EGI Applications Database (TNA3.4)

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The EGI Applications Database (AppDB) is a full-fledged, community driven web portal, meant to act as a

- point-of-reference for scientific applications and tools available within the EGI infrastructure
- registry of persons involved in the development of said software

Its main aims are to

- promote the significance of EGI in e-Science
- facilitate the reuse of applications and expertise that is available in NGIs
- help create a vibrant user community, with information flowing inwards directly from involved individuals – developers and end-users alike

- Descendant of the EGEE Applications Registry portal, developed and provided by INFN and IASA [4, 3], still active for historical reasons
- Since the EGI era, the portal came under sole Greek responsibility and is now hosted by IASA, in Athens [1]
- Currently the database counts 250 applications & tools and twice as many people registered, across 7 disciplines and 14 countries.
- Most entries from Italian researchers; expected to change as AppDB becomes more widely known and accepted
- Integrated with the RESPECT program [5]: 19 tools accounted for, so far

Interface: data view on the right, navigation pane on the left

- Applications and Tools
  - index of applications and tools, registration form for new entries
  - advanced/quick filters on top of page (discipline, keywords, etc.)
- Use Cases
  - a placeholder containing a link to the EGI Wiki portal
  - access to information about successful porting of applications in future releases
- People
  - index of people profiles
  - advanced/quick filters on top of page (role, country, etc.)
- Statistics: access to statistics graphs about applications or people versus various parameters, such as disciplines, countries, etc.
- Science Gateways: access to existing or to be developed information portals within the identified scientific communities

William Karageorgos

Applications Database

Inbox (0) Logout

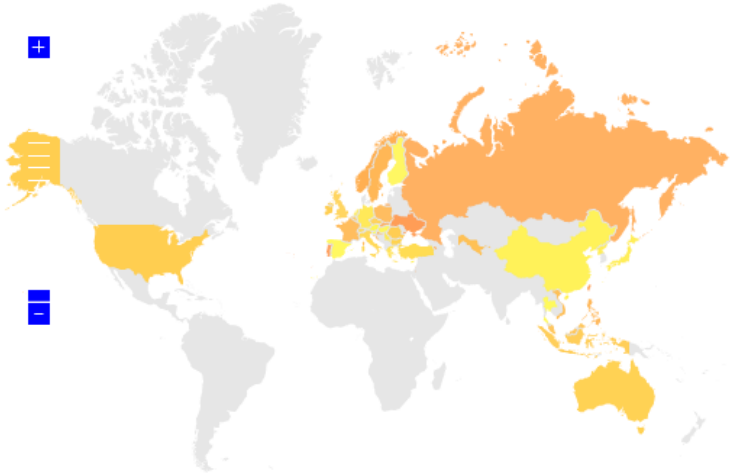
- Home
- Applications & Tools
- Use Cases
- People
- Statistics
- Science Gateways
- Links
- Contact
- **News**

Latest News

- 2010.08.26
  Last week to register for the EGI Technical Forum 2010 at the reduced rate
- 2010.08.26
  First issue of EGI newsletter, Inspired, published
- 2010.07.13
  Registration open for the EGI Technical Forum 2010

Welcome to the EGI Applications Database

This is the central point for gathering and providing information on the scientific applications deployed in EGI, exploiting the project's international Grid infrastructure. Awareness of size and strength of local users community and identification of driving disciplines helps EGI to understand the user requirements, identify new potential communities and expand the exploitation of the infrastructure.



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Guest Access

Anonymous, read-only access to applications and people data

- Applications
  - Name, logo, description, discipline, abstract, status, country, VOs, etc.
  - List of associated researchers and publications
  - List of URLs such as website, documentation, etc.
- People
  - Name, role, institute, country, contact information data
  - List of associated applications and publications
- Data export to CSV/XML
- Quick filters and advanced filtering available
- Quick grid view / detailed list view

Features: Application Browser (list view)

Login

Applications Database

Home

Applications & Tools

- Applications:
  - All (249)
- Tools:
  - All (20)
  - RESPECT (19)

