

# ScienceDirect API program to enhance Institutional Repositories –

## Library connect Krakow

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**Market Development Manager Sharing Platforms**

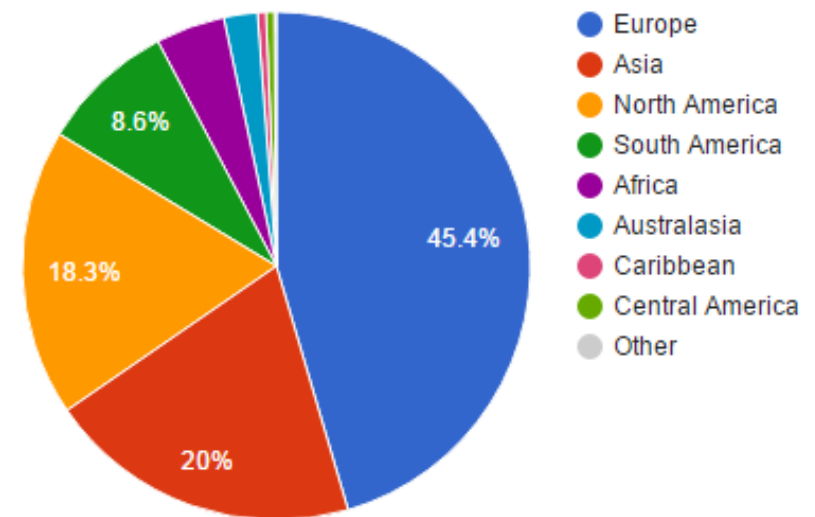
**ScienceDirect Product Management**

**27 September 2016**

## The rise of Institutional Repositories (IR's)

- Total number increases every year
- Will have a significant impact on scholarly communication
- Growth is primarily driven by:
  - Strengthening of national and funder policies that aim to mandate open access (both green and gold)
  - Alignment of repositories with Current Research Information Systems within universities
  - Institutions strive to organize digital resources and use this information to drive strategic decisions

