

DABAR - the national infrastructure for digital repositories

Celjak, Draženko

Conference presentation / Izlaganje na skupu

Permanent link / Trajna poveznica: <https://urn.nsk.hr/urn:nbn:hr:102:825381>

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Download date / Datum preuzimanja: **2024-09-17**



Repository / Repozitorij:

[Digital repository of the University Computing Centre \(SRCE\)](#)



DABAR – the national infrastructure for digital repositories

Draženko Celjak, SRCE – University of Zagreb, University Computing Centre

Digital Art History – Methods, Practices, Epistemologies / DARIAH day

Zagreb, 14 November 2018



SRCE – University of Zagreb, University Computing Centre

- main computing centre and the architect of the e-infrastructure
- covering both the University of Zagreb and the whole research and high education system



The project DABAR

June 2014

3 main goals:

- National infrastructure for digital repositories
 - scalable, interoperable, sustainable, flexible and suited for long term preservation
- Community
 - information needs, application profiles, controlled vocabularies, education and user support
- Promotion of OA

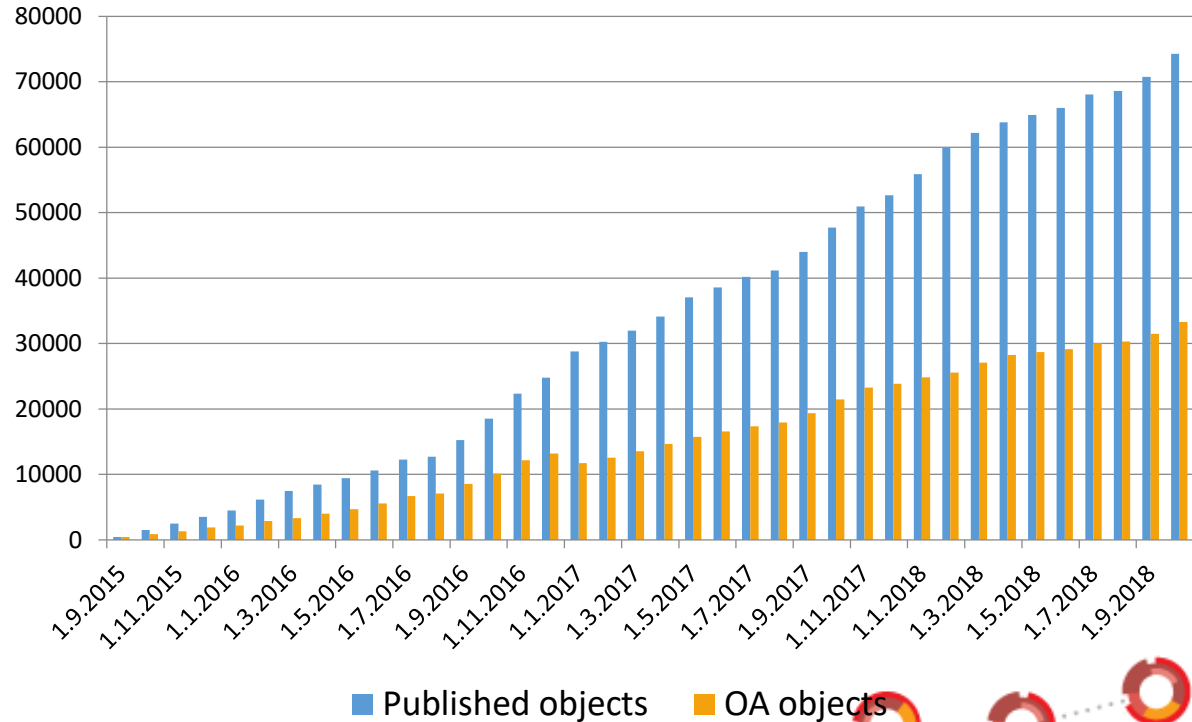
Production: August 2015



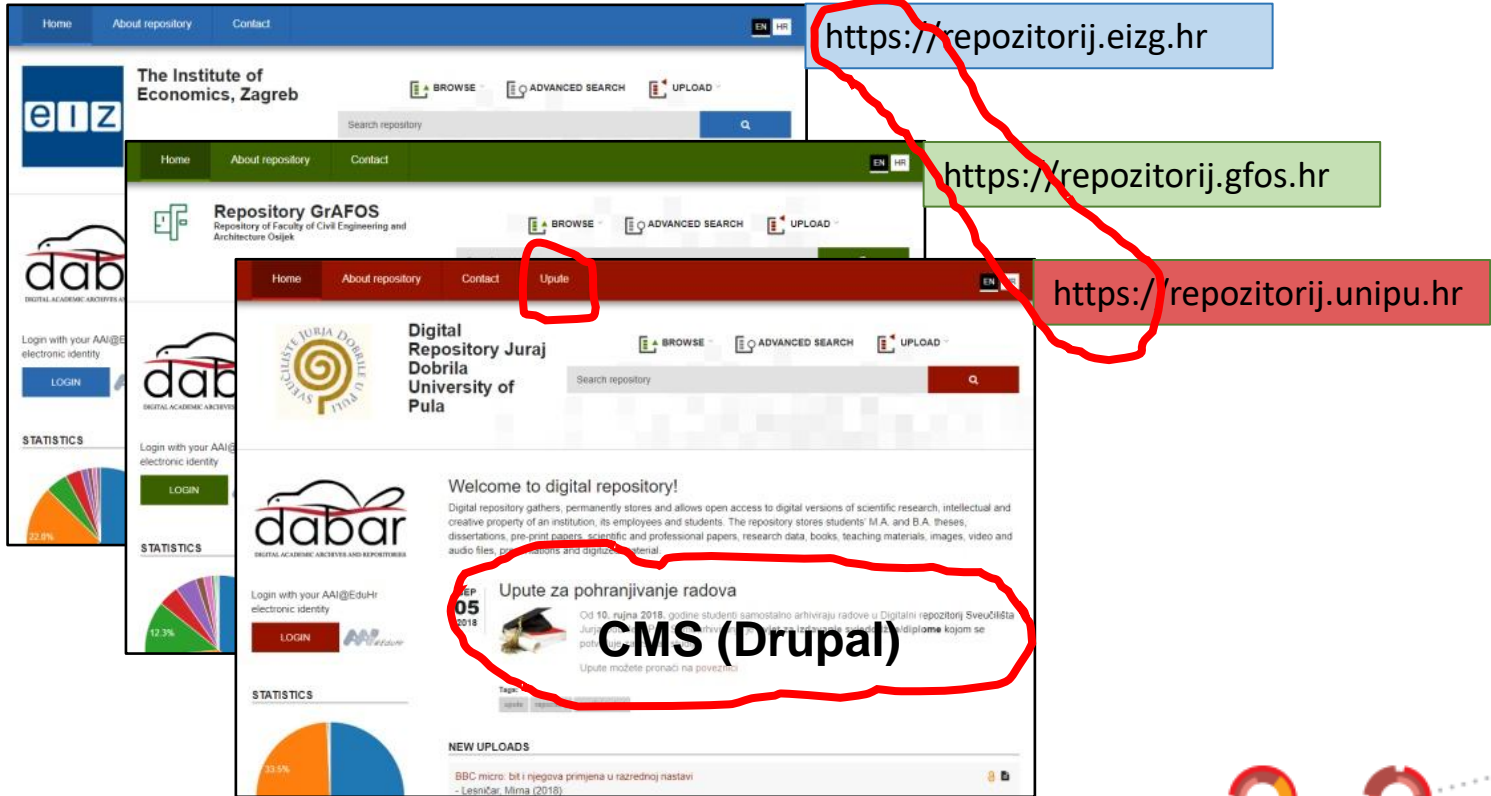
