



srce | University of Zagreb
University Computing Centre

Croatian National Research Information System - CroRIS

euroCRIS Autumn 2025 Strategic Membership Meeting

Dr. Ognjen Orel, Deputy Director
University Computing Centre (SRCE)



University computing centre - SRCE

Organisation

~ 180 employees
11 organizational units
3 locations



**supporting digital
transformation of education,
research and business in the
academic and science.**

promoting Open Science and
Open Education.



**building and operating national
e-infrastructure and digital
services**

30 public services for the needs of
the academic and scientific
community in Croatia



SRCE service catalogue



Computing and networking

Access to computer resources for demanding calculations. Infrastructure for higher education and science.



Trust and identity

Ensuring safe, reliable and efficient electronic identity management.



Data, repositories and open science

Storage and open sharing of data and other results of operations in science and higher education.



Administration and business

Development and maintenance of information systems important for the work of institutions from the system of higher education and science.



Digital education

Development of digital competences and provision of support to institutions, teachers and students for the application of e-learning technologies and tools.



Digital tools

Tools that enable or facilitate the performance of tasks in a digital environment.

SRCE for Science

INFORMATION SUPPORT



CroRIS

Croatian Research
Information System

DATA, REPOSITORY AND OPEN SCIENCE

Dabar | Hrčak | Puh
Support to Open Science



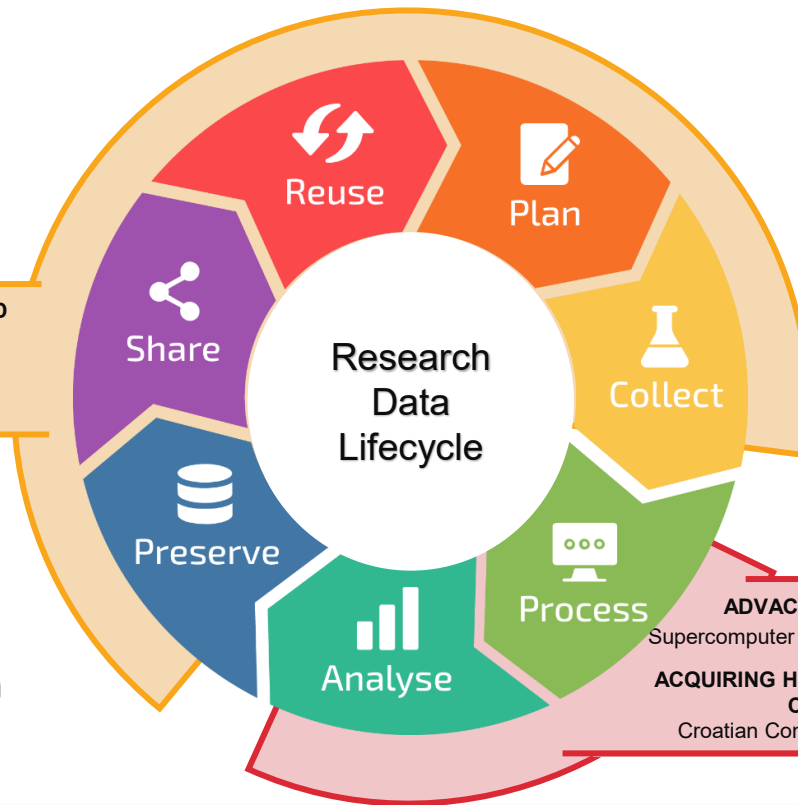
Dabar



Hrčak



Puh



Supek

ADVANCED COMPUTING

Supercomputer Supek | resource Vrančić

ACQUIRING HPC COMPETENCE AND CONSULTING

Croatian Competence Center for HPC

Education and provision of specialized support in the use of digital resources and services



Croatian Research Information System (CroRIS)^o

- Croatian national CRIS

- Developed within project Scientific and Technological Foresight (2017-2023)
- Co-funded by European Union from European Regional Development Fund.
- CERIF based



- Promote open science
- Provide information reliability
- Ensures openness and interoperability
- Support decision making

