

Infrastructure for Open Science : Research Data and Publications

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Conference presentation / Izlaganje na skupu

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





Infrastructure for Open Science: Research Data and Publications

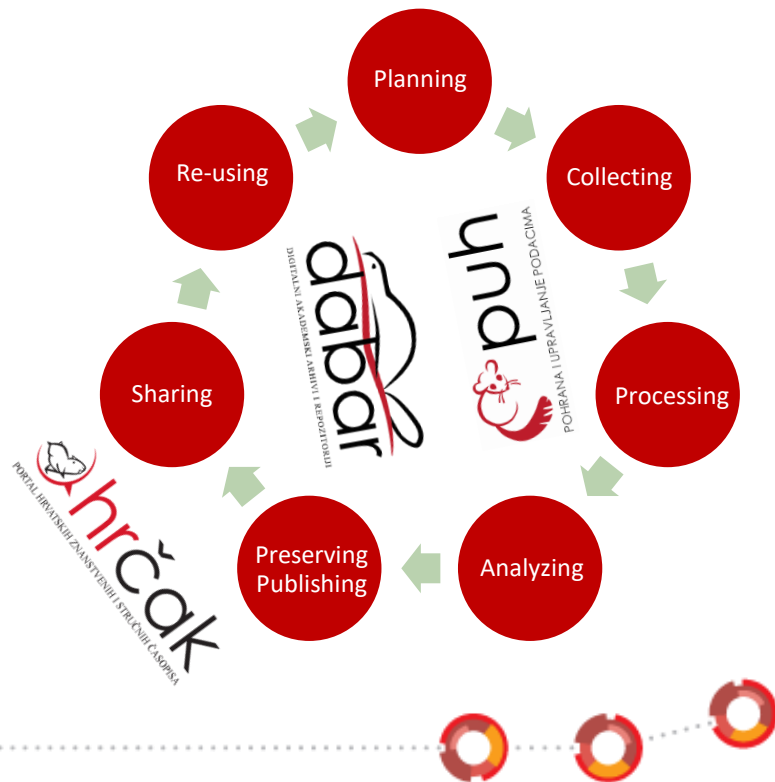
Miroslav Milinović, Draženko Celjak, Ognjen Orel
SRCE – University of Zagreb, University Computing Centre

*PUMBET2020 :The 7th Conference on Scholarly Communication and
Publishing in the Context of Open Science*