DABAR – Digital Academic Archives and Repositories

- 123 digital repositories
 - 10 universities
 - 2 national repositories

- 75.000+ digital objects
- 33.700+ OA



Repositories...



https://repozitorij.eizg.hr

https://repozitorij.gfos.hr

https://repozitorij.unipu.hr

CMS (Drupal)

Upute za pohranjivanje radova

Od 10. rujna 2018. godine studenti samostalno arhiviraju radove u Digitalni repozitorij Sveučilišta Juraj Dobriča Pula. Upute za pohranjivanje radova možete pronaći na poveznici: [Upute za pohranjivanje radova](#)



Digital objects (nationally agreed)

- Journal articles
- Papers published in proceedings
- Book chapters
- Conference abstracts and presentations

- Theses
- Artistic theses
- Dissertations
- Appendices

- Photographs
- Audio objects
- Audiovisual objects

SCIENTIFIC PAPER - ORIGINAL SCIENTIFIC PAPER

Centrality dependence of the pseudorapidity density distribution for charged particles in Pb–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

Adam, J.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zmeskal, J. (2017)

Download PDF 833.06 KB

Cite this item: <https://um.nsk.hr/um.nbn.hr:217.393315>

Language	English
Title (English)	Centrality dependence of the pseudorapidity density $\sqrt{s_{NN}} = 5.02$ TeV
Author	Adam, J. ... Antičić, Tome ... Erhardt, Filip