- www.croris.hr



CroRIS

- Information and processes about institutions, researches, projects, publications, equipment, patents, services, events and much more
- Integration with many national systems and international platforms, such as **ORCID**, **OpenAire**, **WoS**, **Scopus**

- Ensuring data accuracy and quality
- Data verification
- Designated authorities and various user's roles with responsibilities





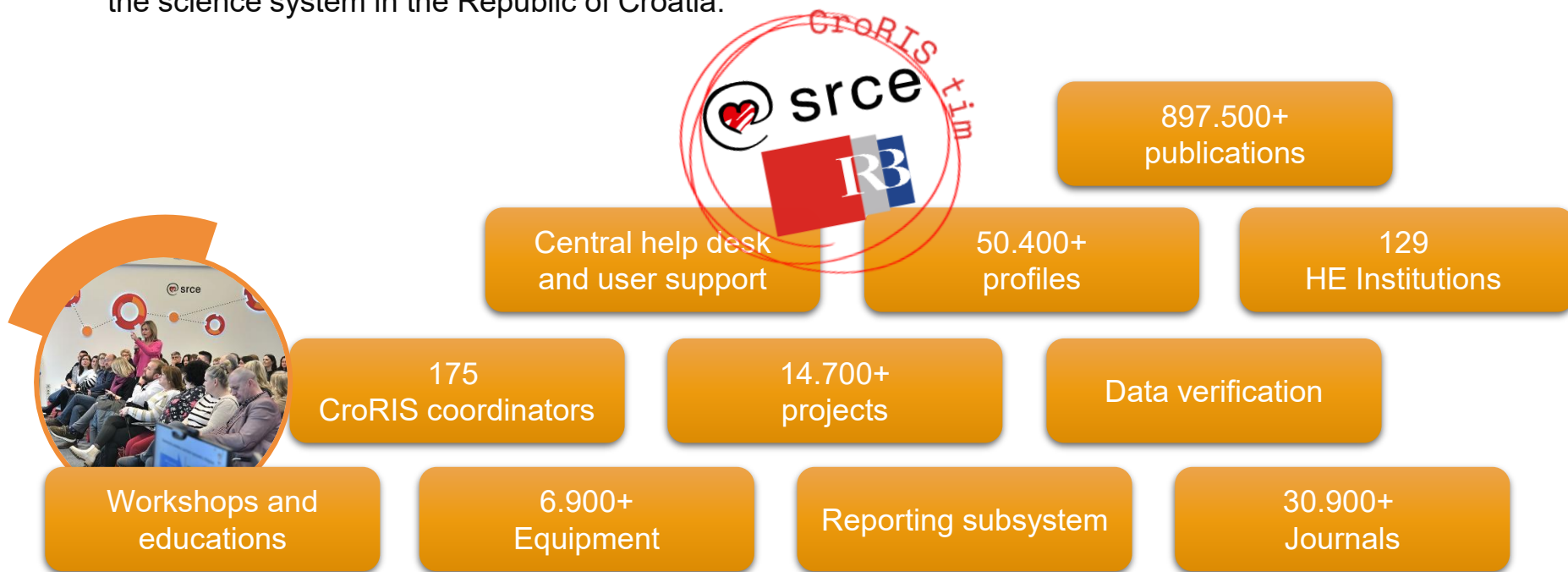
Research data in CroRIS





Performance

- A central hub that provides comprehensive, complete, and reliable information about all elements of the science system in the Republic of Croatia.