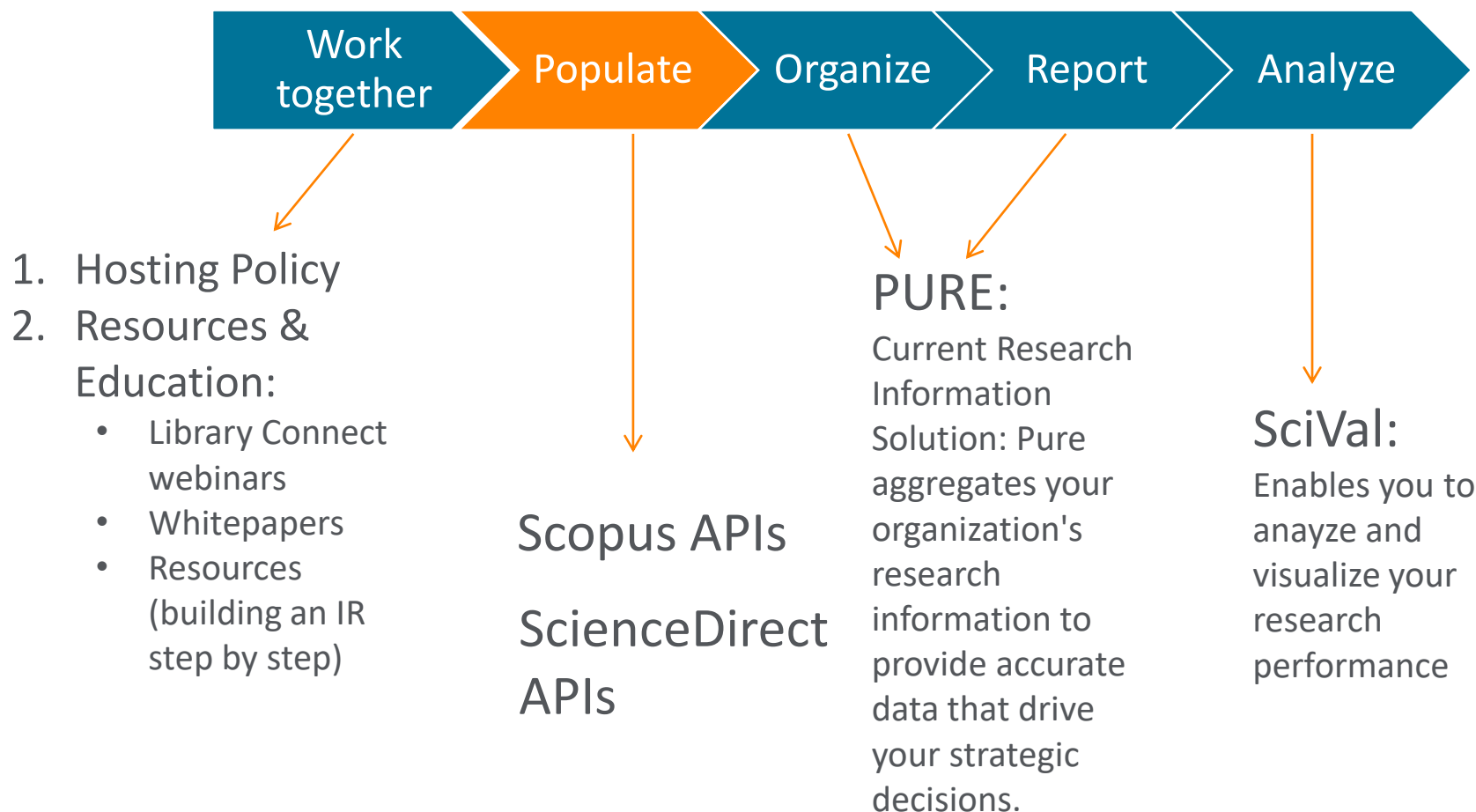
Proportion of Repositories by Continent - Worldwide