MOVE
Fabijan

Miden, Lovro; Mrden, Lovro; Merić, Matej; Jurić, Zvonimir; Merić, Matej



Preuzmi
quicktime 1.52 GB

Cite this item: <https://um.nsk.hr/um.nbn.hr:205.466036>

MASTERS THESIS

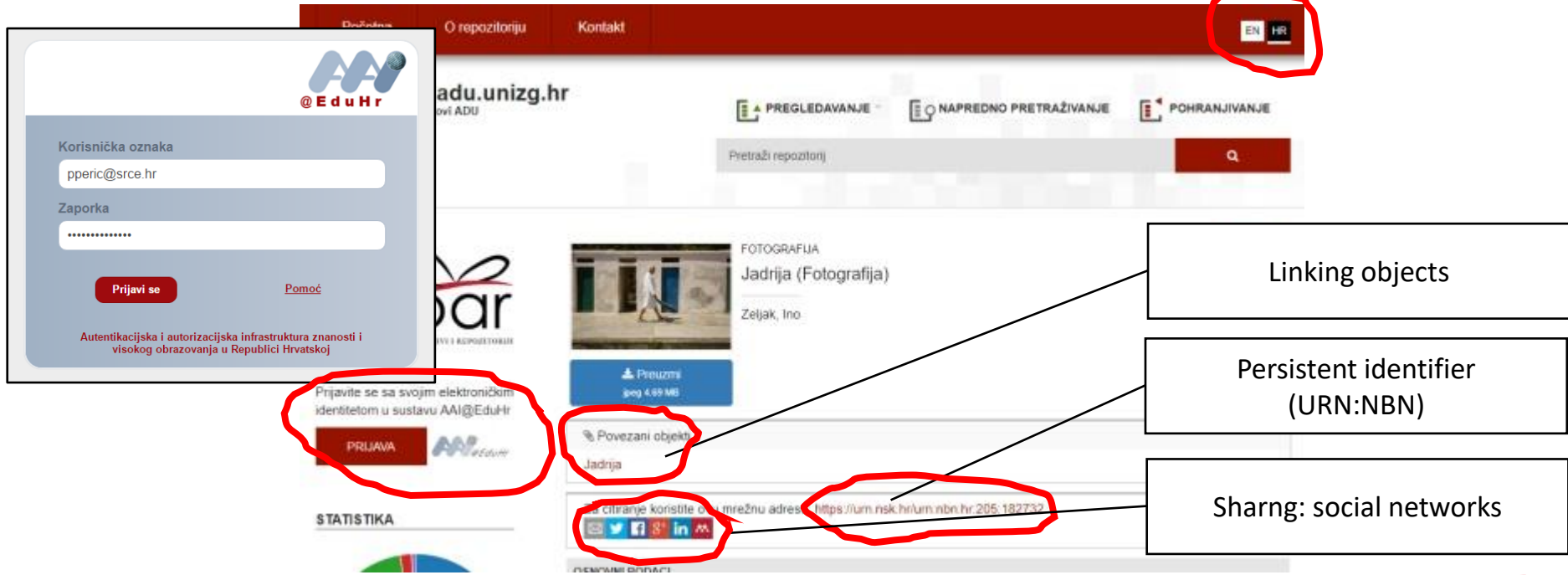
F20.5
Lizde, Glorija

Image objects

Grid of image thumbnails: portraits of a woman, a person in a kitchen, a building, a cup, a person in a field, a person in a field, a person in a field, a person in a field, a person in a field, a person in a field, a person in a field, a person in a field.



Repositories...



The screenshot shows the website interface with several red circles highlighting specific features:

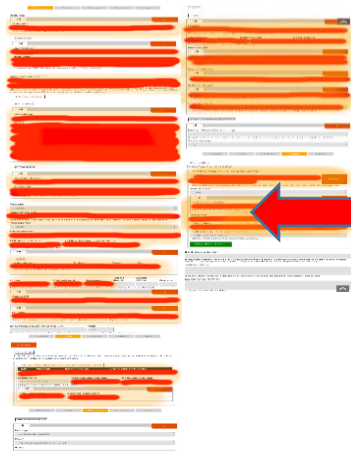
- EN HR** (Language selection)
- Prijavi se** (Login button)
- Prijavite se sa svojim elektroničkim identitetom u sustavu AA|@EduHr** (Login with electronic identity)
- Povezani objekti** (Linked objects)
- https://urn.nsk.hr/urn:nbn:hr:205:182732** (URN identifier)
- STATISTIKA** (Statistics)

Annotations on the right side of the image:

