

1 9 8 7 - 2 0 1 7

CIMNE^R

EXCELLENT SCIENCE WITH AND FOR ALL:
THE CASE OF CIMNE

Cecilia Soriano

PhD Physics

Research Manager

Coordinator of the UNESCO Chair in Numerical Methods in Engineering



Organització de les Nacions
Unides per a la Educació



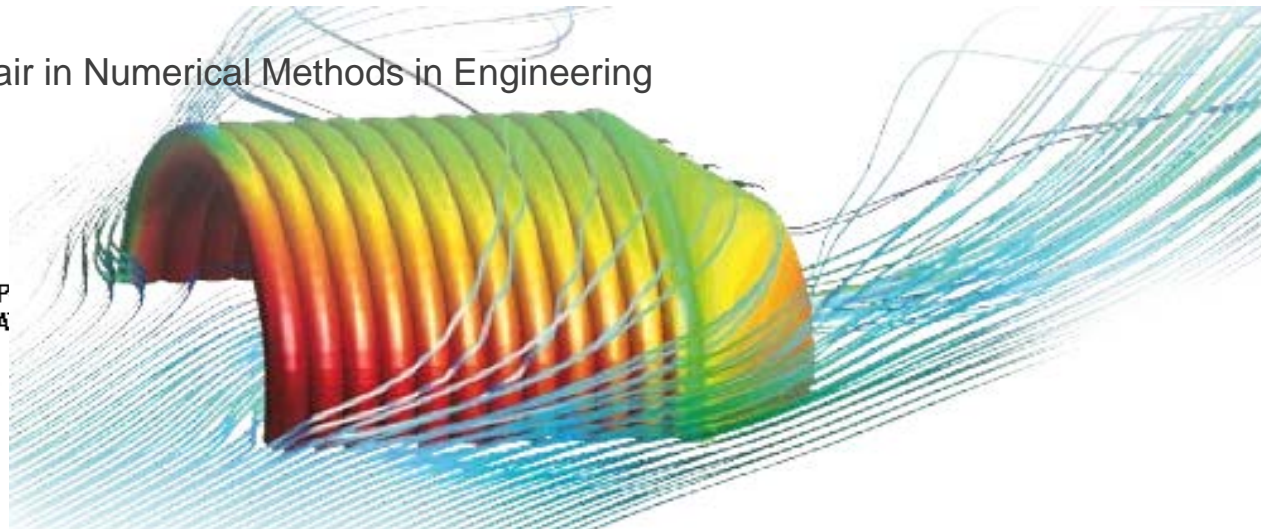
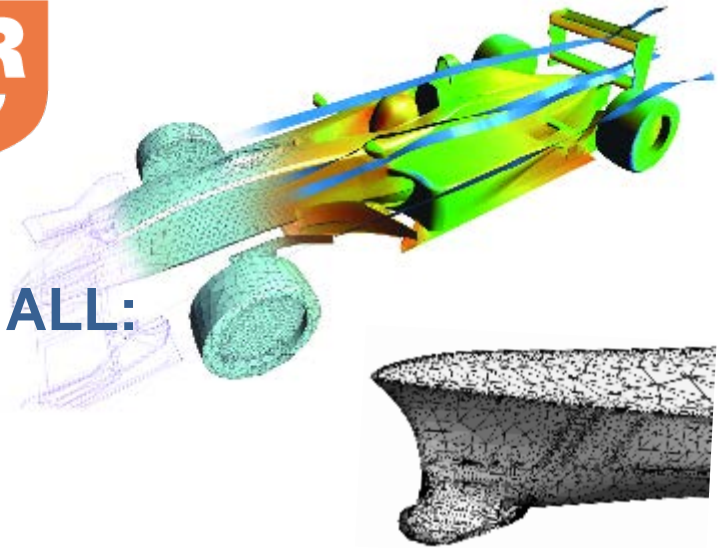
Universitat P
BARCELONA

Càtedra UNESCO de Mètodes
Numèrics en Enginyeria



PROGRAMA SOBRE CIENCIA ABIERTA Y GESTIÓN DE DATOS DE INVESTIGACIÓN

Barcelona, Spain, 3th July 2018



International Center for Numerical Methods in Engineering

CIMNE[®]

1 9 8 7 - 2 0 1 7

30 years

**generating
knowledge and solutions**

OUTLINE

- **CIMNE**
- **WE ARE COMPUTATIONAL ENGINEERING / MECHANICS**

- Where can I meet my colleagues?
- Where can I publish my research?
- How can we make our discipline strong?
- How our codes / solvers can have a higher impact?



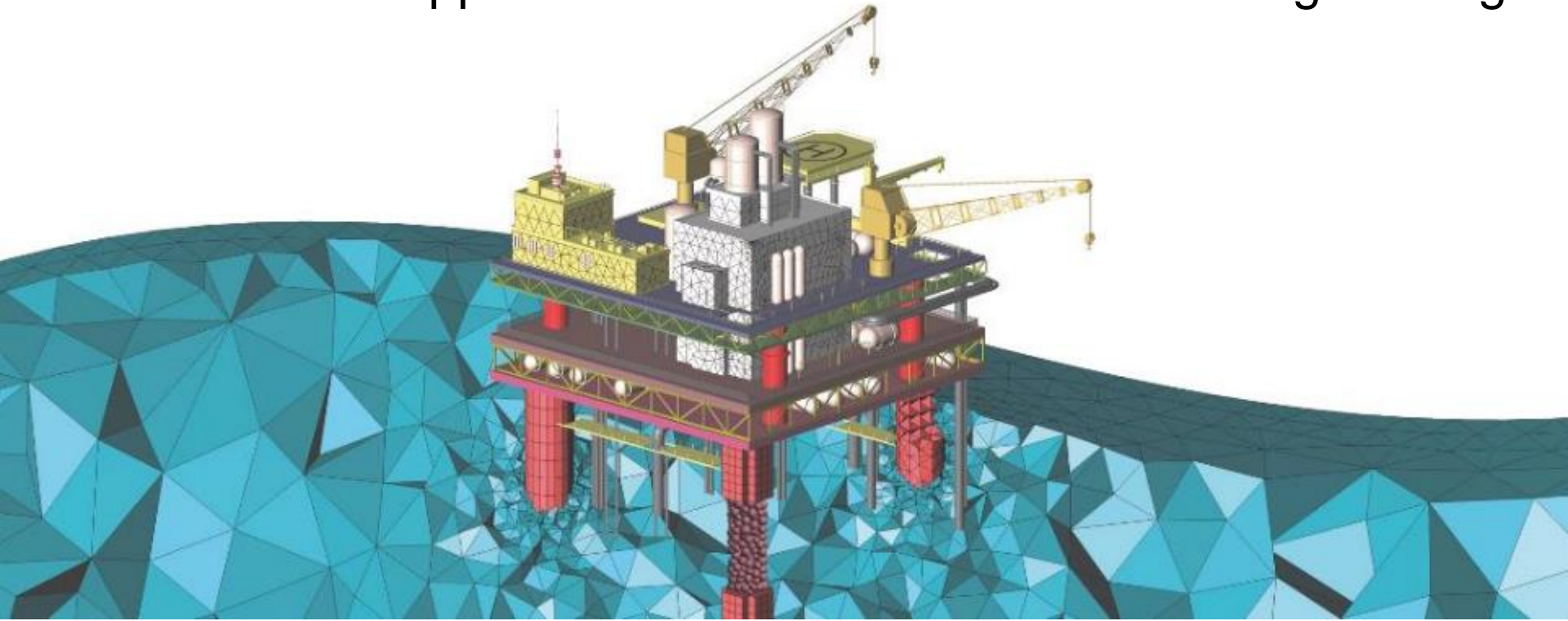
- How can we make all our knowledge available to the world?



- **OUR OPEN SCIENCE PLATFORM**

SCIPEDIA

Public R+D center in computational mechanics created in 1987, with a strong focus on research, knowledge transfer, dissemination and application of numerical methods in engineering.