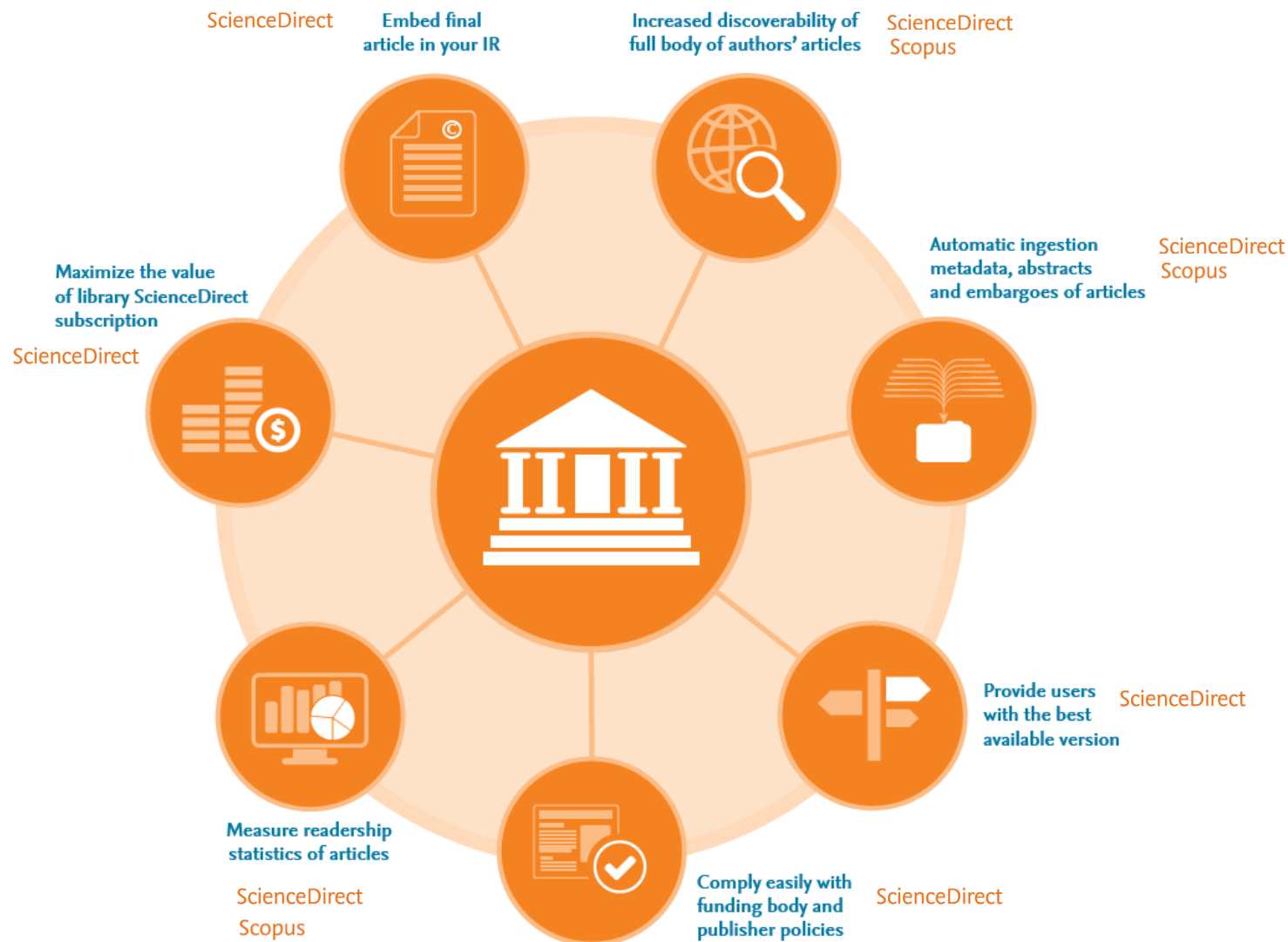
Source: [www.opendoar.org](http://www.opendoar.org)

## Elsevier's services for Institutional Repositories

Our shared goal institutional repositories is to make research better discoverable. Elsevier works together with IRs to develop the infrastructure and services to help make their job easier.



# The benefits of ScienceDirect API services for institutional repositories



For more information on the use case visit:

<https://www.elsevier.com/solutions/sciencedirect/support/institutional-repository>

## Four (4) ScienceDirect APIs to enhance Institutional Repositories

ScienceDirect API	How this program will enhance your IR
1. Search API*	Retrieve metadata and abstracts of articles of your affiliated authors published with Elsevier Journals and create links to article on ScienceDirect or embed final version in your IR
2. Entitlements API**	Indicate to your IR users to the best available version for them: <ol style="list-style-type: none"> <li>1. the open access full text article</li> <li>2. entitled users to the final version on ScienceDirect</li> <li>3. an accepted manuscript hosted on your IR</li> </ol>
3. Hosting permissions API (optional)	Retrieve embargo end dates on the article level to make hosted accepted manuscripts available externally in line with Elseviers' hosting policy
4. Article retrieval API (optional)	Embed the final article in your institutional repository, so users do not leave your IR to find the final version.

### **Notes:**

\*Scopus customers can benefit from the IR program in combination with their Scopus metadata

\*\*The ScienceDirect Entitlements API needs to be implemented, to link entitled users to the final version on ScienceDirect or embedded on the IR, as a minimum part of the program.

