



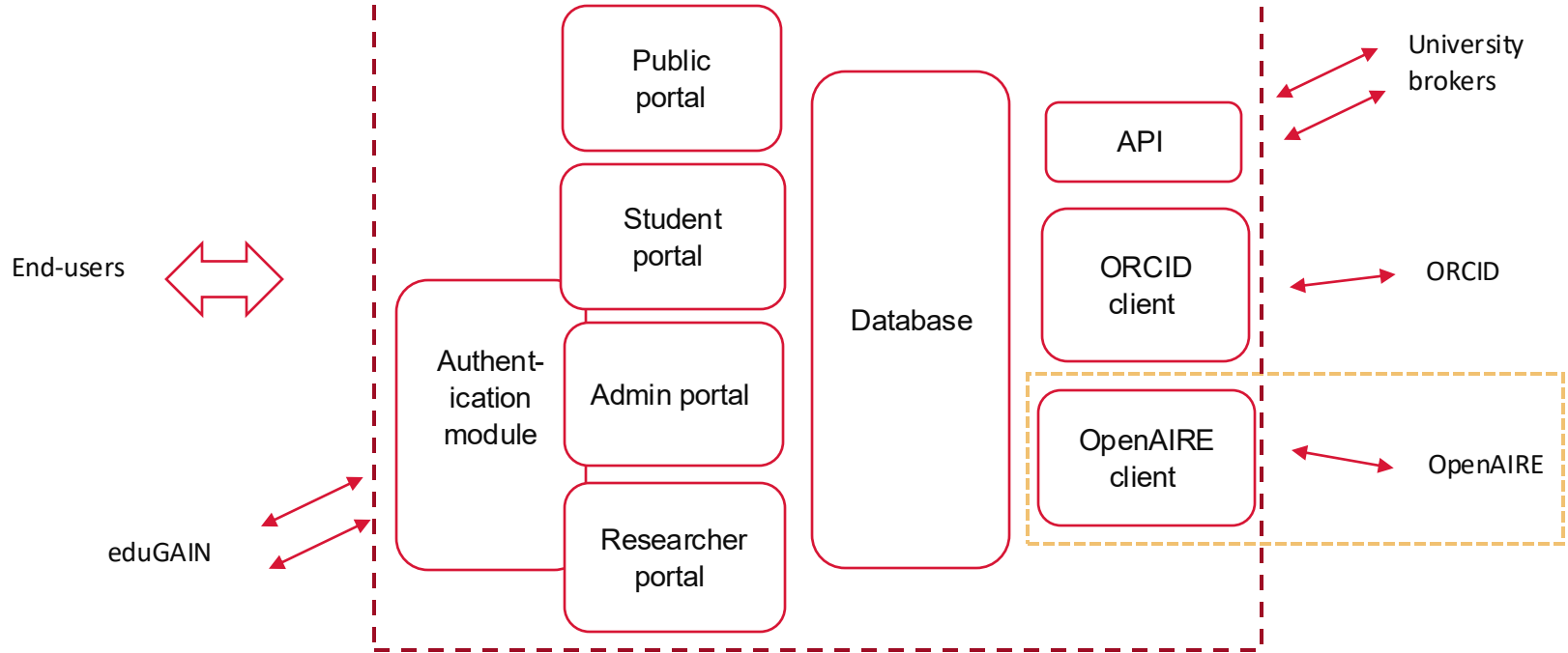
GÉANT Infoshare: OpenAIRE Graph API - UNIC Virtual Campus Use Case

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Virtual Campus



Research outputs



ⓘ These research outputs are harvested from OpenAIRE Graph Dataset, which harvests the data from local universities' repositories. If any of the data presented is not correct, please make sure it is corrected in your local university repository, and the correct entry will be propagated to OpenAIRE and consequently to UNIC Virtual Campus.