Use Cases
People
Statistics
Science Gateways
Links
Contact
News

Filter | Discipline | Country | Region | Consortium

249 matches

< 1 2 3 4 5 6 7 8 9 10 11 >

B_nF Bio _nFluidics	**C.I.E.E.V.** Clustering of infrasound events on Mt. Etna volcano	**CACTUS** Chaos And Complexity Theoretical University Study	**CALnet** Combinatorial Association Logic Networks Inference
CAM Community Atmosphere Model	**CAMx-UOA** Numerical simulations of meteorology and atmospheric pollution	**CASTEP** CASTEP	**CD-HIT-Grid** Protein clustering on the Grid with CD-HIT
ClustalW ClustalW	**CLUSTALW** ClustalW	**CLUSTER** Chaotic map clustering	**CMS** Software for the CMS experiment
CMS CMS	**COLLGUN** Finite Element Electromagnetic Analysis of TWT Electron Guns in Grid Environment	**COLUMBUS** COLUMBUS	**COMD** COnstrained Molecular Dynamics
COMPACTION Simulation of the compaction of granular materials	**COMP_FILT** Grid-based Analysis of Simulated Light Curves to Test Planetary Transit Detect...	**CORSIKA** COsmic Ray SImulations for KAscade	**CORSIKA** CORSIKA
CPM Conformal Prediction Methods	**CR3x+1** Parallel Search of 3x+1 Class Records	**CSCGF** Computer Simulation of Complex Gas Flows in Micro-sized Channels and Domains	**CSTMiner_in_JST** CSTMiner_in_JST