Ensuring data accuracy and quality

Designated authorities and various user's roles with responsibilities



National



REPUBLIC OF CROATIA
Ministry of Science and
Education



srce

University of Zagreb
University Computing Centre



Institutional



Institution
representatives

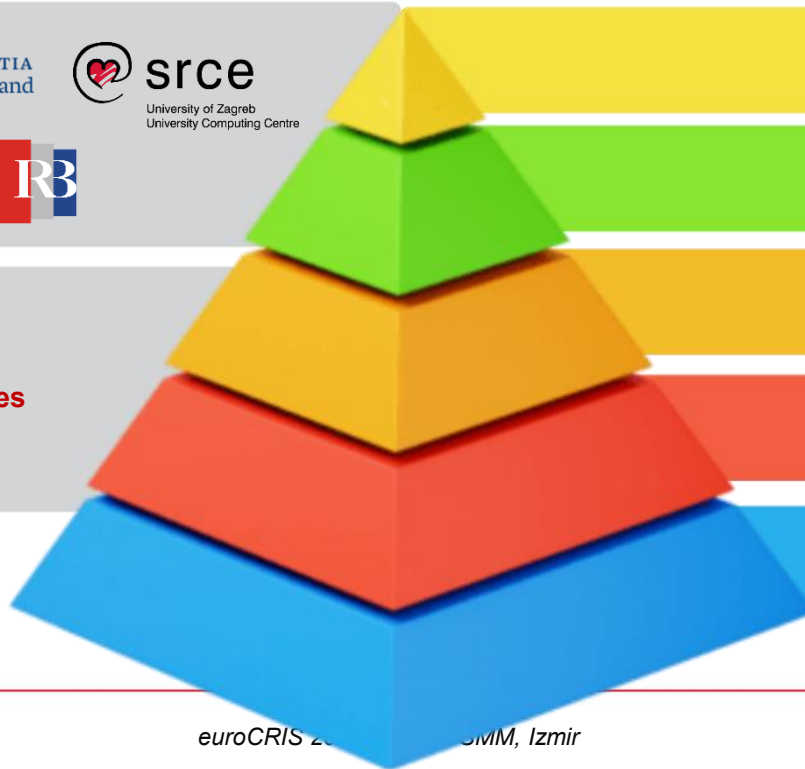
Superadmin

Admin

Coordinator

Editor

Regular user





What's **New** in CroRIS?



Integration of **Scopus & WoS** APIs with CroRIS

- Successfully integrated Scopus and Web of Science APIs with CroRIS
- Enables automated retrieval of citation data for our publications
- Matching achieved through DOI-based identification
- Provides up-to-date citation metrics directly within CroRIS





Formula Support in CroRIS

- Implemented MathJax integration in CroRIS
- Enables writing and rendering of mathematical formulas in LaTeX syntax
- Ensures accurate display of complex equations across the system
- Enhances usability for researchers in STEM

MathJax

The operator equation $\alpha X^2AY^2 + \beta XAY + A = 0$ is used to determine the structure of a projection P such that for some complex unit $\lambda \neq 1$ the mapping $P + \lambda(I - P)$ is $A \mapsto UAV$, $A \mapsto UA^*V$, or $A \mapsto UA^\dagger V$ for some fixed operators U, V . Some applications of these results are also given.



Importing Publications from Crossref

- Implemented automated import of publications from Crossref
- Retrieval based on DOI ensures high data accuracy
- Streamlines entry of publication metadata into CroRIS
- Reduces manual input and improves data consistency



Integration with the Croatian Science Foundation (HRZZ)



- The Croatian Science Foundation is the main national funding agency supporting scientific research and development in Croatia
- CroRIS established integration with the Croatian Science Foundation (HRZZ) which enables automatic import of funded research projects into CroRIS
- Integration ensures accurate synchronization of project data between HRZZ and CroRIS, reducing manual work and preventing data inconsistencies





Reports for Institutional Reaccreditation

- CroRIS implemented a major set of reports to support the reaccreditation of research institutes and higher education institutions
- Reaccreditation is a formal evaluation process carried out by the **Agency for Science and Higher Education (AZVO)** to assess institutional quality and research performance
- Reports are generated exclusively from data available within CroRIS
- These reports greatly assist institutions by providing structured, up-to-date information required during the reaccreditation process



Tablica 4.6. Kapitalna oprema

Podaci za izvještaj dohvaćeni su 05.11.2025. u 14:23 na temelju podataka iz CroRIS-a, koji su ažurirani 03.11.2025.

Napomena: Izvještaj obuhvaća opremu za koju je u sustavu evidentirana nabavna cijena koja prelazi 26.540,00 €.