A Consortium of:



Generalitat
de Catalunya



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

In cooperation with:



OUR MISSION

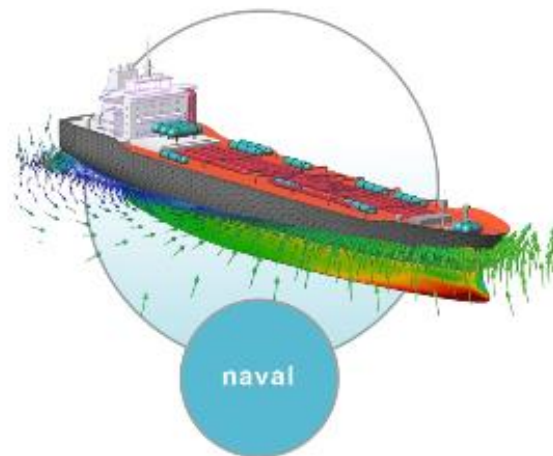
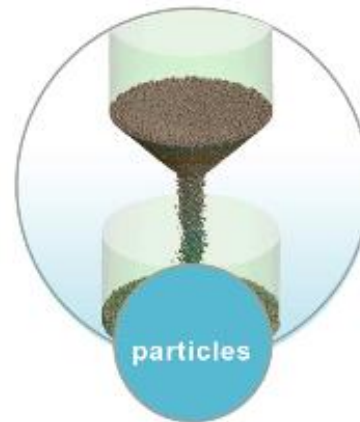
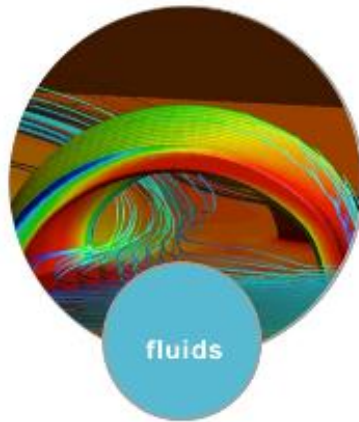
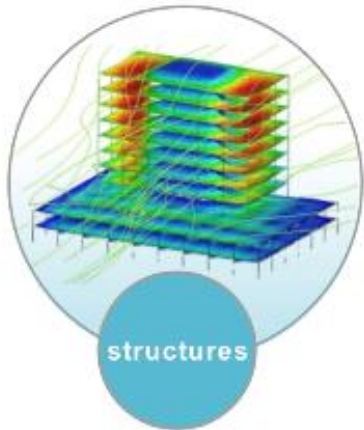
Research

Education

Dissemination

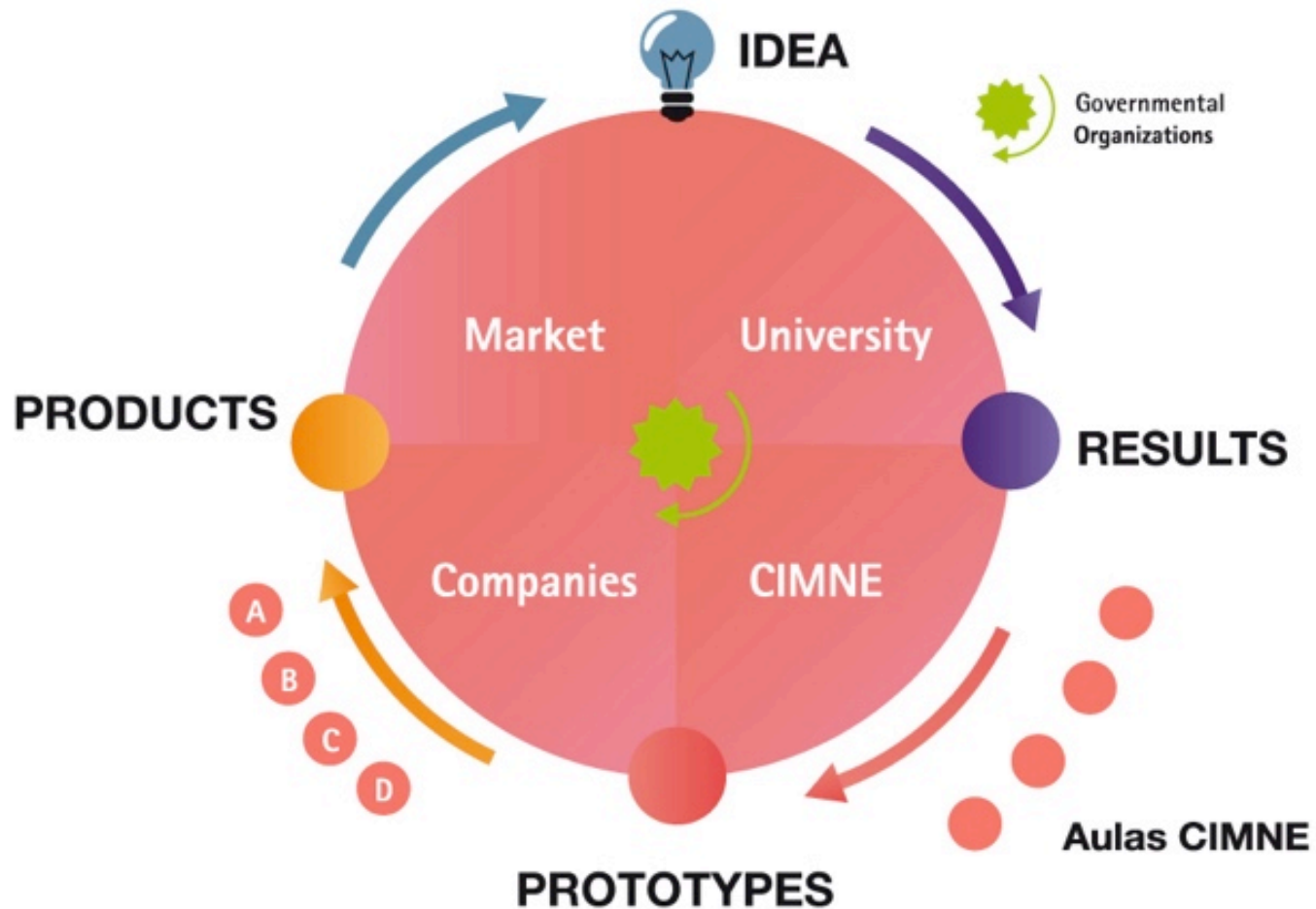
Technology Transfer

IN THE FIELD OF COMPUTATIONAL ENGINEERING



FROM THE IDEA TO THE MARKET

THE CYCLE OF IDEAS



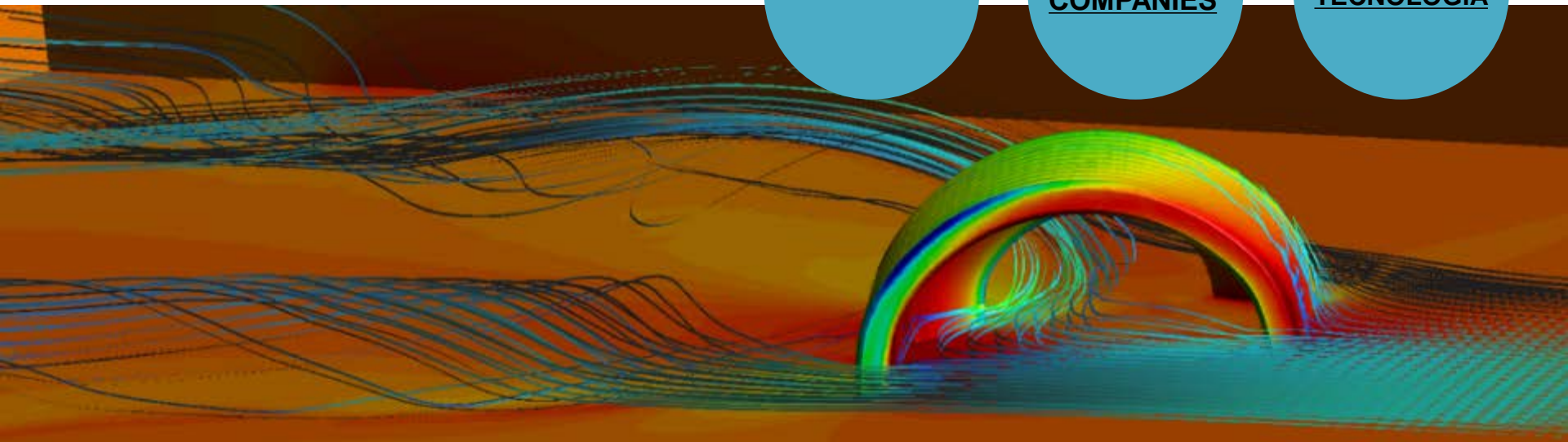
TECHNOLOGY TRANSFER

- A vocation for Technology Transfer since 1987.
- Creation of CIMNE Tecnología, SA. (2011), a company 100% owned by CIMNE, in charge of the technology transfer of CIMNE outputs.
- 16 spin-off companies.

