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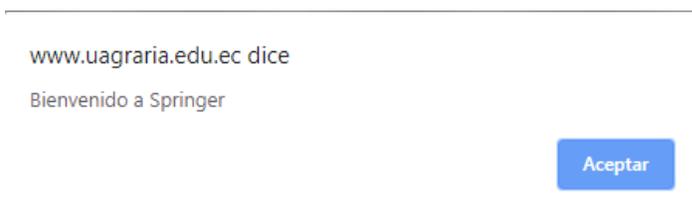
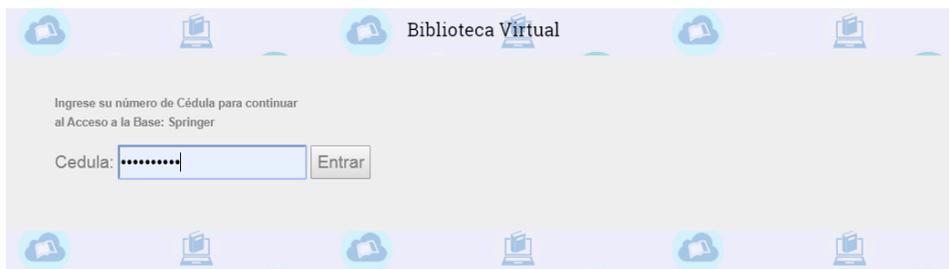


Seleccionar la biblioteca Springer



- Ingresar NÚMERO DE CEDULA (Docente o estudiante)

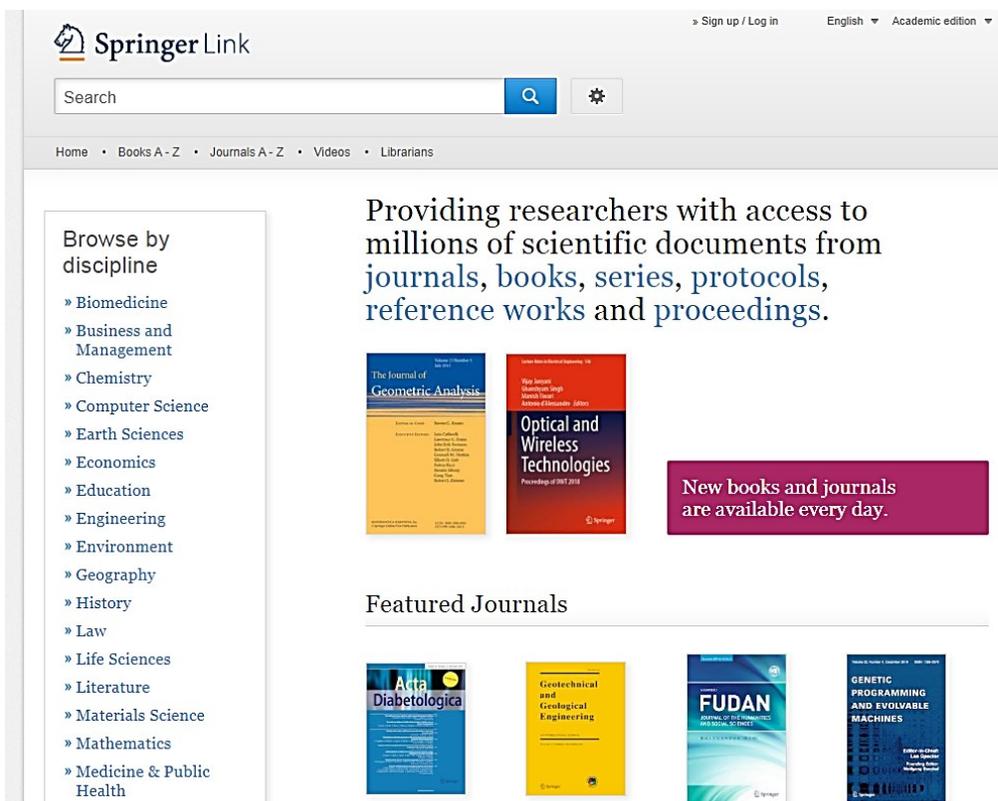
o Sus accesos serán registrados para el informe