- Linking objects** (points to the 'Povezani objekti' link)
- Persistent identifier (URN:NBN)** (points to the URN URL)
- Sharg: social networks** (points to the social media icons)



Results: rich metadata vs efficiency

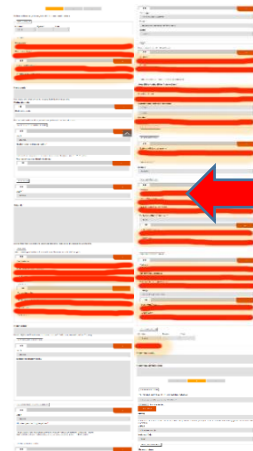


Croatian Higher
Education Information
System (ISVU)

Registry of Study
Programs

AAI@EduHr

URN:NBN



HRČAK (OAI-PMH, KBART)

CROSBİ (Web/MODS)

DOI/CrossRef (API)

Sherpa / ROME0

AAI@EduHr

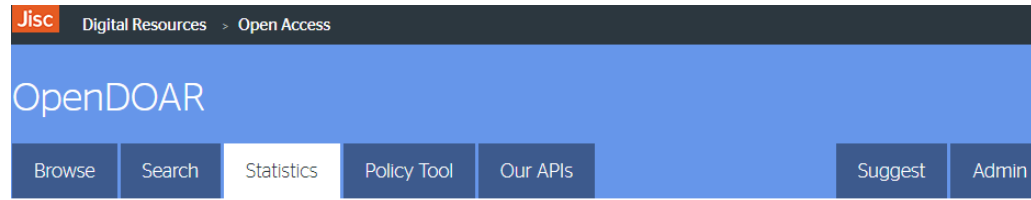
URN:NBN

Registry of Scientists

PubMed Central (API)

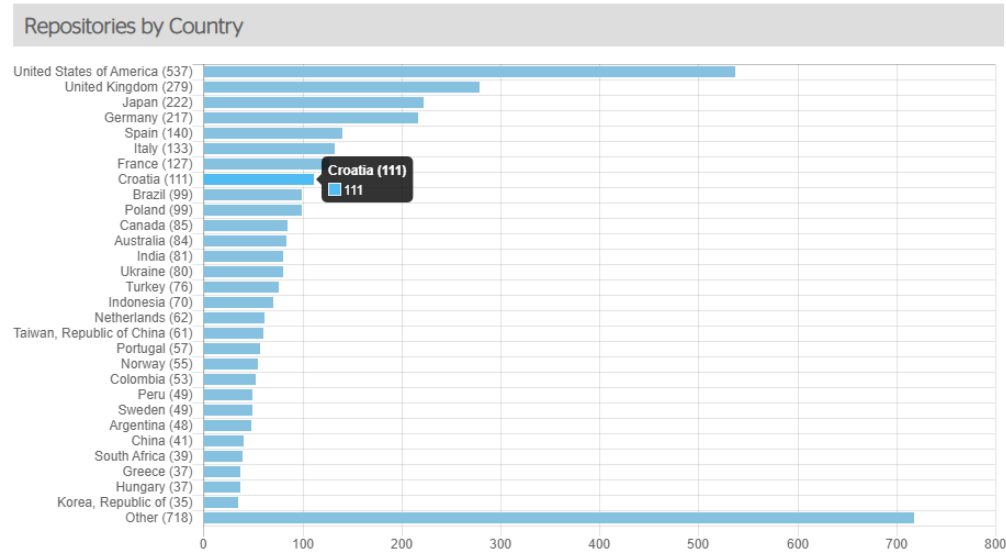


DABAR & OpenDOAR



OpenDOAR Statistics

An overview of the data held in OpenDOAR



http://v2.sherpa.ac.uk/view/repository_visualisations/1.html



DABAR & Google Scholar

Google site:repozitorij.pfos.hr

Scholar About 48 results (0.05 sec)

Articles [PDF] Alelopatski utjecaj zajedničkog klijanja, vodenih ekstraktata i biljnih ostataka kadulje (Salvia officinalis L.) na strjeličastu grbicu (Lepidium draba (L.) Desv.) [PDF] from pfos.hr
M. Nikolić - 2015 - repozitorij.pfos.hr

Case law Primjena sintetičkih herbicida u suzbijanju korova doprinijela je problemima u vidu pojave rezistentnih korovnih vrsta te onečišćanja ekološa, a njihova daljnja primjena može dovesti i do ozbiljnih ekoloških posljedica i narušavanja ljudskog zdravlja (Angelini i sur., 2003.). ...
Cited by 2 Cite Save More

My library

Any time

Since 2015 Obrada tla u tropskim uvjetima [PDF] from pfos.hr
D. Borić - 2015 - repozitorij.pfos.hr

Since 2014 Abstract U radu su opisana tropska područja koja se na temelju sustava atmosferskog kruženja mogu definirati kao područje između dva pojasa visokog tlaka koja se nalaze na granicama između subtropskih i tropskih područja visokog tlaka sjeverne i južne polutke. ...
Cite Save

Since 2011

Custom range...