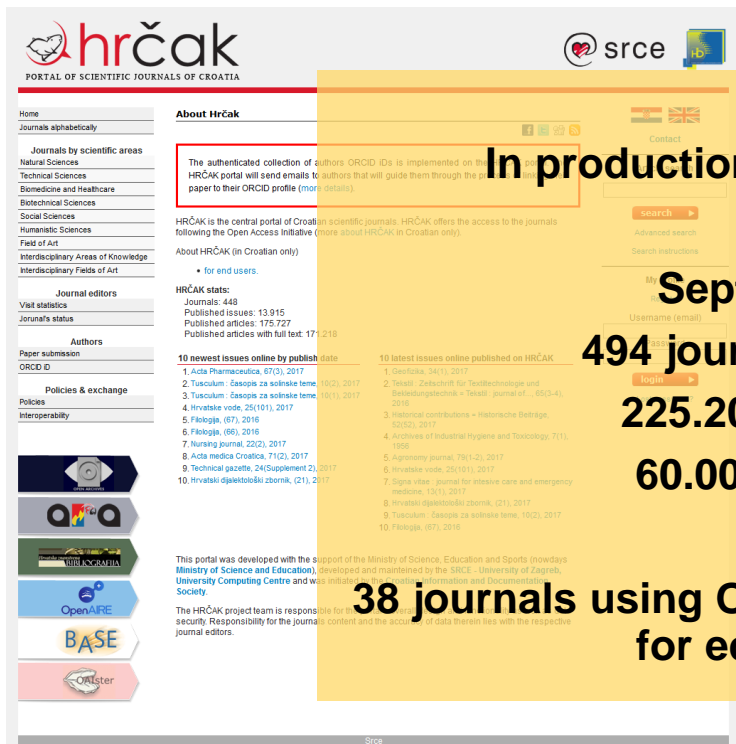
17 September 2020

Srce in Research Data Life Cycle

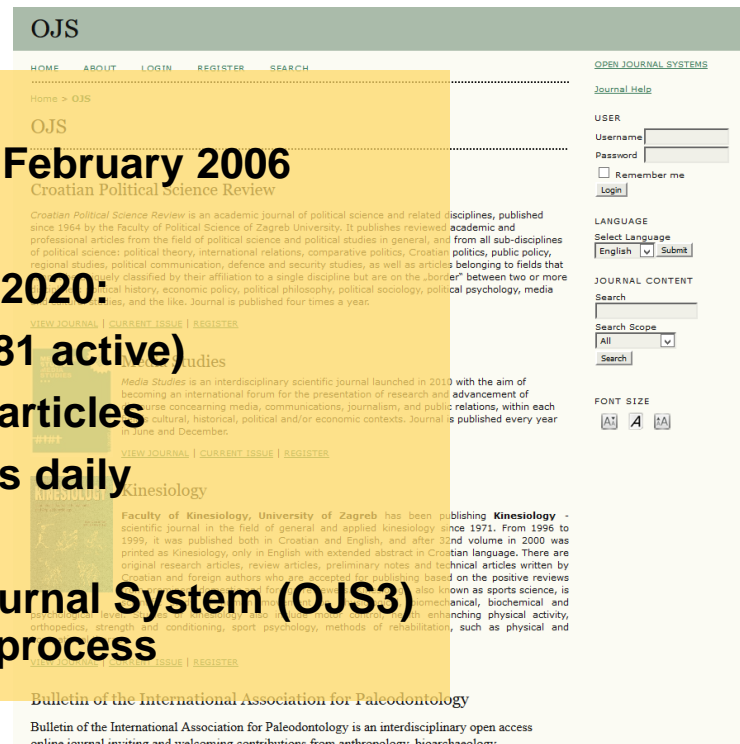
- SRCE:
 - e-infrastructure for HiEd & Research
 - ~ 50 services
 - 2 data centers
 - reliable operations (24/365)
 - ICT competence centre
 - training & support
 - actively support OA and Open Science
 - whole range of services supporting research data life cycle



HRČAK - Portal of Croatian Scientific and Professional Journals



The screenshot shows the HRČAK portal interface. At the top, there is the HRČAK logo and the SRCE logo. Below the logo, there is a navigation menu with options like Home, Journals alphabetically, Journals by scientific areas, etc. A central banner area contains a message about ORCID IDs: "The authenticated collection of authors ORCID IDs is implemented on the HRČAK portal...". Below this, there are statistics: "HRČAK is the central portal of Croatian scientific journals... About HRČAK (in Croatian only) for end users." On the left, there are sections for "Journal editors" and "Authors". At the bottom, there are logos for various partners like OpenAIRE, BASE, and ORCID.



The screenshot shows the OJS interface for the "Croatian Political Science Review". At the top, there is the OJS logo and a navigation menu with Home, About, Login, Register, and Search. Below the navigation, there is a search bar and a list of journals. The "Croatian Political Science Review" is highlighted. Below the journal title, there is a description: "Croatian Political Science Review is an academic journal of political science and related disciplines, published since 1964 by the Faculty of Political Science of Zagreb University...". At the bottom, there is a section for "Bulletin of the International Association for Paleodontology" with a description: "Bulletin of the International Association for Paleodontology is an interdisciplinary open access online journal inviting and welcoming contributions from anthropology, bioarchaeology,...