< 1 2 3 4 5 6 7 8 9 10 11 >

hellasgrid IASA grnet www.edet.gr EGI

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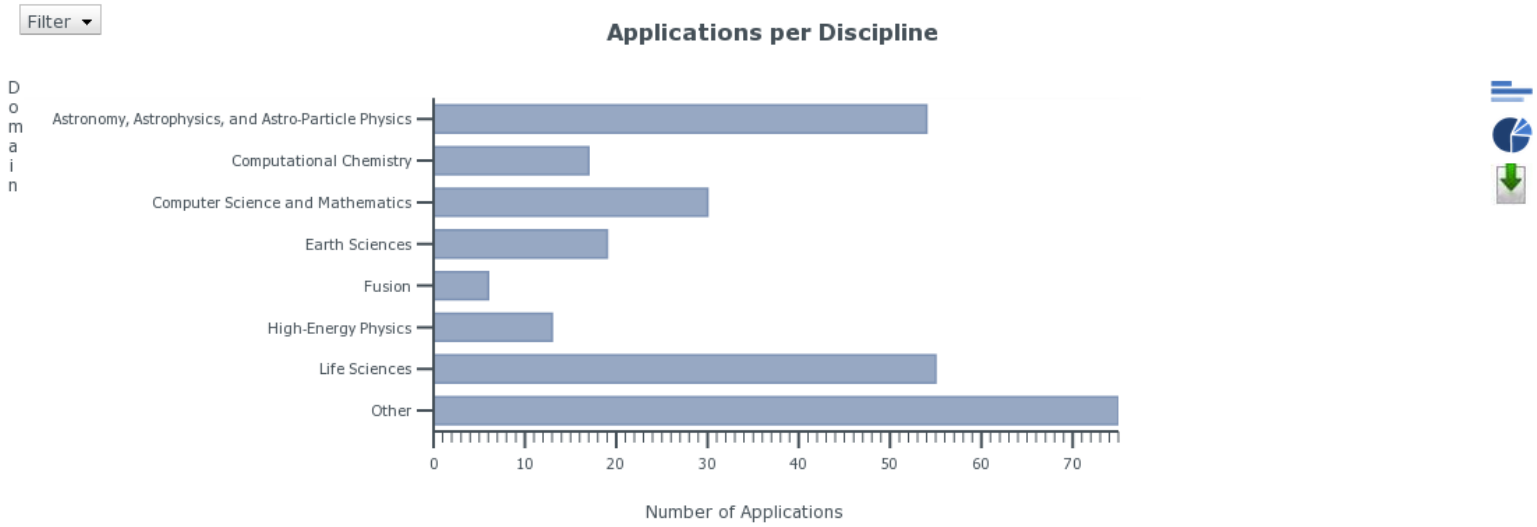
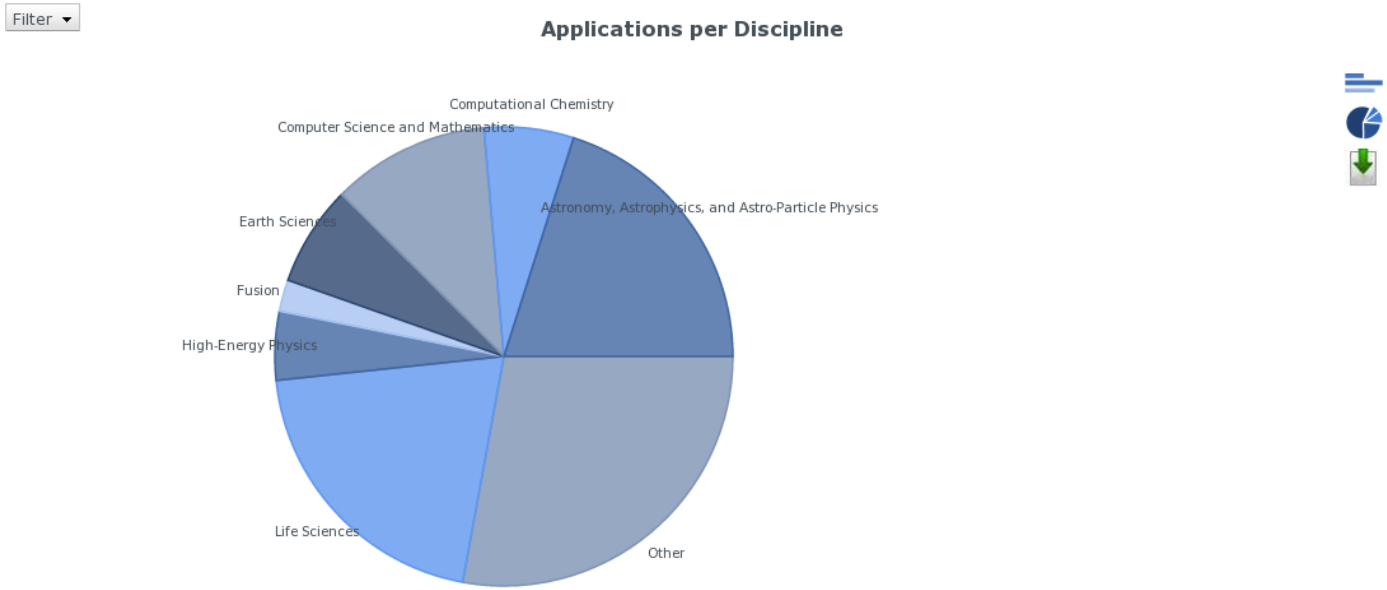
v.0.99.1-2

Statistics

- Application and people statistics
- Per (sub)discipline, country, region, VO, etc.
- Bar/Pie chart views
- Image export to PDF/JPG/PNG/SVG
- Data export to CSV/XML