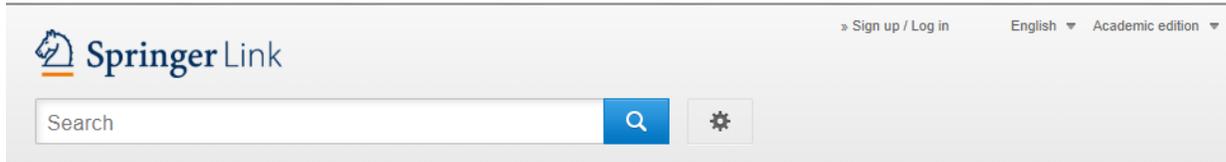
SPRINGER

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

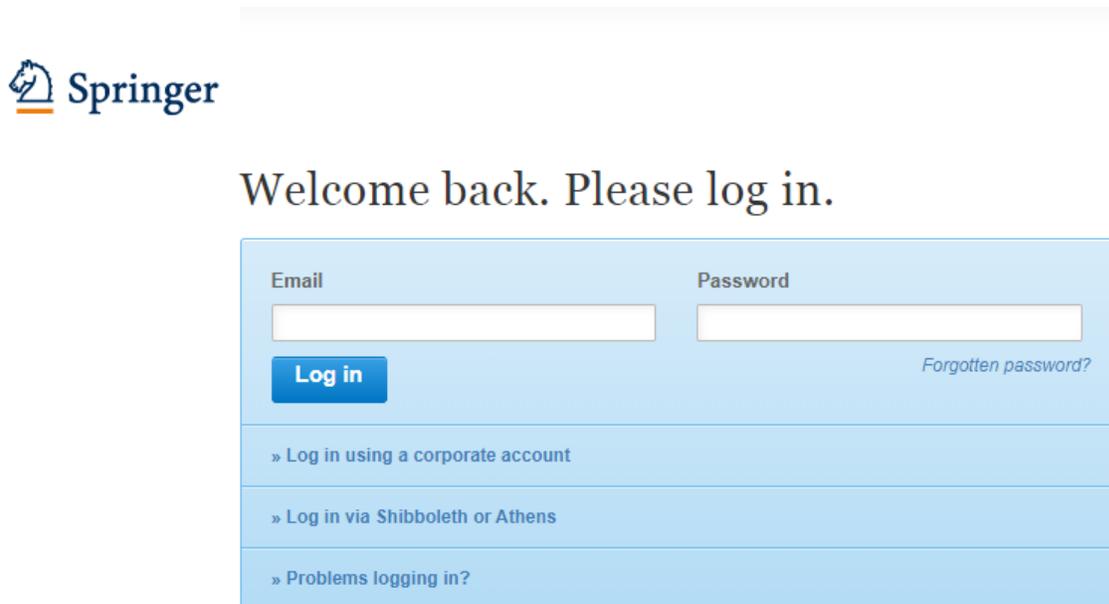
- Para obtener mayores funciones es necesario registrarse en esta biblioteca y luego loguearse.



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



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



O debera de registrarse para obtener el acceso

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

Your Springer account is shared across many Springer sites including SpringerLink, Springer Materials, Adis Insight, and Springer.com.

The image shows the registration form for a Springer account. It consists of several input fields: 'First Name', 'Last Name', 'Email Address', 'Password', and 'Password Confirmation'. Below the email field, there is a note: 'Your email address will be kept private'. At the bottom of the form, there is a password requirement 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 and a magnifying glass icon. Further right is a user profile dropdown menu for "Mario Carrera Masio" with options: "Account details/profile", "Admin Dashboard", "» Athens / Shibboleth login", and "» Logout". To the right of the user menu are language and edition dropdowns for "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 settings gear icon. The results show "2,825,322 Result(s) for 'computer'". Below the search bar is a navigation menu with links: "Home", "Books A - Z", "Journals A - Z", "Videos", "Librarians", and "Admin Dashboard".

Include Preview-Only content

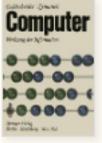
Refine Your Search

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 settings gear icon. The results show "794,184 Result(s) for 'computer'". Below the search bar is a navigation menu with links: "Home", "Books A - Z", "Journals A - Z", "Videos", "Librarians", and "Admin Dashboard".

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:

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Computer
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Article
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Heinz Bonfadelli in *Publizistik* (2002)

Seleccionamos un contenido

Ampliamos la información en el botón (Browse Volumes & Issues)

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SN Computer Science

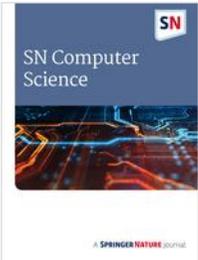
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Original Research

Multidimensional Feature Selection and High Performance ParalleX

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Karol Niedzilewski, Maciej E. Marchwiany, Radoslaw Piliszek...

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

ORIGINAL RESEARCH

Check for updates

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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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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