**More information our developers portal:**

**[http://dev.elsevier.com/tecdoc\\_sd\\_ir\\_integration.html](http://dev.elsevier.com/tecdoc_sd_ir_integration.html)**

## Case study IR@UF: University of Florida's Institutional Repository

ScienceDirect API services provide metadata, abstracts and link visitors to all open access articles and the best available version for other users: the publisher version or a link to the library for ILL options

The screenshot shows the UFDC search results for 'water'. The page header includes 'UF George A Smathers Libraries' and 'University of Florida Digital Collections'. The search bar shows 'Your search of Elsevier for 'water' anywhere'. The results are displayed in a grid of 8 items, each with a thumbnail, title, and access status. The left sidebar shows filters for Publisher and Subject: Topic.

**Search Results:**

- 1 - 20 of 2103 matching titles
- Sort By: Rank

**NARROW RESULTS BY:**

- Publisher:** Elsevier B.V. (1699), Elsevier Ltd (937), Elsevier Inc. (638), Elsevier GmbH (40), Elsevier Ireland Ltd (22), Elsevier Science Ltd. (22), Mosby, Inc. (19), Elsevier Masson SAS (8), Elsevier Ltd. (7), Elsevier India Pvt Ltd. (4). [Show More >>](#)
- Subject: Topic:** Phosphorus (33), Water quality (19), Groundwater (18), arsenic (16), drinking (16), Water solubility (16), Thirst (15), modeling (14), Angiotensin II (13), Everglades (13). [Show More >>](#)
- Subject: Genre:** serial (1858), article (1619).

**Search Results Grid:**

Thumbnail	Access Status	Title
	Publisher version Check access	The $\alpha 7$ nicotinic receptor agonist 4OH-GTS-21 protects axotomized septohippocampal cholinergic neurons in wild type but not amyloid-overexpressing transgenic mice
	Publisher version Check access	$\alpha 7$ Nicotinic receptor gene delivery into mouse hippocampal neurons leads to functional receptor expression, improved spatial memory-related performance, and tau hyperphosphorylation
	Publisher version You have access	A "blind-folded" test of equilibrium beach profile concepts with New Zealand data
	Publisher version Check access	1 Solar water heating and space heating in Florida
	Publisher version Check access	A 10,300 14C yr Record of
	Publisher version You have access	17 $\beta$ -Estradiol modulates local
	Publisher version Open access	2013 ISES Solar World Congress
	Publisher version Check access	3-Step approach towards

### 3 Response types:

1. You have access
2. Check access
3. Open access

# Case study QSpace: Qatar University's Institutional Repository

ScienceDirect API services provide metadata, abstracts and link visitors to all open access articles and the best available version for other users: the publisher version or a link to the library for ILL options

Qatar University QSpace → Academic → Faculty Contributions → College of Engineering → Civil & Architectural Engineering → View Item

## Comparison of SimTraffic and VISSIM Microscopic Traffic Simulation Tools in Modeling Roundabouts

**Author(s):** Shaaban, Khaled ; Kim, Inhi

**URI:** <http://www.sciencedirect.com/science/article/pii/S1877050915008169> ; <http://hdl.handle.net/10576/4639> ; <http://dx.doi.org/10.1016/j.procs.2015.05.016>

**Date:** 2015-06

**Abstract:**  
Abstract SimTraffic and VISSIM are two microscopic traffic simulation tools that are capable of modeling arterial roads with signalized intersections and roundabouts. This study compares the performance of the two simulation tools in modeling dual lane and triple lane roundabouts under different scenarios such as traffic volume, proportion of left turning movement, and proportion of trucks in the traffic flow. The two simulation tools did not show statistically significant difference in performance. However, in the case of high traffic volumes, VISSIM showed higher average delays than those from SimTraffic. In the case of low traffic volumes, the two simulation tools showed nearly identical results in the case of low traffic volumes.

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**Files in this item**

Name	Size	Format	Description	View/Open
Comparison of SimTraffic and VISSIM Microscopic Traffic Simulation Tools in Modeling Roundabouts	350.6Kb	PDF	Version of Record-Open ...	<a href="#">View/Open</a>

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1. Publisher version of the article embedded in the IR

2. Locally hosted manuscript version hosted in the IR

Visit example at Qspace: <http://qspace.qu.edu.qa/handle/10576/4639>

## New pilot: Online reading version of Accepted Manuscripts embedded in Institutional repositories (available from fall 2016)

An online reading version of the author accepted manuscript hosted on a ScienceDirect platform will be embedded for unentitled users after the embargo has ended.

