared data, we achieved 196 times acceleration on 256 nodes compared to a single node. From this point, ICM computing facility is capable of massively parallel feature engineering. The main purpose of the software is to enable researchers for more accurate genomics data analysis in search for multiple correlations in potential sources of the diseases.

Keywords Multidimensional feature selection · Mutual information · HPX · Distributed systems · Big data · Genomics

Introduction

Versión online

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 January 2020, 1:40 | Cite as

Multidimensional Feature Selection and High Performance ParalleX

A tool for detection of informative variables for big data

Authors Authors and affiliations

Karol Niedzielewski, Maciej E. Marchwiany, Radoslaw Piliszek, Marek Michalewicz, Witold Rudnicki

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Abstract

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