In production since February 2006

September 2020:

494 journals (381 active)

225.200+ OA articles

60.000+ visits daily

38 journals using Open Journal System (OJS3) for editorial process



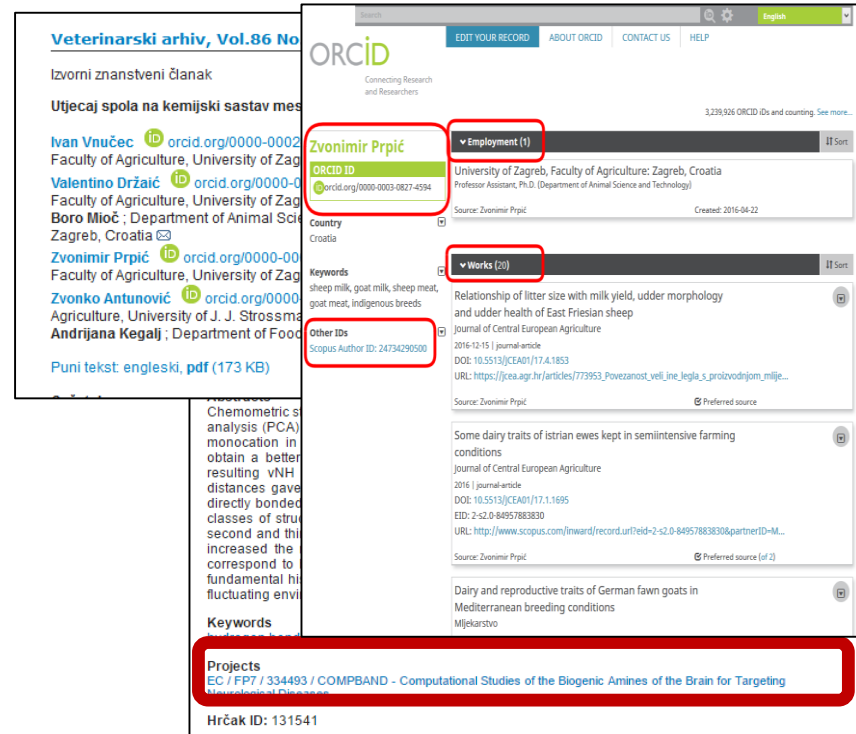
Interoperability & Unique Identifiers

• ORCID

- 17.000+ authors are using their ORCID iDs
- 43.300+ connections between papers and ORCID

• funder / project information

- OpenAIRE (FP7, H2020, WellcomeTrust...)
- PDB@IRB (MZO, HRZZ)



The screenshot displays an ORCID profile for Zvonimir Prpić. The profile includes the following sections:

- Employment (1):** University of Zagreb, Faculty of Agriculture; Zagreb, Croatia. Professor Assistant, Ph.D. (Department of Animal Science and Technology). Source: Zvonimir Prpić. Created: 2016-04-22.
- Works (20):**
 - Relationship of litter size with milk yield, udder morphology and udder health of East Friesian sheep. Journal of Central European Agriculture. 2016-12-15 | journal-article. DOI: 10.5513/JCEA01/17.4.1853. URL: https://jcea.agr.hr/articles/773953_Povezanost_veli_ine_legla_s_proizvodnjom_milje... Source: Zvonimir Prpić. Preferred source.
 - Some dairy traits of istrian ewes kept in semintensive farming conditions. Journal of Central European Agriculture. 2016 | journal-article. DOI: 10.5513/JCEA01/17.1.1695. EID: 2-52.0-84957883830. URL: http://www.scopus.com/inward/record.url?eid=2-52.0-84957883830&partnerID=M... Source: Zvonimir Prpić. Preferred source (of 2).
 - Dairy and reproductive traits of German fawn goats in Mediterranean breeding conditions. Mljekarstvo.
- Projects:** EC / FP7 / 334493 / COMPBAND - Computational Studies of the Biogenic Amines of the Brain for Targeting Neurological Diseases. Hrčak ID: 131541.

Red boxes highlight the ORCID ID, the Employment section, the Works section, and the Projects section.



Advanced Formats

- XML format
 - JATS - Journal Article Tag Suite (NISO standard)
 - content mining
 - format migration
 - presentation (references, tables,...)