PRODUCTS

**SPIN-OFF
COMPANIES**

**CIMNE
TECNOLOGÍA**



BEFORE 2011

Created in 2001

SOLUCIONES INTEGRALES DE FORMACIÓN Y GESTIÓN STRUCTURALIA, SA



E-Training and consulting activities in civil engineering. It was sold in 2011 to The Washington

Post Group.

Created in 2002

COMPASS INGENIERÍA Y SISTEMAS, SA



Applications of numerical methods in civil, naval and maritime engineering.

CIMNE owns 24% of COMPASS.

Created in 2006

INGENIA IAE



It promotes the participation of its members in projects of aeronautics and the space field.

It is formed by several companies and CIMNE.

CIMNE TECNOLOGÍA



Created in 2011, the company is owned by CIMNE aiming to industrialize and market the outputs of CIMNE research.



BIOMECHANICS DEVELOPMENTS, SL

Software solutions and services in biomedical field.

50% owned by CIMNE Tecnología.



BUILDAIR INGENIERÍA Y ARQUITECTURA, SA

Inflatables structures for engineering and architecture applications.

5% owned by CIMNE Tecnología.



COMPUTATIONAL AND INFORMATION TECHNOLOGIES, SA

Computational methods and information technology systems in engineering.

100% owned by CIMNE Tecnología.



FRESH WATER NATURE, SL

Solutions for obtaining fresh water from desalination and distillation of waste water.

100% owned by CIMNE Tecnología.



HEALTHAPP, SL

Software to treat eating disorders. It improves the links therapist / patient.

15% owned by CIMNE Tecnología.

RSM GASSÓ CIMNE ENERGY, SL

Advanced engineering energy services. 50% owned by Servicios Energéticos Avanzados, which is **100% owned by CIMNE Tecnología.**



INLOC ROBOTICS, SL

Positioning and navigation solutions for mobile robots in buried environments.

5% owned by CIMNE Tecnología since 2015.



LYNCOS TECHNOLOGIES, SL

Software and systems for the Internet of Things.

15% owned by CIMNE Tecnología.

PORTABLE MULTIMEDIA SOLUTIONS, SL

Mobile pavilions with multimedia technology for leisure, sport and events.

20% owned by CIMNE Tecnología.



PNEUMATIC STRUCTURES TECHNOLOGIES, SL

Pneumatic structures for a wide range of engineering problems.

10% owned by CIMNE Tecnología.



Free publishing and open access for scientific publications.

16,67% owned by CIMNE Tecnología.



Information systems for leisure sectors (tourism, music...).

100% owned by CIMNE Tecnología.



CIMNE tecnología s.a.

CIMNE IN NUMBERS

ACTIVITIES	2016
Postgraduate Studies	4
Conferences	4
Seminars	23
Courses	9
Coffee Talks	11
Publications	118
Books	1
Monographs	15
Research Reports	1
Papers in Journals	101
Spin-off Companies	16
Aulas CIMNE	30
Patents	0 (5)
Contracts with Industry	56 (98)
Competitive Projects	26 (86)
National Projects	13 (40)
International Projects	13 (46)

In brackets, the total number of on-going contracts and RTD projects.

STAFF / POSITION TITLE	2016
Management Staff	3
Administration Staff	39
Research Staff	95
Full Research Professors	29
Associate Research Professors	15
Assistant Research Professors	12
Staff Scientists	7
Post Docs	32
Research Engineers	63
Research Students	95
PhD Students	62
Master Students	30
Ungraduate Students	3
TOTAL Staff	295

About 200 scientists work at CIMNE.

CIMNE IN THE WORLD



30 AULAS CIMNE
in Spain and Latin America



WE ARE COMPUTATIONAL ENGINEERING /
MECHANICS



Where can I meet my colleagues?

INTERNATIONAL CONFERENCES

CIMNE CONGRESS BUREAU 2017/2018

<http://congress.cimne.com/web/>

ECCOMAS CONFERENCES 2017

 <p>MARINE 2017 VI International Conference on Computational Methods in Marine Engineering</p> <p>14-17 May 2017, Tarragona, Spain</p>	 <p>CM3 - Computation and Big Data in Transport Research in Transport Modelling and Simulation</p> <p>22-24 May 2017, Tarragona, Spain</p>	 <p>SMART 2017 IX ECCOMAS Thematic Conference on Smart Structures and Materials</p> <p>5-8 June 2017, Tarragona, Spain</p>	 <p>COUPLED PROBLEMS 2017 VI International Conference on Coupled Problems in Solids and Engineering</p> <p>12-14 June 2017, Tarragona, Spain</p>	 <p>ADMOS 2017 International Conference on Adaptive Modeling and Simulation</p> <p>26-28 June 2017, Tarragona, Spain</p>	 <p>COMPLAS 2017 XIV International Conference on Computational Plasticity: Fundamentals and Applications</p> <p>5-7 Sept. 2017, Tarragona, Spain</p>	 <p>IGA 2017 V International Conference on Inverse Geometric Analysis</p> <p>11-13 Sept. 2017, Tarragona, Spain</p>	 <p>PARTICLES 2017 VI International Conference on Particle-based Methods: Fundamentals and Applications</p> <p>26-28 Sept. 2017, Tarragona, Spain</p>	 <p>STRUCTURAL MEMBRANES 2017 XIV International Conference on Thermo-Composites and Inflatable Structures</p> <p>9-11 Oct. 2017, Tarragona, Spain</p>
<p><u>MARINE</u> 14/17 May 2017</p>	<p><u>CM3</u> 22/24 May 2017</p>	<p><u>SMART</u> 5/8 June 2017</p>	<p><u>COUPLED PROBLEMS</u> 12/14 June 2017</p>	<p><u>ADMOS</u> 26/28 June 2017</p>	<p><u>COMPLAS</u> 5/7 Sept. 2017</p>	<p><u>IGA</u> 11/13 Sept. 2017</p>	<p><u>PARTICLES</u> 26/28 Sept. 2017</p>	<p><u>STRUCTURAL MEMBRANES</u> 9/11 Oct. 2017</p>

OTHER INTERNATIONAL CONFERENCES AND WORKSHOPS



How can we make our discipline strong?



Sociedad Española de Métodos Numéricos en Ingeniería

CIMNE holds the General Secretariat of the Spanish Association for Numerical Methods in Engineering.



International Association For Computational Mechanics

CIMNE holds the General Secretariat of the International Association for Computational Mechanics.



European Community on Computational Methods in Applied Sciences

CIMNE holds the Secretariat of the European Community on Computational Methods in Applied Sciences.



European Research Community On Flow, Turbulence And Combustion

CIMNE is a Pilot Centre for the European Research Community in Flow, Turbulence and Combustion. ERCOFTAC Spanish Pilot Centre.