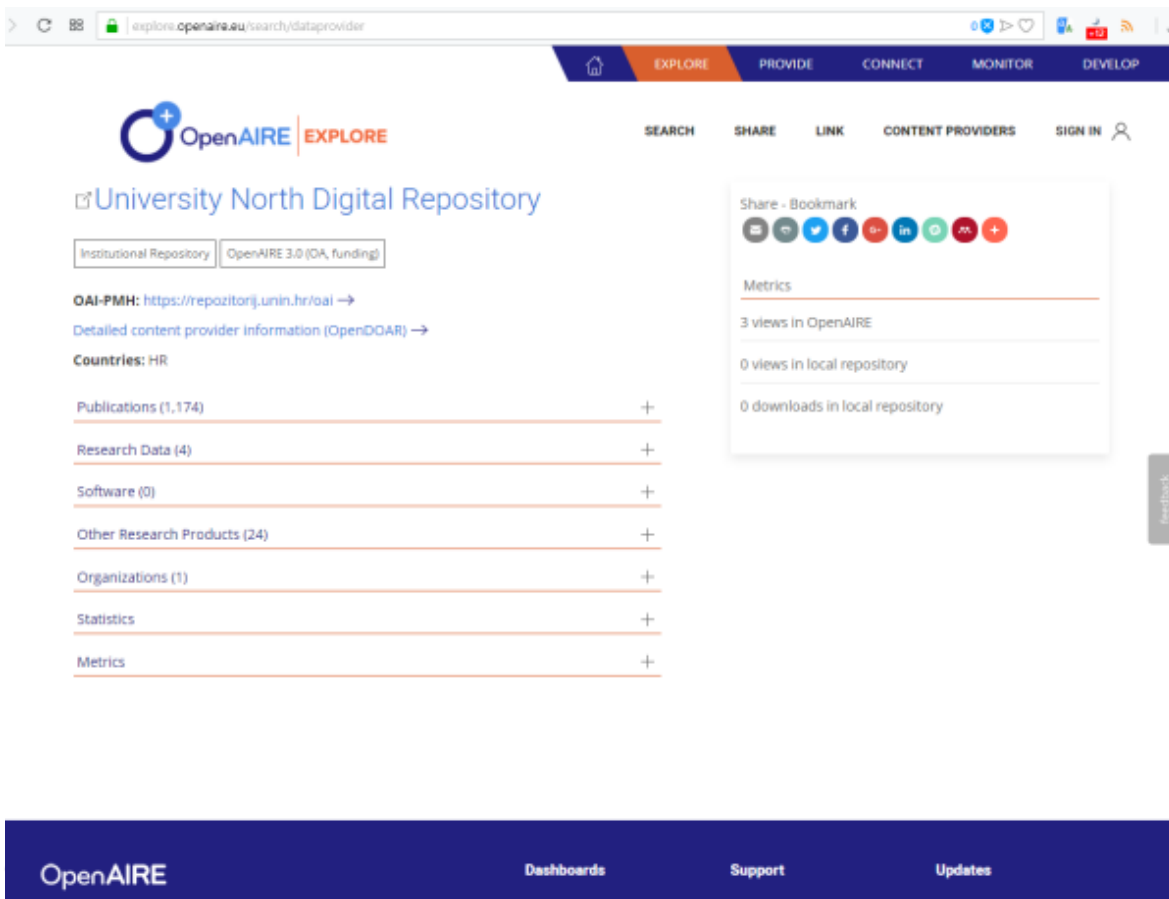
Sort by relevance [PDF] Acidobazni status brojlera hranjenih s različitim razinama nusproizvoda tvornice etanola [PDF] from pfos.hr
Sort by date J. Muselin - 2015 - repozitorij.pfos.hr

include patents
 include citations

```
<meta name="citation_pdf_url" content="https://repozitorij.pfos.hr/islandora/object/pfos:42/datastream/PDF/download" />
<meta name="citation_language" content="hrv" />
<meta name="citation_keywords" content="alelopatski; zajednicko klijanje; vodeni ekstrakti; biljni ostatci; Salvia officinalis; Lepidium draba (L.) Desv.; allelopathy; cogeneration; water extracts; plant residues; Salvia officinalis L.; Lepidium draba (L.) Desv." />
<meta name="citation_dissertation_institution" content="Josip Juraj Strossmayer University of Osijek. Faculty of agriculture. DEPARTMENT FOR PLANT PROTECTION." />
```