- 31 journals / 164 issues / 1834 articles



Current Development: Rewrite

- easier maintenance and adding of new functionalities
- visual and logical redesign of the interface
- **possibility to link paper with research data (identifier or URL)**
- **possibility of adding supplements to the paper**
- support for mobile technologies
- interface compliant with accessibility standards



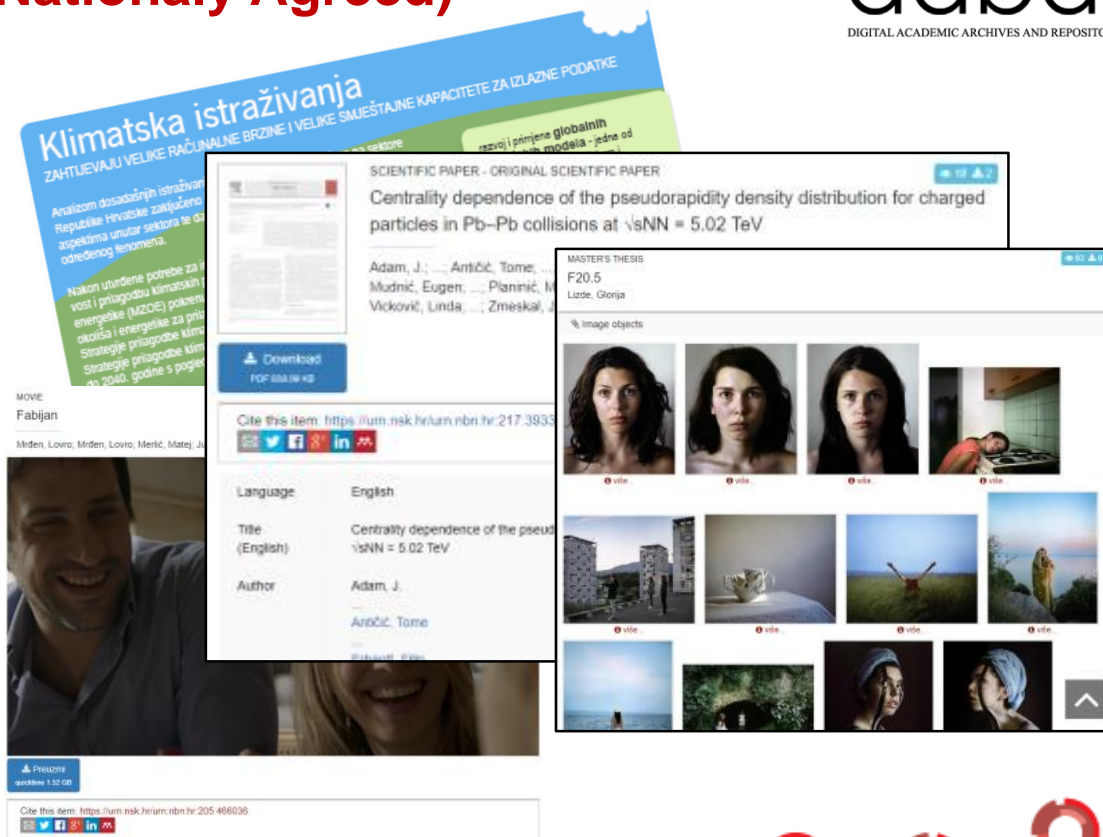
DABAR – Digital Academic Archives and Repositories

- in production since August 2015
- 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
- September 2020:
 - 142 repositories of Croatian HiEd & Research institutions (2 national repositories)
 - 128.800+ objects
 - 45,5% OA



15 Digital Object Types (Nationally Agreed)

- Journal articles
- Papers published in proceedings
- Books
- Book chapters
- Conference abstracts and presentations
- Other document types: reports, plans, technical documentation, studies,...
- Theses
- Artistic theses
- Dissertations
- Appendices
- Photographs
- Audio objects
- Audio-visual objects
- Research data (**FAIR datasets**)
- Educational resources: experiments, courses, demonstrations,...



Klimatska istraživanja
ZAHTEVAJU VELIKE RAČUNALNE BRZINE I VELIKE SMJEŠTAJNE KAPACITETE ZA IZLAZNE PODATKE

Analizom dosadašnjih istraživanja Republike Hrvatske zaključeno aspektima unutar sektora te da određenog fenomena.