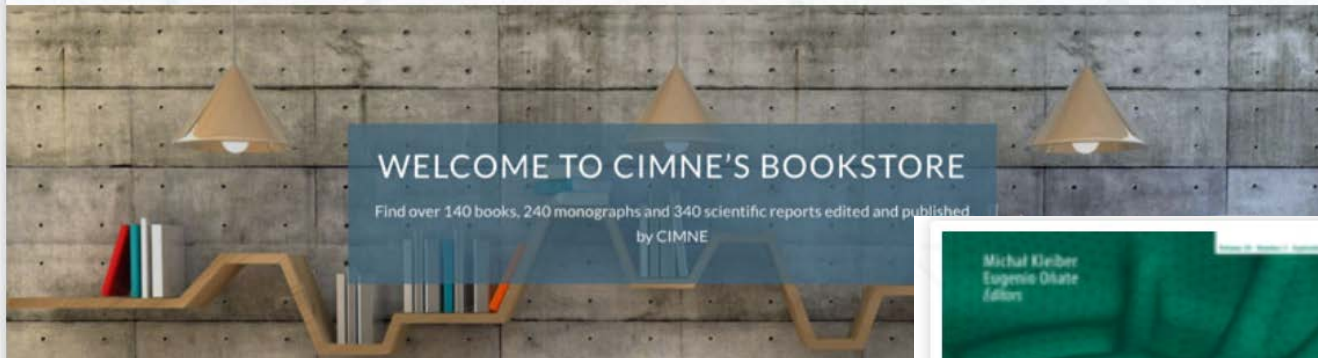
International Association of CIMNE Classrooms

The International Association of CIMNE Classrooms is a non-governmental civil non-profit organization which aims to promote the advancement of numerical methods in a common academic space.

Where can I publish my research?

BOOKS, JOURNALS, MONOGRAPHS, SCIENTIFIC REPORTS AND
EDUCATIONAL SOFTWARE ,

CIMNE, with a long tradition as a book publisher, goes one step further in its quest for scientific outreach and has launched its own bookstore. From [CIMNE bookstore](#) it can be purchased books, monographs, scientific reports and educational software on the theory and applications of numerical methods in engineering and applied sciences.



Archives of Computational
Methods in Engineering



Revista Internacional
Métodos Numéricos para
Cálculo y Diseño en
Ingeniería



How our codes / solvers can have a higher impact?



<http://www.cimne.com/kratos/>

Open Source, Parallel, Multi-physics, CFD, Thermal problems, Structural dynamics, Flexibility, Particle Problems, Linear Solvers Libraries...

Visit our GitHub project



HOME
all starts here

ABOUT KRATOS
everything about kratos

CAPABILITIES
all the different stuff

GALLERY
work we are proud of



1 Multi-physics
Wide range of finite element applications!

2 Open Source
Freedom and Innovation

3 Parallel HPC
Solve big problems!

4 Flexibility
Industrial or academic applications

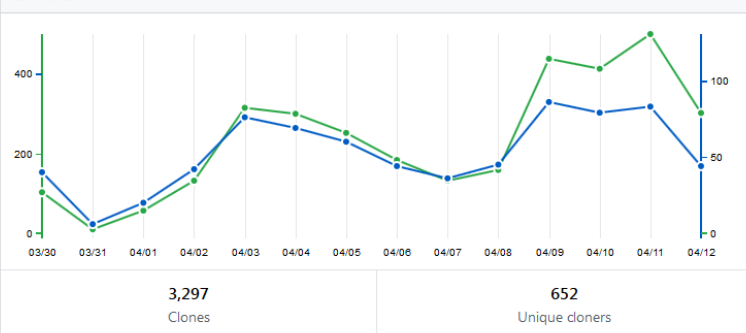


KratosMultiphysics

<http://www.cimne.com/kratos/>

Repositories 4 **People** 76 **Teams** 30 **Projects** 0 **Settings**

Git clones



How can we make all our knowledge available to the world?

OUR OPEN SCIENCE PLATFORM



Your Open Science and
Research Publishing Platform





Scipedia is an innovative Open Science platform that essentially integrates an advanced online publishing and data management platform with a collaborative social network for researchers and scientific institutions

<https://www.scipedia.com>

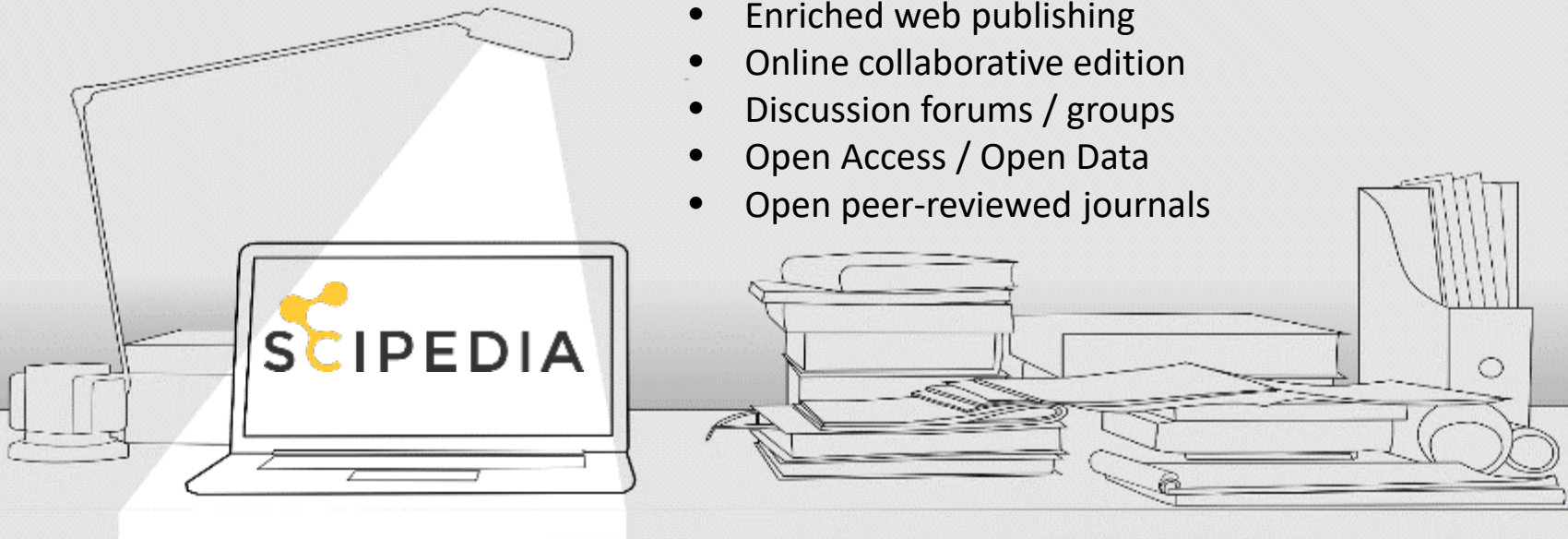
What can Scipedia offer ...

... to researchers?

... to Open Access journals?

... to institutions?

- Personal / project / community profile
- Thematic / personal / project repositories
- Enriched web publishing
- Online collaborative edition
- Discussion forums / groups
- Open Access / Open Data
- Open peer-reviewed journals



What can Scipedia offer to researchers?

The screenshot shows a web browser window displaying the Scipedia profile of Eugenio Oñate. The browser's address bar shows the URL <https://www.scipedia.com/profile/onate>. The page header includes the Scipedia logo and navigation links: Profile, Library, My network, Groups, and Help. A search bar is also present. The profile section features a profile picture of Eugenio Oñate, his name, a sun icon, and the number 179. Below this, it lists his title as Director at the International Centre for Numerical Methods in Engineering, Universitat Politècnica de Catalunya - BarcelonaTech. A yellow button labeled 'CREATE A DOCUMENT' is visible. The main content area has a navigation bar with tabs: Activity, Profile, My publications, Experience, and Analytics. The 'Profile' tab is selected. On the left, there is a 'SEND A MESSAGE' section with a text input field and a 'POST' button. Below this, a list of publications is shown under the 'Mine' tab, including titles like 'Analysis of the discharge capacity of radial gated spillways using numerical modelling application to Ollana dam' and 'Modelling and simulation of the effect of blast loading on structures using and adaptive blending of discrete and finite element methods'. On the right, a 'PROFILE STRENGTH' section shows a progress bar at 89%. Below that, a message states 'YOUR PROFILE IS COMPLETED' with a green checkmark. Further down, an 'INFORMATION' section lists options like 'Submit your paper', 'Become a publication editor', 'Open access', and 'Contact us'. At the bottom, a 'COLLEAGUES' section includes an 'INVITE COLLEAGUES' button and a list of colleagues following the user, such as Mariano Padilla and Eugenio Muttio.