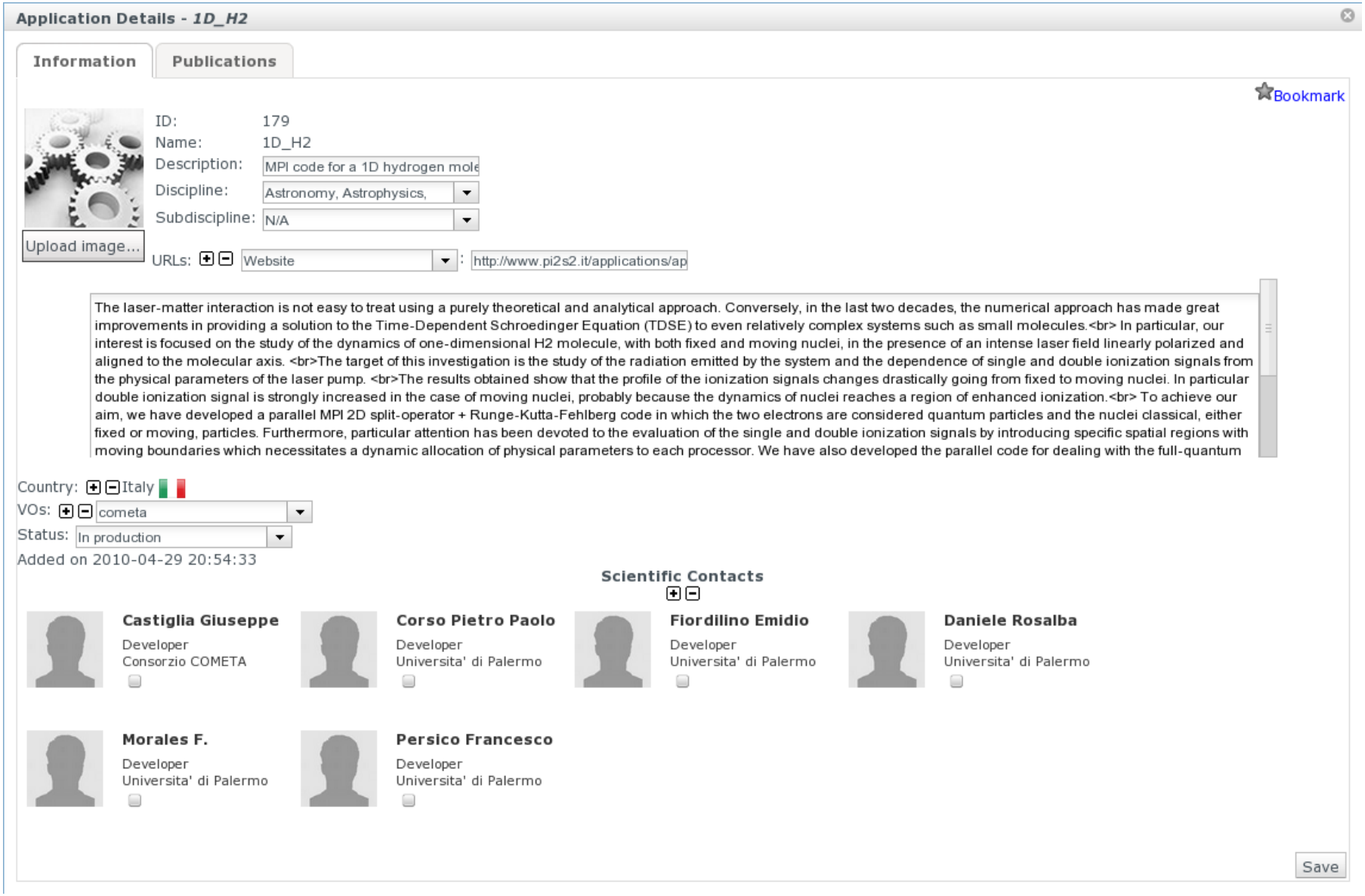

Filter
Applications per Discipline
Domain
Astronomy, Astrophysics, and Astro-Particle Physics
Computational Chemistry
Computer Science and Mathematics
Earth Sciences
Fusion
High-Energy Physics
Life Sciences
Other
0
10
20
30
40
50
60
70
Number of Applications