DABAR & OpenAIRE



The screenshot shows the OpenAIRE Explore interface for the University North Digital Repository. The browser address bar shows the URL `explorer.openaire.eu/search/dataprovider`. The navigation bar includes links for EXPLORE, PROVIDE, CONNECT, MONITOR, and DEVELOP. The main content area displays the repository name, a search bar with filters for 'Institutional Repository' and 'OpenAIRE 3.0 (OA, funding)', and a list of categories with their respective counts. A 'Share - Bookmark' panel is open on the right, showing social media icons and metrics for views and downloads. The footer contains the OpenAIRE logo and links for Dashboards, Support, and Updates.

OpenAIRE | EXPLORE

SEARCH SHARE LINK CONTENT PROVIDERS SIGN IN

University North Digital Repository

Institutional Repository OpenAIRE 3.0 (OA, funding)

OAI-PMH: <https://repositorj.unin.hr/oai> →
Detailed content provider information (OpenDOAR) →

Countries: HR

Publications (1,174)	+
Research Data (4)	+
Software (0)	+
Other Research Products (24)	+
Organizations (1)	+
Statistics	+
Metrics	+

Share - Bookmark

Metrics

3 views in OpenAIRE

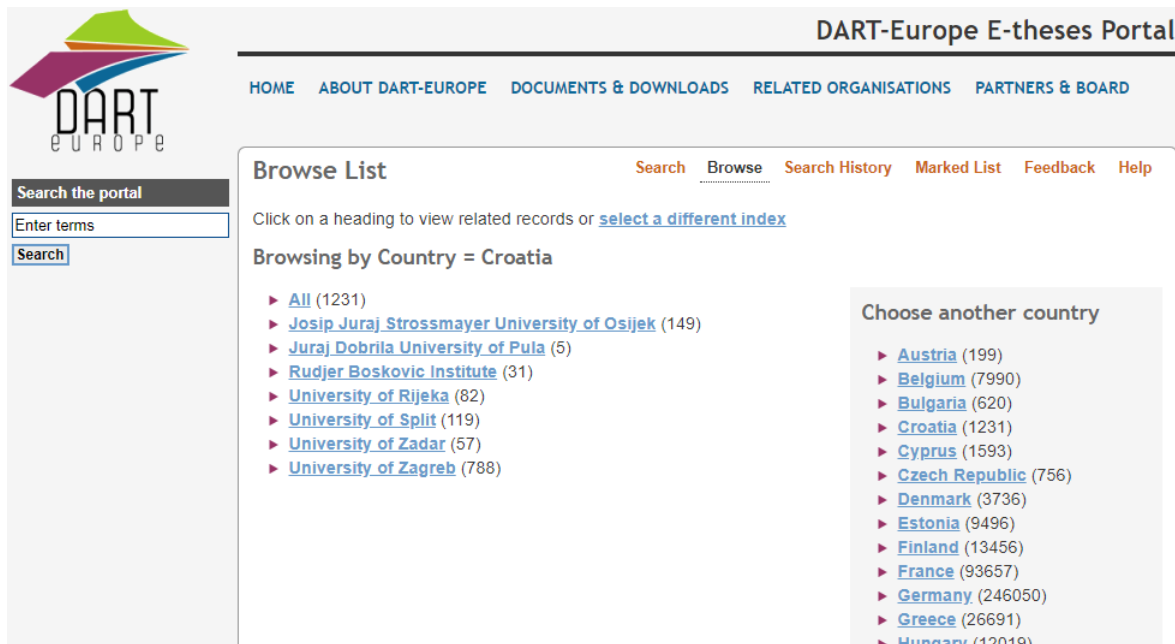
0 views in local repository

0 downloads in local repository

OpenAIRE Dashboards Support Updates



DABAR & DART Europe



The screenshot shows the DART-Europe E-theses Portal. At the top right, the title "DART-Europe E-theses Portal" is displayed. Below it is a navigation menu with links: HOME, ABOUT DART-EUROPE, DOCUMENTS & DOWNLOADS, RELATED ORGANISATIONS, and PARTNERS & BOARD. On the left side, there is a search box with the text "Search the portal" and "Enter terms", and a "Search" button. The main content area is titled "Browse List" and includes links for "Search", "Browse", "Search History", "Marked List", "Feedback", and "Help". Below the title, there is a link to "select a different index". The current view is "Browsing by Country = Croatia", which lists several institutions with their respective record counts: All (1231), Josip Juraj Strossmayer University of Osijek (149), Juraj Dobrila University of Pula (5), Rudjer Boskovic Institute (31), University of Rijeka (82), University of Split (119), University of Zadar (57), and University of Zagreb (788). To the right of this list is a "Choose another country" section with a list of countries and their record counts: Austria (199), Belgium (7990), Bulgaria (620), Croatia (1231), Cyprus (1593), Czech Republic (756), Denmark (3736), Estonia (9496), Finland (13456), France (93657), Germany (246050), Greece (26691), and Hungary (12019).