Nakon utvrđene potrebe za i vrst i prilagodbu klimatskih i energetske (MZO) pokrenu okoliša i energetske za priču Strategije prilagodbe klim do 2040. godine s pogled

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, ... Mudnić, Eugen, ... Planinić, M, ... Vicković, Linda, ... Zmeskal, J

Download PDF 334.1K KB

Cite this item: <https://um.nsk.hr/um.nbn.hr/217.3833>

Language: English

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

Author: Adam, J., ... Antičić, Tome

MASTER'S THESIS
F20.5
Ložbe, Gorja

% Image objects

Movie: Fabijan

Miden, Lovro; Miden, Lovro; Merić, Matej; J

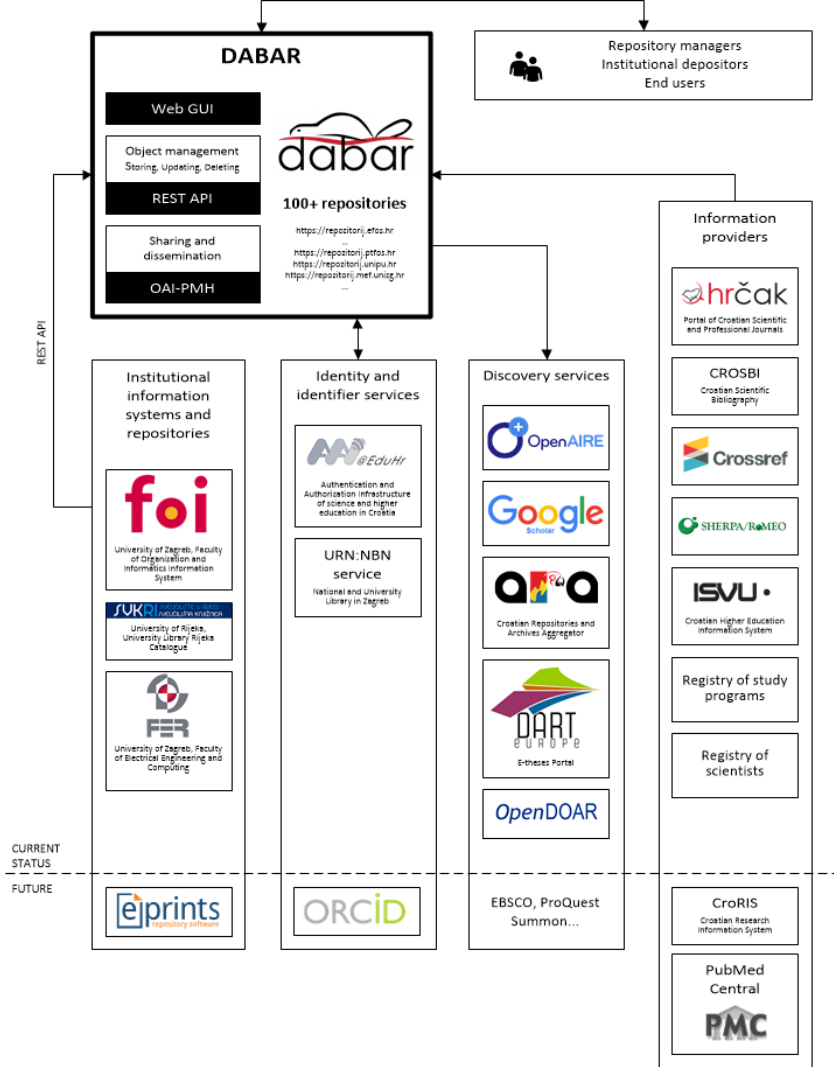
Download 1.52 GB

Cite this item: <https://um.nsk.hr/um.nbn.hr/205.468036>



Interoperability

- with national and global services & e-infrastructure(s)