- **Personal profile**
 - Overview
 - Publications
 - Experience, skills
 - Google Scholar link
- **Activity panel and messaging tools**
 - Public
 - Followers
 - Groups
- **Personal repositories**
- **Analytics**

What can Scipedia offer ...

... to researchers?

The screenshot shows a web browser window displaying a Scipedia profile page for 'Eugenio Oñate's Research Reports'. The browser's address bar shows the URL 'https://www.scipedia.com/sj/eorr#'. The page features a header with the Scipedia logo and navigation links. Below the header is a banner image. The main content area includes a section titled 'Eugenio Oñate's Research Reports' with a description. To the right of this section is a statistics table. Below the main content is a search bar and a list of publications. The right sidebar contains sections for 'EDITORS', 'INFORMATION', and a 'PLATFORM FOR AIRCRAFT DRAG REDUCTION INNOVATION' banner.

DOCUMENTS	58
VIEWS	1568
SCORE	5
SCORE PERCENTILE	10

Published on 01/01/17

Advances in the DEM and coupled DEM and FEM techniques in non linear solid mechanics

Eugenio Oñate , F. Zárate , M.A. Celligueta , J.M. González , J. Miquel , J.M. Carbonell , F. Arnufat , S. Latorre , M. Santasusana

Abstract

In this chapter we present recent advances in the Discrete Element Method (DEM) and in the coupling of the DEM with the Finite Element Method (FEM) for solving a variety of problems in non linear solid mechanics involving damage, plasticity and multifracture situations.

0

READ EDIT

Published on 01/01/14

Unified Updated Lagrangian Formulation for the Analysis of Quasi and Fully Incompressible Fluids and Solids and their Interaction via a Partitioned Scheme and the PFEM

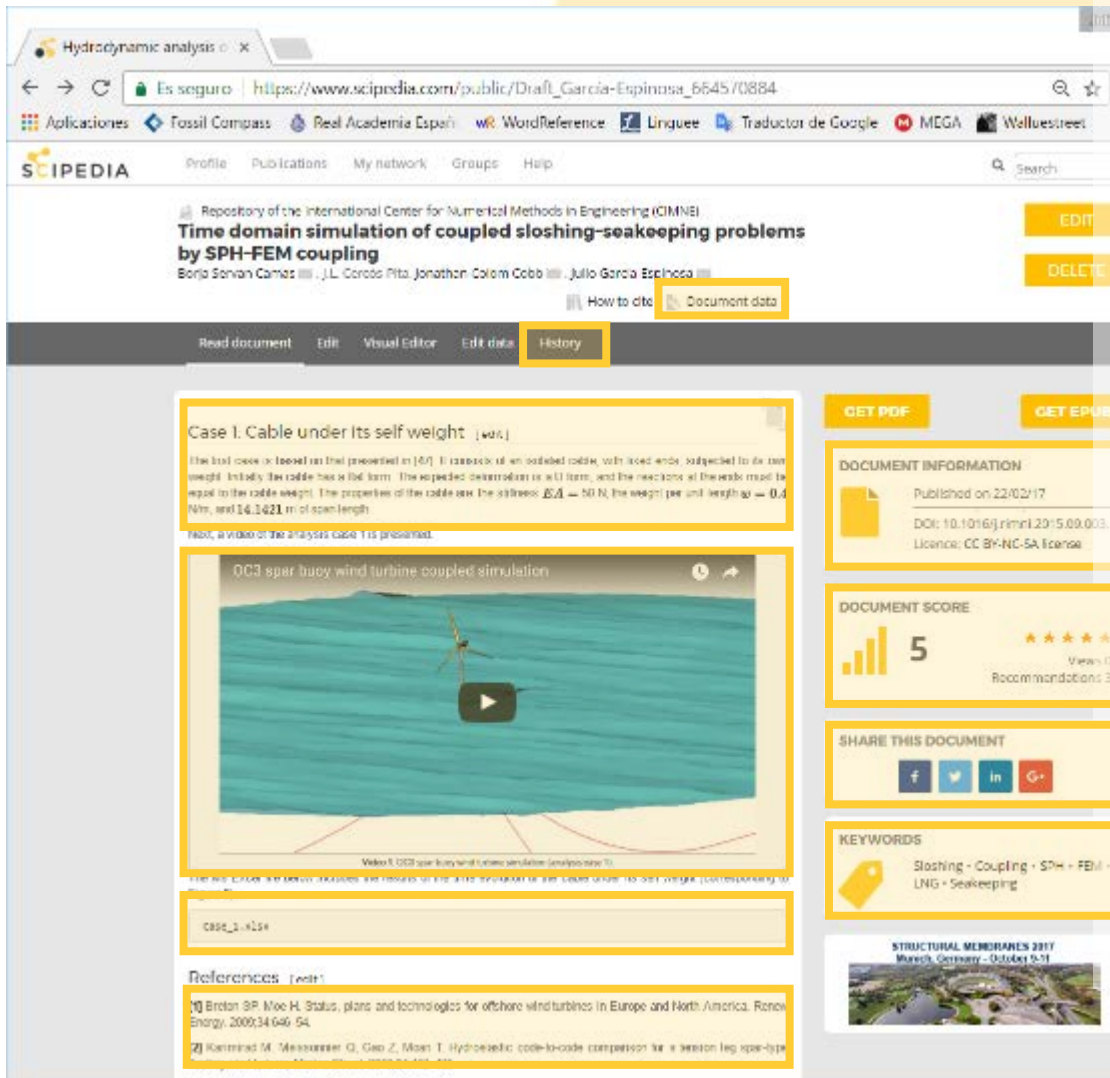
A. Fernández-Oñate, J.M. Carbonell

PLATFORM FOR AIRCRAFT DRAG REDUCTION INNOVATION

November 28 - December 1, 2017

- **Personal / thematic repositories for self-archiving:**
 - Papers (preprints, ...)
 - Research reports
 - Monographs
 - ...
- **Customized page**
 - URL
 - Title and banner
 - About and info
 - Statistics
- **Search tools**
- **Indexing support (metadata)**

What can Scipedia offer to researchers?



- **Enriched web format + online editor:**
 - text, references, links
 - Datasets,
 - video
 - ...
- **Online (collaborative) edition**
- **Linked to authors/inst. profile**
- **Information**
 - Indexing support (metadata)
 - Keywords (tags)
 - Categories
 - DOI and doc. info
 - Licence
- **Other utilities:**
 - Export to PDF and EPUB
 - Discussion forum
 - Revisions history
 - Share this document
 - Document score
 - Views / recommend.

... to researchers?

Every document has a discussion forum (for authors and registered users)

... to researchers?

every document has a discussion forum (for authors and registered users)

Discusser: Prof. Sergio Idelsohn
Julio Garcia-Espinoso 1811
International Centre for Numerical Methods in Engineering
337 days ago
Sergio Idelsohn, ICREA Research Professor
International Center for Numerical Methods in Engineering
The article describes the application of the method by a single vessel.
PFEM is a Lagrangian method based on particle streamlines. The particles have no mass associated. The advantage of such methods is the ease way particle velocities and the inertia forces of the spray.
In fact, the phenomenon of the spray comes from the interaction of the water and air viscosities together with the surface tension.

Abstract
The macroscale mechanical behaviour of crystalline materials, such as polycrystalline metals and single crystal semiconductors, is dictated by the anisotropic behaviour of individual crystals/grains and their interactions with neighboring crystals or other materials. Furthermore, the elastic-plastic response of individual crystals is associated with the underlying atomic lattice structure and phenomena of dislocation glide on the slip systems and dislocation multiplication and interactions. As a result, microstructural characteristics such as grain size, shape, and orientation, have a significant effect on the macroscale mechanical properties and performance. Moreover, these microstructural features are strongly affected by the thermal-mechanical process used to create a part. Because of this, tremendous effort has been made to develop crystal plasticity models that explicitly model the crystal (grain) scale behavior to predict the local macroscale response.
In this talk, a framework for computational modelling of discretized single or polycrystalline grain structures subjected to thermal-mechanical loading conditions is presented. The model is general for finite deformations with the crystal plasticity model based on dislocation motion and interactions. A parallel finite element implementation is briefly described. Then, applications including predicting microstructure evolution during large deformation processing, fatigue crack initiation, and defect formation during single crystal AIN crystal growth will be presented.