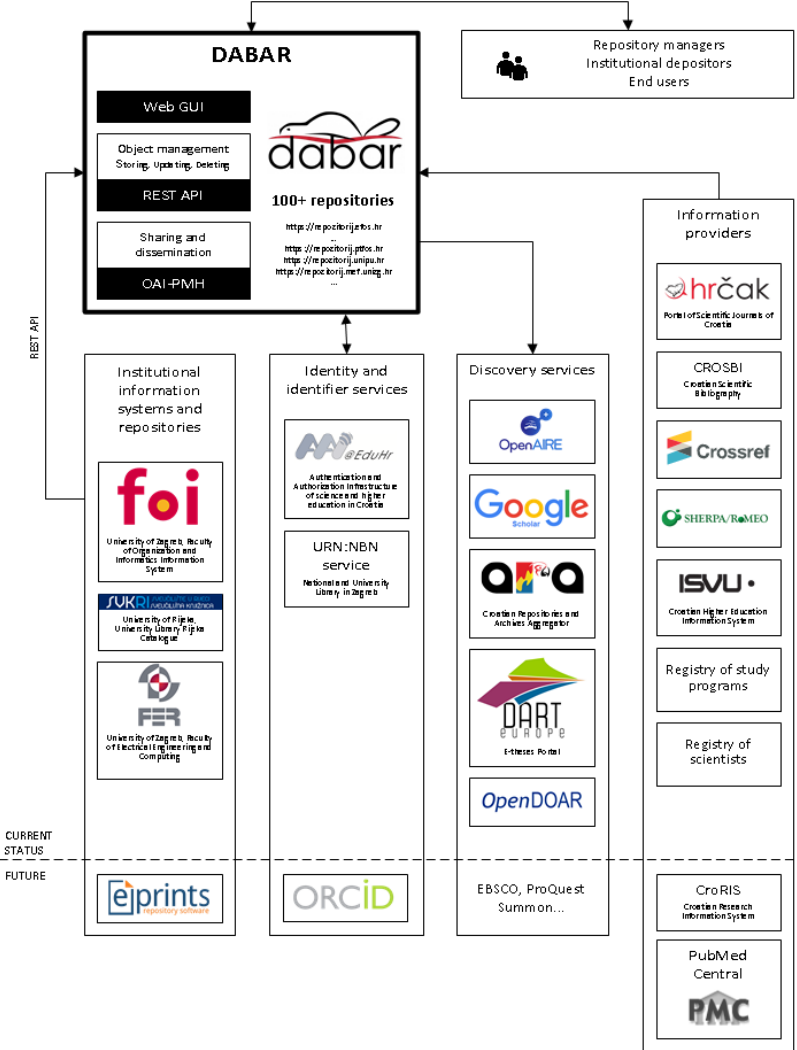
<http://www.dart-europe.eu/browse-list.php?country=Croatia>

“DART-Europe is a partnership of research libraries and library consortia who are working together to improve global access to European research theses.” (<http://www.dart-europe.eu/About/info.php>)



Interoperability

DABAR's integration with national and global e-infrastructure



Security

- Updates
- Firewalls
- Backup
- Archiving



Workshops

25 workshops for repository managers in Zagreb, Rijeka, Osijek, Split & Dubrovnik with **276 participants**

Topics:

- Introduction to repositories in DABAR
- Journal articles in DABAR
- DABAR & OpenAIRE
- Multimedia in DABAR



Community!