CroRIS ID	Naziv instrumenta (opreme)	Engleski naziv instrumenta (opreme)	Nabavna vrijednost (EUR)	Godina nabave
1304	Kromatograf HPLC Agilent 1100 Series s DAD i FLD detektorom	High performance liquid chromatograph (HPLC) Agilent 1100 Series with DAD and FLD detector	63601.83	1904
1754	HPLC-UV/VIS-FD-RI, Thermo Separation Products	HPLC-UV/VIS-FD-RI, Thermo Separation Products	93726.99	2002
1837	MP-AES Atomski emisijski spektrometar s mikrovatnom plazmom	MP-AES Microwave Plasma-Atomic Emission Spectrometer	44045.39	1904
2560	Milkoscan FT 3	Milkoscan FT 3	144618.51	2020
2945	Prijenosni fluorescentni analizator za odleđivanje koncentracije elementa u tlu	Prijenosni fluorescentni analizator za odleđivanje koncentracije elementa u tlu	34507.93	2019
3368	Plinski kromatograf-spektrometar masa opremljen stanicom za automatsku pripravu uzoraka	Plinski kromatograf-spektrometar masa opremljen stanicom za automatsku pripravu uzoraka	157609.16	2020
3373	Spektrometar masa q-TOF	Spektrometar masa q-TOF	212339.9	2020
3377	HPLC System Vanquish Horizon	HPLC System Vanquish Horizon	36498.77	2020
3379	Komore za rast biljnog tkiva i biljaka	Komore za rast biljnog tkiva i biljaka	50434.67	2019
3491	ICP-MS	ICP-MS	157276.53	2021

Tablica 5.2. Istaknute publikacije ustanove objavljene u petogodišnjem razdoblju

Podaci za izvještaj dohvaćeni su 05.11.2025. u 14:24 na temelju podataka iz CroRIS-a, koji su ažurirani 03.11.2025.

Informacijski sustav pokazatelja i kvalitete (ISPIK) na zahtjev preuzima ovaj izvještaj iz CroRIS izvještajnog sustava.

R. br.	CroRIS ID	Referencija publikacije	Vrsta rada	Vrsta rada (engleski)	Broj citata u WoSCC-u	Broj citata u Scopusu
1	270411	Ilakovac, Branka ; Voća, Neven ; Pezo, Lato ; Cerjak, Marija Quantification and determination of household food waste and its relation to sociodemographic characteristics in Croatia // Waste management, 102 (2020), 231-240. doi: 10.1016/j.wasman.2019.10.042	rad u časopisu	Journal paper	99	113
2	270703	Fathi, Milad ; Vinceković, Marko ; Jurić, Slaven ; Viskić, Marko ; Režek Jambak, Anet ; Donsi, Francesco Food-Grade Colloidal Systems for the Delivery of Essential Oils // Food reviews international, 37 (2021), 1; 1-45. doi: 10.1080/87559129.2019.1687514	rad u časopisu	Journal paper	56	66
3	272731	Kadoić Balaško, Martina ; Bažok, Renata ; Mikac, Katarina M. ; Lemic, Darija ; Pajač Živković, Ivana Pest Management Challenges and Control Practices in Codling Moth: A Review // Insects, 11 (2020), 1; 38, 22. doi: 10.3390/insects11010038	rad u časopisu	Journal paper	59	78
4	275790	Jurić, Slaven ; Sopko Stracenski, Katarina ; Król- Kilińska, Żaneta ; Žutić, Ivanka ; Fabek Uher, Sanja ; Đermić, Edyta ; Topolovec- Pintarić, Snježana ; Vinceković, Marko The enhancement of plant secondary metabolites content in Lactuca sativa L. by encapsulated bioactive agents // Scientific reports, 10 (2020), 1; 3737, 12. doi: 10.1038/s41598-020-60690-3	rad u časopisu	Journal paper	44	63
5	277669	Zgorelec, Željka ; Bilandžija, Nikola ; Knez, Kristina ; Galić, Marija ; Žužul, Silva Cadmium and Mercury phytostabilization from soil using Miscanthus × giganteus // Scientific reports, 10 (2020), 6685, 10. doi: 10.1038/s41598-020-63488-5	rad u časopisu	Journal paper	57	83
6	278829	Svečnjak, Lidija ; Marjanović, Zvonimir ; Okrińczyc, Piotr ; Marek Kuś, Piotr ; Jerković, Igor Mediterranean Propolis from the Adriatic Sea Islands as a Source of Natural Antioxidants: Comprehensive Chemical Biodiversity Determined by GC-MS, FTIR-ATR, UHPLC-DAD-QqTOF-MS, DPPH and FRAP Assay // Antioxidants, 9 (2020), 4; 337, 32. doi: 10.3390/antiox9040337	rad u časopisu	Journal paper	69	74
7	279933	Gao, Ying ; Wei, Wei ; Fan, Zhongqi ; Zhao, Xiaodan ; Zhang, Yiping ; Jing, Yuan ; ... Jemrić, Tomislav ; Jiang, Cai-Zhong ; Fu, Da-Qi Re-evaluation of the nor mutation and the role of the NAC-NOR transcription factor in tomato fruit ripening // Journal of experimental botany, 71 (2020), 12; 3560-3574. doi: 10.1093/jxb/eraa131	rad u časopisu	Journal paper	179	185