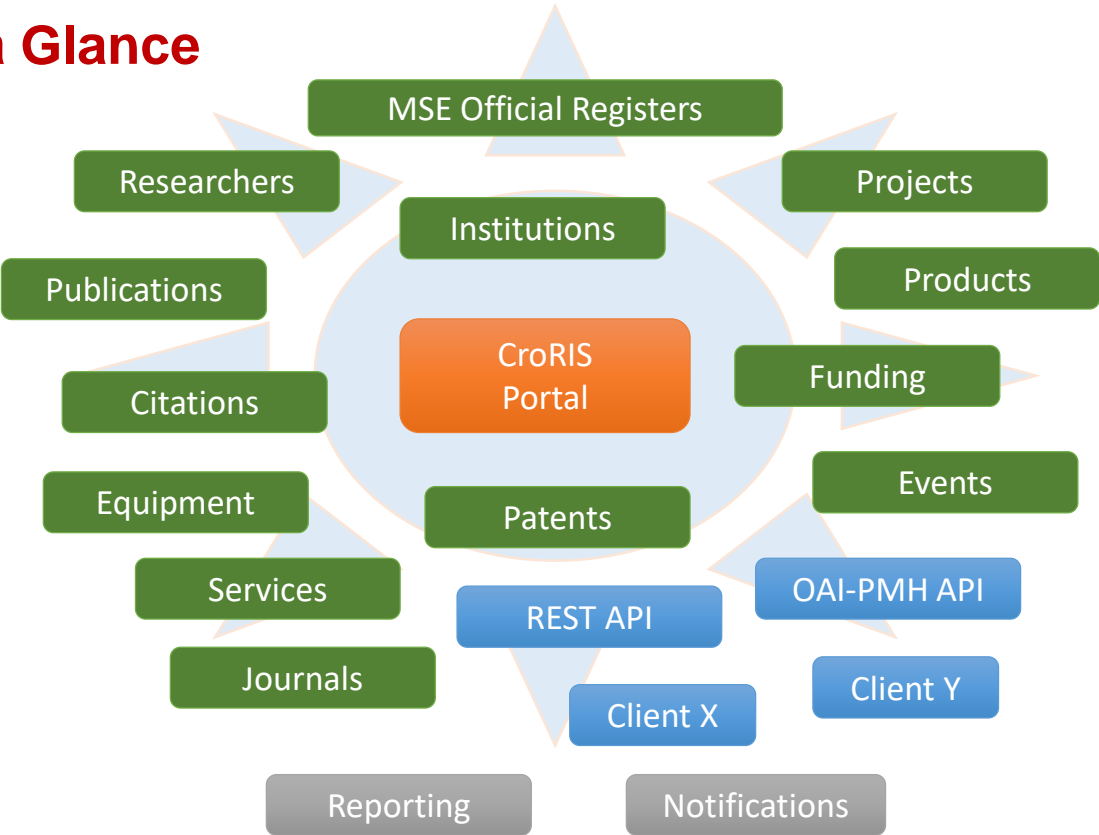
CroRIS - Croatian Research Information System

- part of Scientific and Technological Foresight project (EU funded)
- in development until Dec 2022
- will be gradually put in production

- CroRIS will
 - provide comprehensive, complete and reliable (accurate) RI in Croatia
 - be the foundation for decision making on all levels
 - facilitate and promote open science
 - support the business needs of
 - MSE and other government institutions regarding research and science
 - institutions
 - researchers
 - be open and interoperable with other systems in Croatia and abroad



CroRIS at a Glance



CroRIS - Future Interactions

Universities

Higher education

Institutes

Individuals

Management / administrators / researchers / libraries / repositories

Ministry of Science and Education

National Council for Science ...

National and University Library

Croatian Science Foundation

Croatian Employment Institute

Ministry of Public Administration

Agency for Science and Higher Education

Agency for Mobility and EU Programmes

Croatian Intellectual Property Office

Croatian Bureau of Statistics

Ministry of Economy

CroRIS

Other national A/R systems and repositories

Srce

RBI

OpenAIRE

ORCID

WoS

Scopus

...



Conclusion

- **HRČAK** = journal articles (with the support for linking to research data in near future)
- **DABAR** = all research outputs with institutional support (including support for research data)
- **CroRIS** will:
 - copy available metadata from HRČAK & DABAR and pair them to the existing data on researchers, projects, publications, journals and like
 - provide a more comprehensive research information to the public
 - enable the deep linking between the systems
- provide information to HRČAK & DABAR about researchers, institutions, projects, publications, events to smooth the process of data entry
- enable the users of CroRIS to initiate entry of the data (e.g. storing research data in DABAR)
- eliminate any need for data duplication
- speed up the processes



Thank you!

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

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

<https://www.srce.unizg.hr/croris> <croris@srce.hr>



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