The screenshot displays a DSpace Repository interface. At the top, the DSpace logo and name are visible, along with a 'Login' link. Below this is a breadcrumb trail: 'DSpace Home → Community 1 → Collection 1 → 123456789/16 → Elsevier embed page'. The main content area is divided into two sections. The top section, titled 'ELSEVIER OPEN MANUSCRIPT', contains links for 'License information', 'How to cite', 'About Open Accepted Manuscripts', and 'Go to final version'. The bottom section, titled 'An adaptive procedure for the numerical parameters of a particle simulation', lists the authors 'Cyril Galitzine <sup>□,\*</sup>, Iain D. Boyd' and their affiliation 'University of Michigan, Department of Aerospace Engineering, Ann Arbor, MI 48109, United States'. The 'Abstract' section begins with the text: 'In this article, a computational procedure that automatically determines the optimum time step, cell weight and species weights for steady-state multi-species DSMC (direct simulation Monte Carlo) simulations is presented. The time step is required to satisfy the basic requirements of the DSMC method while the weight and relative weights fields are chosen so as to obtain a user-specified average number of particles in all cells of the domain. The procedure allows the conduct of efficient DSMC simulations with minimal user input and is integrable into existing DSMC codes. The adaptive method is used to simulate a test case consisting of two counterflowing jets at a Knudsen number of 0.015. Large accuracy gains for sampled number densities and velocities over a standard simulation approach for the same number of particles are observed.' On the right side of the page, there is a 'Search DSpace' section with a search box and a 'Go' button, and a 'Browse' section with links for 'All of DSpace' and 'This Collection', each with sub-links for 'Communities & Collections', 'By Issue Date', 'Authors', 'Titles', and 'Subjects'. At the bottom right, there is a 'My Account' section with links for 'Login' and 'Register'. The footer of the page includes the text 'Theme by @MIRE' and a logo.

DSpace Repository

DSpace Home → Community 1 → Collection 1 → 123456789/16 → Elsevier embed page

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### An adaptive procedure for the numerical parameters of a particle simulation

Cyril Galitzine <sup>□,\*</sup>, Iain D. Boyd

University of Michigan, Department of Aerospace Engineering, Ann Arbor, MI 48109, United States

#### Abstract

In this article, a computational procedure that automatically determines the optimum time step, cell weight and species weights for steady-state multi-species DSMC (direct simulation Monte Carlo) simulations is presented. The time step is required to satisfy the basic requirements of the DSMC method while the weight and relative weights fields are chosen so as to obtain a user-specified average number of particles in all cells of the domain. The procedure allows the conduct of efficient DSMC simulations with minimal user input and is integrable into existing DSMC codes. The adaptive method is used to simulate a test case consisting of two counterflowing jets at a Knudsen number of 0.015. Large accuracy gains for sampled number densities and velocities over a standard simulation approach for the same number of particles are observed.

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Theme by @MIRE



## Interested to participate? These are the requirements and next steps:

### Prerequisites

- Your institution does not have to subscribe to ScienceDirect or any other Elsevier service to participate in the SD API program;
- There is no cost involved for the institution.

### Next steps

1. Register your interest on our webpage:  
<https://www.elsevier.com/solutions/sciencedirect/support/institutional-repository>
2. Register for an API key and accept the terms and conditions  
<https://dev.elsevier.com/user/login>
3. Develop software in line with the developers instructions that can be found on our developers portal  
[http://dev.elsevier.com/tecdoc\\_sd\\_ir\\_integration.html](http://dev.elsevier.com/tecdoc_sd_ir_integration.html).

## Contact details

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