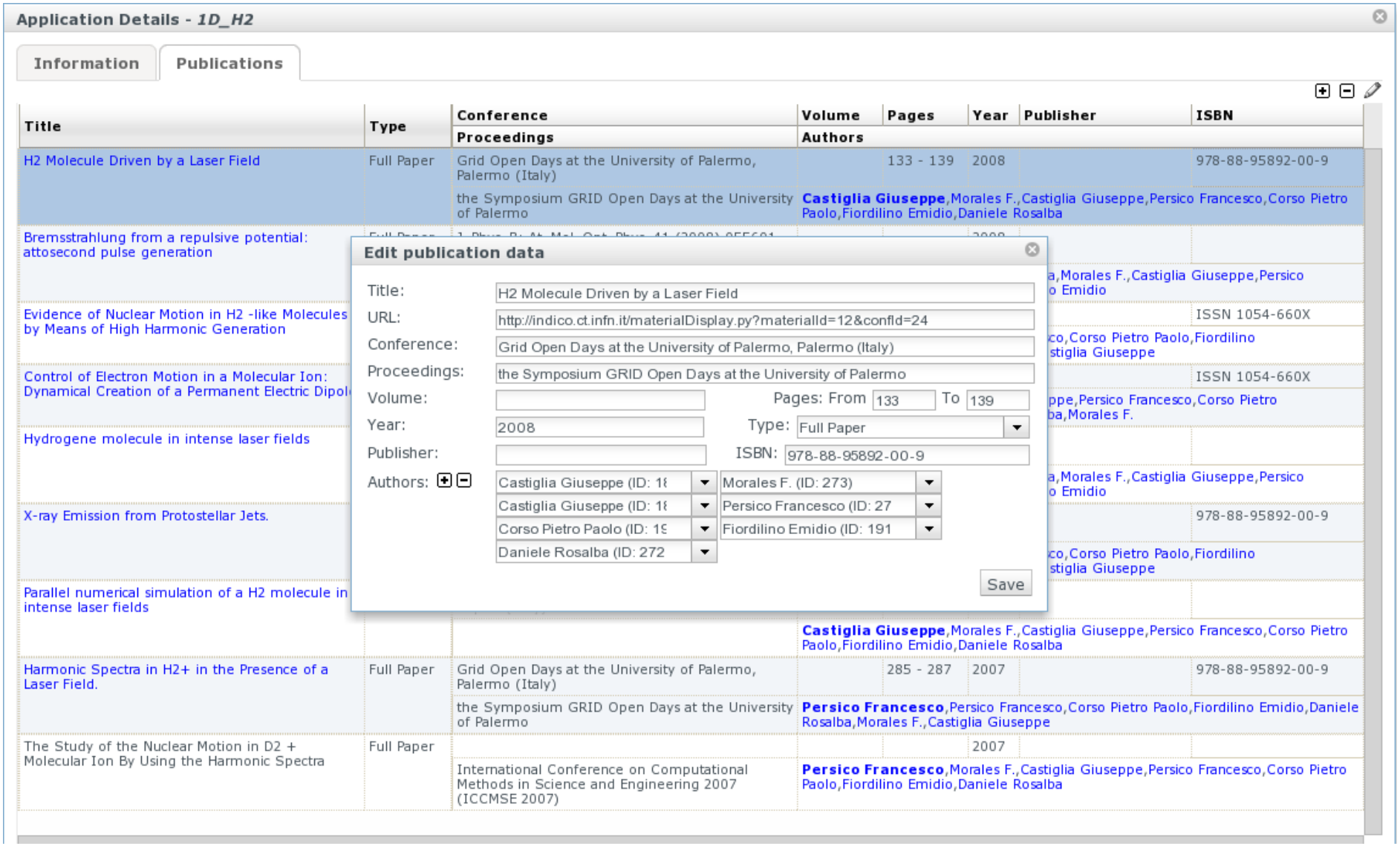

Filter
Applications per Discipline
Computational Chemistry
Computer Science and Mathematics
Astronomy, Astrophysics, and Astro-Particle Physics
Earth Sciences
Fusion
High-Energy Physics
Life Sciences
Other

Authenticated Access

- Currently only available in development version
- Single Sing-On (EGI SSO)
- Registered users, among other, can
  - edit their profile
  - bookmark applications
  - register a new application
  - edit existing application data
  - associate people to their applications
- Editing privileges based on user's role; additional permissions granted on a fine-grained control policy
- User inbox for system notifications and instant messaging