Recording of the presentation
Antoinette M. Maniatty, "Computational Crystal Plasticity for the D...
Crystal Scale Model"
Location: Technical University of Catalonia (UPC), Vertex Building.
Date: 1 - 3 September 2015, Barcelona, Spain.

ARCHIVE ALL YOUR WORK
(presentations, conference or seminar videos, data, ...)

A few examples of capabilities

1. EMBEDDED VIDEO:

https://www.scipedia.com/public/Garc%C3%ADa-Espinoza_et_al_2016a

2. EMBEDDED VIDEO & EXCEL data:

https://www.scipedia.com/public/Guti%C3%A9rrez_Romero_et_al_2017a

3. COLLECTION of VIDEOS of presentations from a conference (Complas XIII)

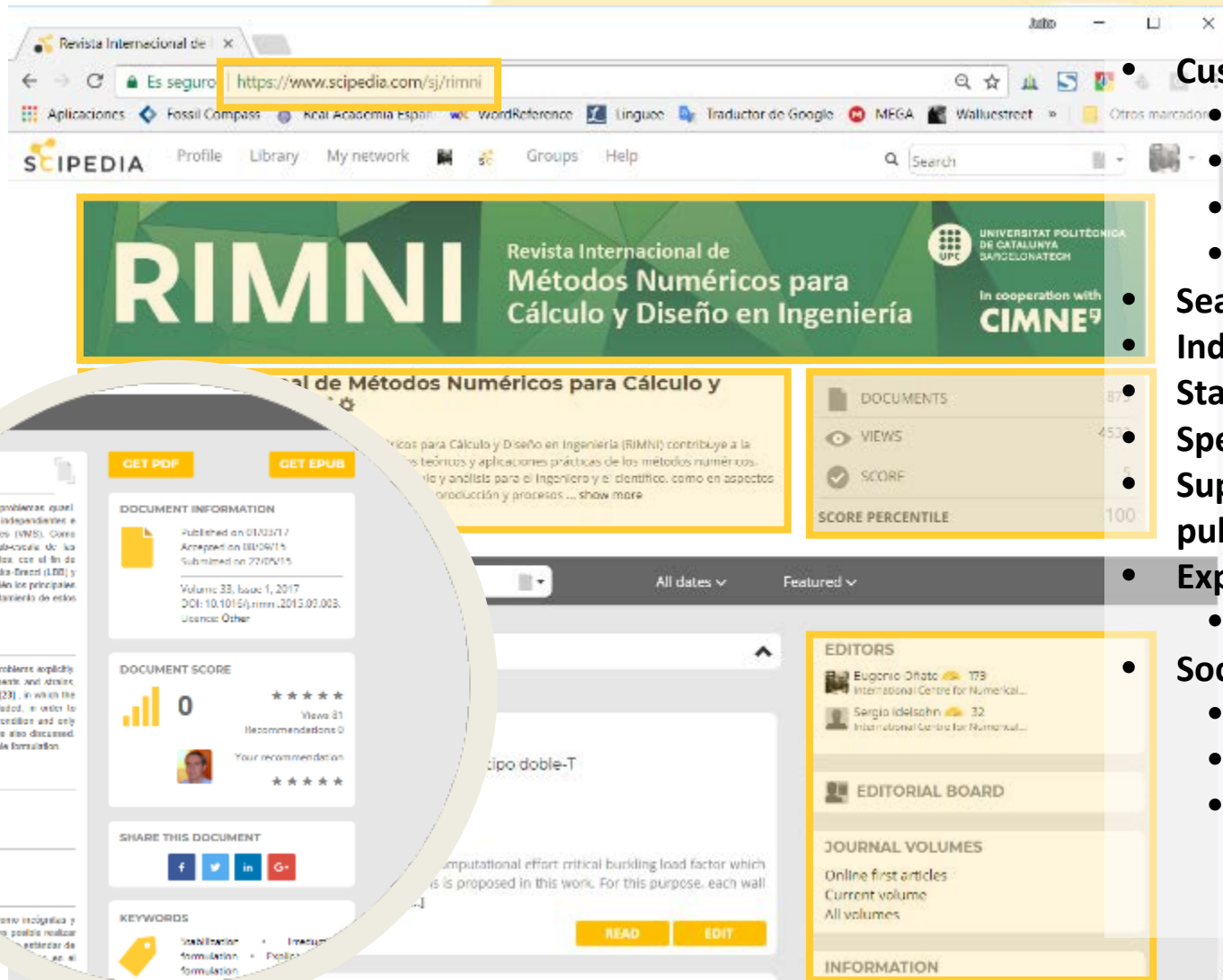
<https://www.scipedia.com/sj/complaxiii>

4. INCLUDES PPT, PDF and Prezi Presentations

<https://www.scipedia.com/sj/jgecp>

What can Scipedia offer ...

... to Open Access journals?



• Customized homepage

- URL
- Title, banner, about
- Journal / authors info
- ...

• Search tools

• Indexing support (metadata)

• Statistics (altmetrics)

• Specialized editorial support

• Supports enriched web publishing

• Export tools

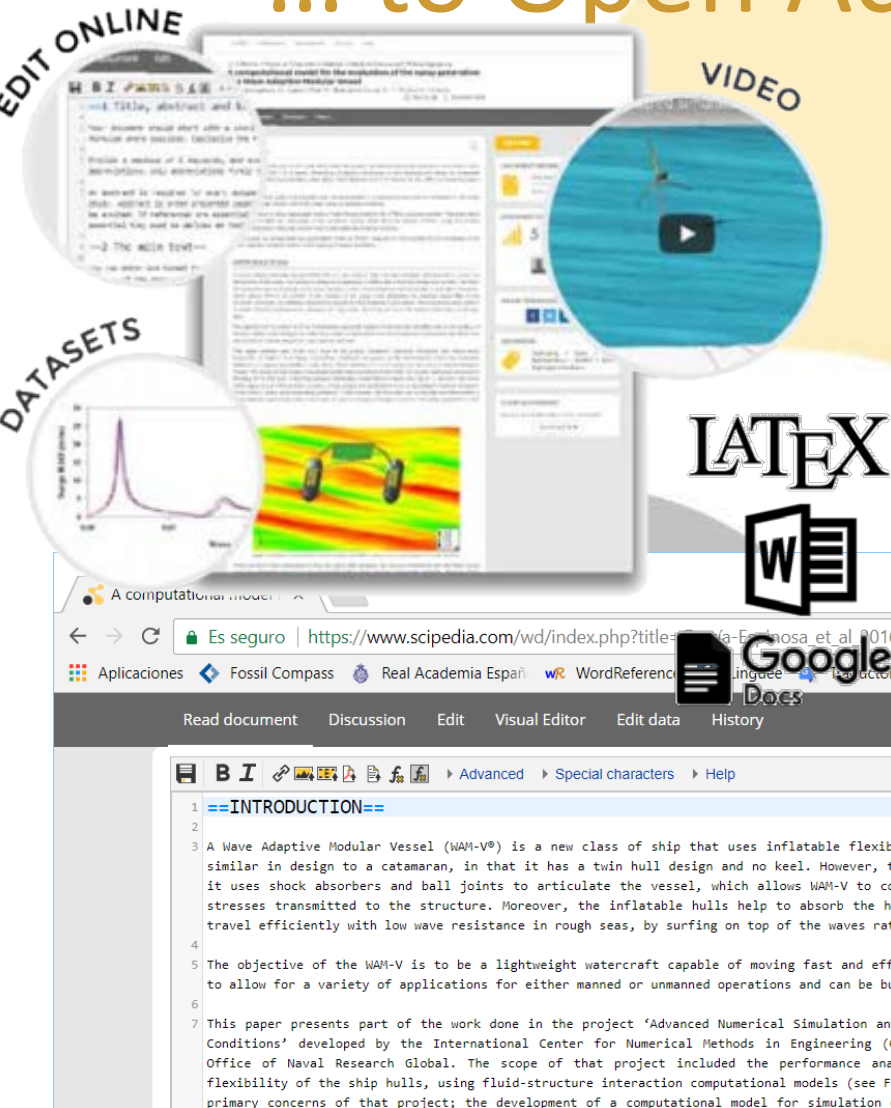
- pdf and epub

• Social network tools

- Share document
- Discussion page
- Recommendations

What can Scipedia offer ...