Research outputs



Title	Authors	Publication date	Publisher	Organization	Details
DEM-CFM Analysis of Undrained Cyclic Behavior in Transversely Isotropic Granular Soils under True Triaxial Loading Paths	Mohammad Salimi,Merita Tafili,Luis Felipe Prada-Sarmiento,Nazanin Irani,Theodoros Triantafyllidis,Torsten Wichtmann	01 May 2025	American Society of Civil Engineers (ASCE)	Ruhr University Bochum	
BibexPy: Harmonizing the bibliometric symphony of Scopus and Web of Science	Burak Can Kara,AiPERen Şahin,Taşkın Dirsehan	01 May 2025	Elsevier BV	Erasmus University Rotterdam	
Stakeholder experiences with compulsory treatment at home: A focus-group study	de Waardt, D. A.;Mulder, C. L.;Widdershoven, G. A.M.	01 May 2025	Elsevier BV	Erasmus University RotterdamErasmus MC	
Merging worlds	Suleri, Anna	07 May 2025	Erasmus University Rotterdam (EUR)	Erasmus University Rotterdam	
Nonpharmacological interventions to promote sleep in the adult critical patients unit	Carrera, María P.;Alegria, Leyla;Brockmann, Pablo;Repetto, Paula;Leonard, Douglas;Cádiz, Rodrigo;Paredes, Fabio;Rojas, Idalid;Moya, Ana;Oviedo, Vanessa;García, Patricio;Henríquez-Beltrán, Mario;Bakker, Jan	01 May 2025	Elsevier Ireland Ltd	Erasmus University Rotterdam	
Towards an ecological metaphor for regenerative circular economies	Zisopoulos, F.K.;Fath, B.;Meiralles De Oliveira, B.;Toboso-Chavero, S.;D'Assenza-David, H.;de Souza, V.M.;Huang, H.;Scrieci, Ş.;Clark, O.G.;Noli, D.;Singh, S.;Stefanakis, A.;Boyd, G.;Schraven, D.;de Jong, M.	01 May 2025	Elsevier BV	Erasmus University Rotterdam	
Through the lens of oncologists when communicating with non-Western migrants about cancer diagnosis, treatment, and prognosis: Results from a Dutch online survey	Asiye Gedik;Esther van Meerten;Olga Husson;Winette T.A. van der Graaf	01 May 2025	Elsevier BV	Erasmus University RotterdamErasmus MC	
A bioprinted and scalable model of human tubulo-interstitial kidney fibrosis	Daphne Bouwens,Nazanin Kabgani;Cédric Bergerbit;HyoJin Kim;Susanne Ziegler;Sadaf Ijaz;Ali Abdallah;Tams Haraszti;Sidrah Maryam;Abdolrahman Omidinia-Anarkoli;Laura De Laporte;Sikander Hayat;Jitske Jansen;Rafaël Kramann	01 May 2025	Elsevier BV	Erasmus University Rotterdam	
The effectiveness of educational interventions in enhancing health professionals' and students' pain assessment for people living with dementia	Kodagoda Gamage, Madushika W.;Pu, Lihui;Moyle, Wendy;Barton, Matthew;Todorovic, Michael	01 May 2025	Churchill Livingstone	Erasmus University Rotterdam	
Performance of two combination disk methods as confirmation for ESBL and AmpC presence in clinical Enterobacterales isolates	L. Doornekamp,C.H.W. Klaassen,W.H.A. Zandijk,W.H.F. Goessens,L.G.M. Bode	01 May 2025	Elsevier BV	Erasmus University Rotterdam	

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Research outputs – details



Research details

Title

Predictive control of a general water distribution system by using sequential linear programming

Authors

Blaž Korotaj; Mario Vašak

Contributors

Not available

Publication date

01 Mar 2025

Resource type

publication

Publisher

Elsevier BV

Organization

University of Zagreb

Language

Undetermined

Subjects

General network; Water distribution system; TECHNICAL SCIENCES. Electrical Engineering. Automation and Robotics.; Linearization; Predictive control; TEHNIČKE ZNANOSTI. Elektrotehnika. Automatizacija i robotika.; Sequential linear program

Description

The paper focusses on water distribution systems (WDSs) of a general configuration, whose operation profile is decided by solving a sequential linear program (SLP). The paper introduces linearization procedure for a general network. The necessary SLP mathematical form for a general WDS is also derived. Cost function and all the constraints for the WDS optimization are elaborated. To validate the approach, the derived procedure is applied to a toy example and to a large segment of a WDS from a city in Spain. The results are compared with the operation policy obtained using hysteresis control and substantial operational costs reduction possibilities are demonstrated while respecting all WDS constraints.

Links

<https://doi.org/10.1016/j.conengprac.2024.106232>

<https://repositorij.fer.unizg.hr/islandora/object/fer:13245>

<https://urn.nsk.hr/urn:nbn:hr:168:781646>

<https://repositorij.fer.unizg.hr/islandora/object/fer:13245/datastream/FILE0>



OpenAIRE Graph API

- **/v1/organizations/** - for each UNIC institution (by legalName) we found OpenAIRE OrganizationId stored in database along with other attributes of the institution
- **/v2/researchProducts/** - to retrieve research outputs for all ten universities participating in the UNIC European University alliance for display in the UNIC Virtual Campus
- **Daily sync job** (Java service)
 - scheduled once a day
 - uses **/v2/researchProducts/** with parameters fromPublicationDate/toPublicationDate and relOrganizationId
 - retrieves data for the previous day, e.g. on September 25th retrieve data for September 24th
- **Monthly sync job**
 - scheduled at the 1st day of the month
 - retrieves data for the entire month before the last, e.g. on September 1st Sep retrieve data for the entire July
 - additional control in case the daily sync does not retrieve all data or if some data is missed
- **Result:** before ~100 000, and now ~550 000 Research outputs in Virtual Campus
- **Future plan:** we aim to enable connection of researchers and their outputs within the Virtual Campus



Questions / discussion



Thank you!

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