Features: Application editing card




Application Details - 1D_H2
Information
Publications
Title
Type
Conference
Proceedings
Volume
Pages
Year
Publisher
ISBN
Authors
H2 Molecule Driven by a Laser Field
Full Paper
Grid Open Days at the University of Palermo, Palermo (Italy)
the Symposium GRID Open Days at the University of Palermo
133 - 139
2008
978-88-95892-00-9
Castiglia Giuseppe,Morales F.,Castiglia Giuseppe,Persico Francesco,Corso Pietro Paolo,Fiordilino Emidio,Daniele Rosalba
Bremsstrahlung from a repulsive potential: attosecond pulse generation
Evidence of Nuclear Motion in H2 -like Molecules by Means of High Harmonic Generation
ISSN 1054-660X
Control of Electron Motion in a Molecular Ion: Dynamical Creation of a Permanent Electric Dipol
ISSN 1054-660X
Hydrogene molecule in intense laser fields
X-ray Emission from Protostellar Jets.
978-88-95892-00-9
Parallel numerical simulation of a H2 molecule in intense laser fields
Harmonic Spectra in H2+ in the Presence of a Laser Field.
Full Paper
Grid Open Days at the University of Palermo, Palermo (Italy)
the Symposium GRID Open Days at the University of Palermo
285 - 287
2007
978-88-95892-00-9
Persico Francesco,Persico Francesco,Corso Pietro Paolo,Fiordilino Emidio,Daniele Rosalba,Morales F.,Castiglia Giuseppe
The Study of the Nuclear Motion in D2 + Molecular Ion By Using the Harmonic Spectra
Full Paper
International Conference on Computational Methods in Science and Engineering 2007 (ICCMSE 2007)
2007
Persico Francesco,Morales F.,Castiglia Giuseppe,Persico Francesco,Corso Pietro Paolo,Fiordilino Emidio,Daniele Rosalba
Edit publication data
Title:
H2 Molecule Driven by a Laser Field
URL:
http://indico.ct.infn.it/materialDisplay.py?materialId=12&confId=24
Conference:
Grid Open Days at the University of Palermo, Palermo (Italy)
Proceedings:
the Symposium GRID Open Days at the University of Palermo
Volume:
Pages: From
133
To
139
Year:
2008
Type:
Full Paper
Publisher:
ISBN:
978-88-95892-00-9
Authors:
Castiglia Giuseppe (ID: 1
Morales F. (ID: 273)
Castiglia Giuseppe (ID: 1
Persico Francesco (ID: 27
Corso Pietro Paolo (ID: 1
Fiordilino Emidio (ID: 191
Daniele Rosalba (ID: 272
Save

Features: Profile editing card

Person Details - *William Karageorgos*

Information | Publications | Permissions

Upload image...

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Related Applications

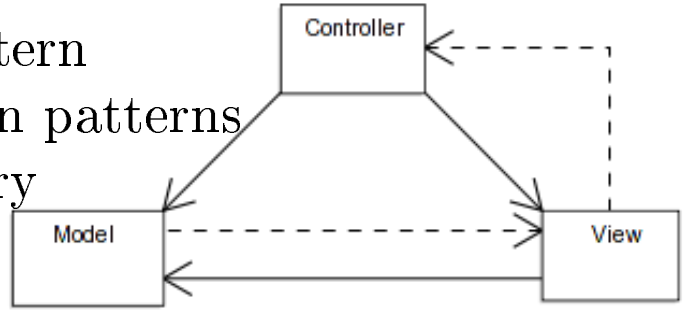
AppDB

EGI Application Database

Save

Some Technical Information

- Zend Framework
  - PHP basis for the MVC architectural pattern
  - Supports Table/Row Data Gateway design patterns
  - Integrates with the dōjō toolkit and jQuery
- dōjō toolkit
  - High-end UI experience through advanced widgets
- jQuery
  - "Application" look-and-feel through full use of AJAX
  - Use of jSON for data interchange
- MySQL data back-end
  - InnoDB storage engine (triggers, referential integrity)
  - Extended use of optimized Views (Table/Row Data Gateway DP)



- Upcoming version
  - Bind AppDB with the EGI SSO system
  - Enable write mode for users with SSO account (authenticated access)
- Future versions
  - Integrate with other scientific or social gateways/portals
  - Enhance information flow through bulleting board, email subscription, RSS feeds
  - IE 8 browser support
  - User feedback will play an important role

Communication with the AppDB support staff:

- Through the AppDB Support Unit established in the Grid Global User Support (GGUS) system [2]
- Through the NGI based mailing list appdb-support@hellasgrid.gr

References

1. EGI Applications Database.
   http://appdb.egi.eu/.
2. Global Grid User Support.
   https://gus.fzk.de/.
3. EGEE Application Support.
   http://grid.ct.infn.it/egee_applications.
4. EGEE Regional Applications Registry.
   http://appdb.eu-egee.org.
5. The RESPECT program.
   http://technical.eu-egee.org/index.php?id=290.