Integration Between ISVU and CroRIS

- Established automated daily data synchronization between the National Student Management System (ISVU) and CroRIS
- Enhances monitoring of activities of PhD students through reliable data exchange
- Over 65,800 publications, 3,300 projects, and 1,200 events synchronized for more than 11,000 PhD students
- Ensures consistency and accuracy of doctoral activity data across both systems
- Reduces manual data entry and administrative workload for ISVU users





Advanced Linking of Publications and Researcher Profiles

- Introduced advanced functionality in the CROSBİ module enabling fast and easy linking of existing publications with researcher profiles in CroRIS
- Uses pattern recognition and text analysis algorithms to automatically identify publications potentially associated with an author, editor, or mentor
- Automatically suggests potential matches to researchers for confirmation within CROSBİ

Kremenjaš, Davorin ; **Udovičić, Petra** ; Orel, Ognjen
Adapting CERIF for a national CRIS : a case study // MIPRO 2020 : proceedings. Rijeka:
Croatian Society for Information, Communication and Electronic Technology – MIPRO.
Rijeka: Hrvatska udruga za informacijsku i komunikacijsku tehnologiju, elektroniku i
mikroelektroniku - MIPRO, 2020. str. 1939-1944

Povezanost rada

Povezane osobe	Davorin Kremenjaš (CroRIS ID: 2) (autor) Ognjen Orel (CroRIS ID: 27523; MBZ: 310853) (autor)
Povezane ustanove	SVEUČILIŠTE U ZAGREBU SVEUČILIŠNI RAČUNSKI CENTAR (093) (autorova ustanova)

← Natrag

➤ Poveži me s publikacijom

Kremenjaš, Davorin ; **Udovičić, Petra** ; Orel, Ognjen
Adapting CERIF for a national CRIS : a case study // MIPRO 2020 : proceedings. Rijeka:
Croatian Society for Information, Communication and Electronic Technology – MIPRO.
Rijeka: Hrvatska udruga za informacijsku i komunikacijsku tehnologiju, elektroniku i
mikroelektroniku - MIPRO, 2020. str. 1939-1944

Povezanost rada

Povezane osobe	Davorin Kremenjaš (CroRIS ID: 2) (autor) Ognjen Orel (CroRIS ID: 27523; MBZ: 310853) (autor) Petra Udovičić (CroRIS ID: 1) (autor)
Povezane ustanove	SVEUČILIŠTE U ZAGREBU SVEUČILIŠNI RAČUNSKI CENTAR (093) (autorova ustanova)

← Natrag

✕ Ukloni povezanost



Much more to come...

- Ministry of Science, Education and Youth as the owner has developments plans for each calendar year
- We are also listening to other institutions and end users as well – each year we take care for approx 100 user RFEs
- croris.hr



The key to Success





This material is available under the Creative Commons License
Attribution 4.0 International.

According to the Open Access Policy, SRCE ensures that all research data made by SRCE is accessible and free to use by the general public, especially educational and professional information and content derived from the actions and work of SRCE.

www.srce.unizg.hr/en

creativecommons.org/licenses/by/4.0/deed.en