... to Open Access journals?



Enriched web scientific publishing

- Upload your manuscript created in LaTeX, Word or Google Docs using Scipedia import tools.
- Use Scipedia's online (collaborative) editor to improve its content and to insert supplementary material such as video, datasets, models and more.

Advanced journal (and congress) management platform

- Allows editors to handle all aspects of publication.
- Offers advanced support for blind peer-review and collaborative open peer-review (interactive).
- Reduces to the minimum the editorial effort, thanks to our self-publishing and automation services.

What can Scipedia offer to institutions?

The screenshot shows a web browser window with the URL <https://www.cimne.com/openscience>. The browser's address bar and search bar are highlighted. The website header includes the CIMNE logo and navigation links: Profile, Library, My network, Groups, Help. A search bar is also present. The main content area features a large image of the CIMNE building and a detailed institutional profile. The profile includes information about the organization's history, location, and mission. It also lists the head of institution, Eugenio Oñate, and provides a website link. The analytics section shows a reputation score of 8396, 982 contributions, and 9852 views. The members section displays a grid of member profiles.

International Centre for Numerical Methods in Engineering
Barcelona (Spain)

Overview Contributions Members Analytics

INFORMATION

Address
Campus Nord UPC. CIMNE Building C1. C/ Gran Capità, S/N 08034 Barcelona, Spain

Head of institution
Oñate, Eugenio 253
International Centre for Numerical...

Website
<http://www.cimne.com/>

MEMBERS

ANALYTICS

Reputation score	8396
Contributions	982
Views	9852

The International Centre for Numerical Methods in Engineering (CIMNE) is a research organization created in 1987 at the heart of the prestigious Technical University of Catalonia (UPC) as a partnership between the Government of Catalonia and UPC, in cooperation with UNESCO. The aim of CIMNE is the development of numerical methods and computational techniques for advancing knowledge and technology in engineering and applied sciences.

CIMNE's headquarters are located at the heart of the Technical University of Catalonia (UPC) in Barcelona. CIMNE has also premises at different buildings in several campus of the UPC. CIMNE has also offices in Spain (Madrid, Terrassa and Ibiza). In 2005 CIMNE started its international expansion and since then has created the following international branches: CIMNE Latinoamérica (Non-profit Foundation in Santa Fe, Argentina); CIMNE USA (Non-profit Corporation in Washington DC, USA); CIMNE Singapore (Non-profit Corporation in Singapore) and CIMNE Beijing (China).

CIMNE employs some 250 scientists and engineers who work in the different offices of CIMNE around the world. CIMNE has also established a network of 30 Classrooms in partnership with Universities in Spain and 11 Latin American countries.

The research and technology development (RTD) activities of CIMNE cover a wide spectrum of topics ranging from classical engineering fields such as civil, mechanic, environmental, naval, marine and offshore, food, telecommunication and bio-medical engineering, computer sciences and applied sciences such as material sciences bio-medicine, computational physics, nature, social and economic sciences and multimedia sciences, among others.

Institutional profile

- Customized layout / design
- Dedicated instance (institutional URL)
- Home page
 - Overview
 - Information
- Linked to repositories
 - Institutional
 - Departments
 - Personal
- Directory (members)
- Analytics
- Curation (edition)

What can Scipedia offer ...

... to institutions?

The screenshot displays the Scipedia website interface. At the top, the browser address bar shows the URL <https://www.scipedia.com/institution/cimne.upc.edu?section=publications>. The Scipedia logo and navigation menu are visible. The main header identifies the institution as CIMNE (International Centre for Numerical Methods in Engineering) in Barcelona, Spain. Below this, a tabbed interface shows 'Contributions' as the active section. Three contribution cards are listed: 'Papers Repository of the International Centre for Numerical Methods in Engineering (CIMNE)', 'Technical Reports of the International Centre for Numerical Methods in Engineering (CIMNE)', and 'Presentations to the VI International Conference on Coupled Problems in Science and Engineering'. Each card includes a 'Scope' description, statistics (documents, views, ratings), and a 'READ' button. On the right, an 'INFORMATION' sidebar provides details about the institution's address, head of institution (Eugenio Onate), and website. Below this, a 'MEMBERS' section shows a grid of member avatars, and an 'ANALYTICS' section displays metrics for reputation score, contributions, and views.

• Document/Data repositories

- Preprints / open access papers
- Research / Project reports
- Monographs
- Proceedings / presentations
- Open data repositories

• Links to selected archives

- Institutional
- Departments / groups
- Personal

• Journals

- Multiple links to documents

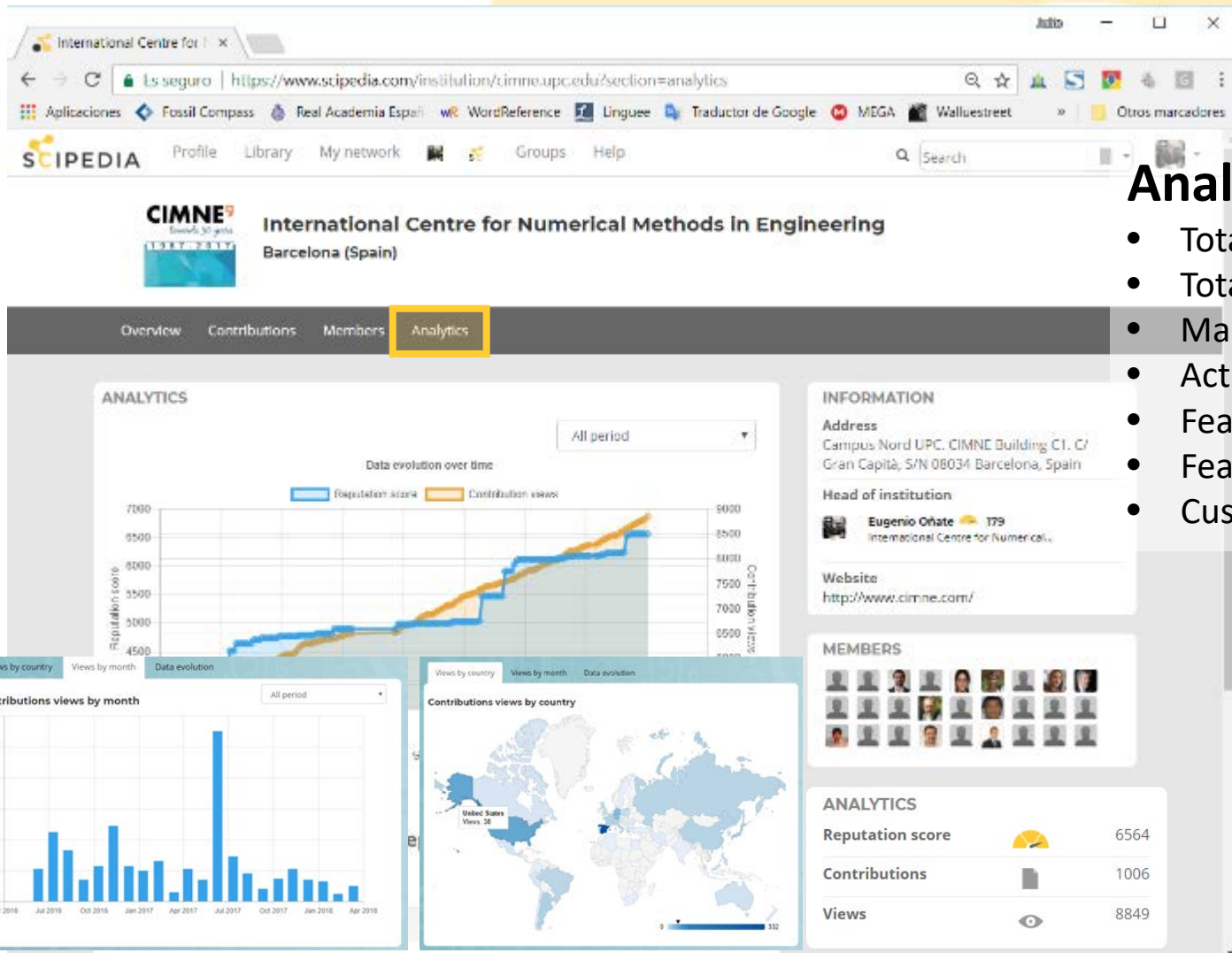
What can Scipedia offer to institutions?