March 2016. - memorandum of understanding:

- SRCE
- Ruđer Bošković Institute
- University of Zagreb School of Medicine
- University of Zagreb Faculty of Humanities and Social Sciences
- National and University Library in Zagreb

10 working groups:

- Theses and dissertations
- Scientific and related works
- Image, audio and video content
- Interoperability
- Long-term preservation
- User functionality
- Copyright
- Education & Support
- Research Data
- Educational Resources

29 institutions:

ADU, DHMZ, DZIV, FFOS, FFZG, FOI, FSB, HRZ, **IEF**, **IPU**, IRB, IRO, KIF, MEDRI, MEF, MEFST, MUZA, NCVVO, NSK, PMF, PRAVRI, PTFOS, Srce, SVKRI, SVKST, UFZG, UNIOS, UNIPU, UNIZD



Roadmap 2018

- Research data (datasets) by the end of November 2018
 - First dataset: <https://urn.nsk.hr/urn:nbn:hr:232:359736>
 - RegCM4 Climate Change Adaptation Simulations
 - (Croatian Meteorological and Hydrological Service)

Infrastructure for FAIR data?

- Findable (PID, rich metadata, search funct., services)
- Accessible (HTTP)
- Interoperable (open formats, MODS/DC/DataCite, links)
- Re-usable (License, domain standards?)

Klimatska istraživanja

ZAHTEVAJU VELIKE RAČUNALNE BRZINE I VELIKE SMJEŠTAJNE KAPACITETE ZA IZLAZNE PODATKE


Analizom dosadašnjih istraživanja utjecaja klimatskih promjena na sektore Republike Hrvatske zaključeno je da se većina istraživanja bavi specifičnim aspektima unutar sektora te da nedostaju istraživanja koja bi se bavila cjelinom određenog fenomena.

Nakon utvrđene potrebe za intenzivacijom istraživanja vezanih uz utjecaje, raritost i prilagodbu klimatskih promjena 2016. godine Ministarstvo zaštite okoliša i energetske (MZOE) pokrenulo je projekt „Jačanje kapaciteta Ministarstva zaštite okoliša i energetske za prilagodbu klimatskim promjenama te priprema Nacrta Strategije prilagodbe klimatskim promjenama“ u sklopu kojega je izrađen „Nacrt Strategije prilagodbe klimatskim promjenama u Republici Hrvatskoj za razdoblje do 2040. godine s pogledom na 2070. godinu“.

Klimatske simulacije potrebne za izradu Nacrta izvršili su djelatnici DHMZ-a koji nove metode istraživanja klimatskoga sustava pomoću klimatskih modela primjenjuju još od početka stoljeća. Više informacija o projektu i rezultatima dostupno je na <http://prilagodba-kimi.hr>.

razvoj i primjena **globalnih klimatskih modela** - jedne od osnovnih metode u teorijskom i računalnom opisanju klimatskoga sustava

regionalni klimatski modeli - modeli koji omogućavaju tzv. dinamičku prilagodbu rezultata globalnih klimatskih modela i istraživanje razvoja klimatskoga sustava na prostornim skalama od izravno ljudskog interesa



KORIŠTENI RESURSI:

računali:
64 radna čvora
1.702 procesorske jezgre

spremiti:
220 TB HDD, 12 TB SSD i 30 TB tiska

programska podrška:
Regionalni klimatski model RegCM4;
programski jezik: Fortran 90

zadaci i alat:
GNU i Intel prevodilac, MVAFICH, NetCDF,
Ncview, NCO, ODO, GADS

POTREBNI RAČUNALNI RESURSI ✓

Resursi DHMZ-a nisu bili dostupni za ovakve kompleksne izračune, a i njihovo je primarna namjena integracija atmosferskog modela za potrebne svakodnevnne prognoze vremena. Stoga su, za potrebe projekta, korišteni resursi novonabavljene superračunala VELEBIT, za čiji su smještaj i programsko održavanje zaduženi djelatnici Srca.

Za simulaciju klimatskog modela jedne godine bilo je potrebno dva dana neprekidnog računanja. Izračun je trajao šesnaest mjeseci.

Po završetku projekta izlazne podatke dobivene regionalnim klimatskim modelom - preko 200 TB - trebalo je smjestiti i učiniti trajno dostupnima, pa je za te potrebe odabran sustav repozitorija Dabar.



Roadmap 2019

- Educational object (based on Learning Object Metadata)
- Generic document (plan, report, deliverable, technical documentation, study...)
- Central portal in 2019
- <https://dabar.srce.hr/roadmap>



Open infrastructure!



- developement
- multisite



<https://github.com/alien-z/open-source-stamp.git>

+ Jenkins, Selenium, Git, ...



Thank you!

<https://dabar.srce.hr>
dabar@srce.hr



www.srce.unizg.hr

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creativecommons.org/licenses/by-nc/4.0/deed.hr



Srce politikom otvorenog pristupa široj javnosti osigurava dostupnost i korištenje svih rezultata rada Srca, a prvenstveno obrazovnih i stručnih informacija i sadržaja nastalih djelovanjem i radom Srca.

www.srce.unizg.hr/otvoreni-pristup