Data / Big data repositories

The screenshot shows a web browser window displaying a Scipedia document. The browser's address bar shows the URL: https://www.scipedia.com/public/Draft_Garcia-Espinosa_6645/08. The page header includes the Scipedia logo and navigation links: Profile, Publications, My network, Groups, Help. Below the header, the document title is 'Repository of the International Center for Numerical Methods in Engineering (CINNE) Software Quality Assessment Tool Based on Meta-Models' by Julio Garcia Espinosa. The document is categorized under 'How to do' and 'Document data'. The main content area is divided into several sections: 'Description [wik]', 'Files (13 MB)', 'References [wik]', 'DOCUMENT INFORMATION', 'DOCUMENT SCORE', 'SHARE THIS DOCUMENT', 'KEYWORDS', and 'STRUCTURAL MEMBERS 2017'. The 'Files' section lists various files including 'COPYING.txt', 'HeatMapWrapper.py', 'README.txt', 'PREPARE', 'sample_files', 'mock4.pdf', 'mock4_single_expected.jpg', 'pretend_data.pdf', 'pretend_data_no_mock.pdf', 'pretend_data_pretend_model_data.csv', 'areMissingFeaturesLeft.py', 'dependencies', 'WHERE TO GET DEPENDENCIES.txt', 'my_utils.py', 'run_the_tool.py', 'tests', 'Thumbs.db', and 'compare_images.py'. The 'DOCUMENT INFORMATION' section shows the document was published on 20100317, has a DOI of 10.1016/j.imm.2010.09.003, and is licensed under CC BY-NC-SA license. The 'DOCUMENT SCORE' section shows a score of 5 and 3 recommendations. The 'SHARE THIS DOCUMENT' section includes social media sharing buttons for Facebook, Twitter, LinkedIn, and Google+. The 'KEYWORDS' section lists 'Sloching - Coupling - SPH - FEM - LNK - Visualization'. The 'STRUCTURAL MEMBERS 2017' section shows a list of members for March, Germany, October 1-11.

- **Description**
- **Structured data (templates)**
 - Datasets, Software, Graphs, Video, Big data sets, ...
 - Preview (when available)
- **Unstructured data**
 - Text + datasets + video + pictures + ...
 - Online edition
- References / external links
- **Metadata (XML)**
- Keywords (tags)
- Licence
- **DOI and document info**
- Other utilities:
 - Discussion forum
 - History
 - Share this document
 - Document score

What can Scipedia offer to institutions?



Analytics

- Total views
- Total contributions
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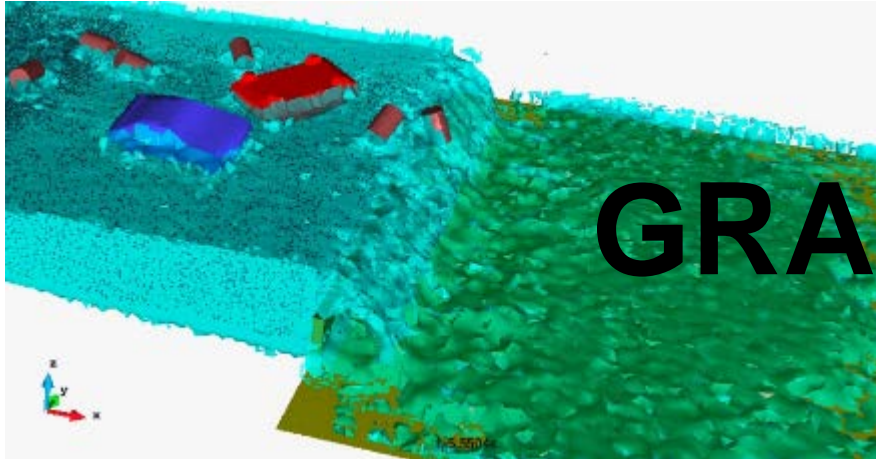
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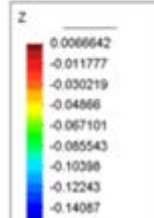
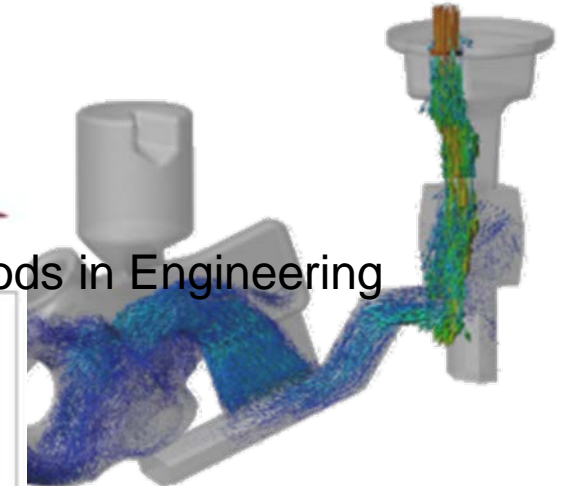
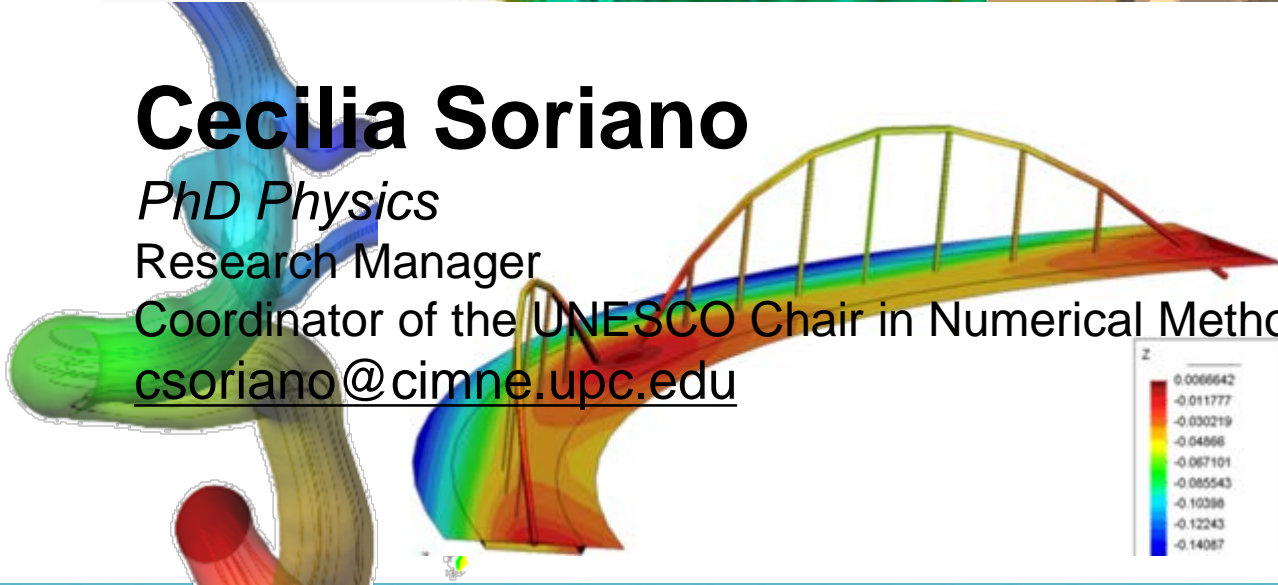
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