Institutional Repository KTISIS: Research Evaluation and Promotion Tool

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Introduction

The continuous development of the KTISIS institutional repository following the international trends and perspectives make KTISIS a pioneer in the world of institutional repositories. KTISIS allows researchers to include their research activities in their repository account. Furthermore, through a bibliometric tool allows them to generate their CV based on the Cyprus Quality Assurance and Accreditation Agency for Higher Education (CYQAA) standard. The researchers have access to a dedicated set of functionalities that give added value to their work and the institutional repository (Zervas et al, 2018). KTISIS as a tool for promoting research shows the metrics of research impact from various bibliographic databases such as Scopus Web of Science, PubMed and Google Scholar and the alternative impact of research on the Social Network, thus providing researchers and authorities with a direct insight into research interest worldwide, giving them the opportunity to react and increase

During the previous years, KTISIS evolved and adapted to align with the evolving needs and objectives of the university. The adoption of a Performance-Based Research Fund (PBRF) by the University for the funding of researchers through criteria related to their activities which must be included in their KTISIS profile gave to KTISIS a new dynamic, making it the tool of research evaluation. The Library faced the challenge of monitoring the publications of the university researchers indicating the requirement for a comprehensive solution. The international competition at the level of universities, research centers and researchers requires institutional repositories to evolve and makes their role in providing a comprehensive overview of the research activity more important. We need the support of authorities for whom international rankings are their priority and who can understand the importance for a research institution to have the full picture on the results of the research activities carried out by its researchers

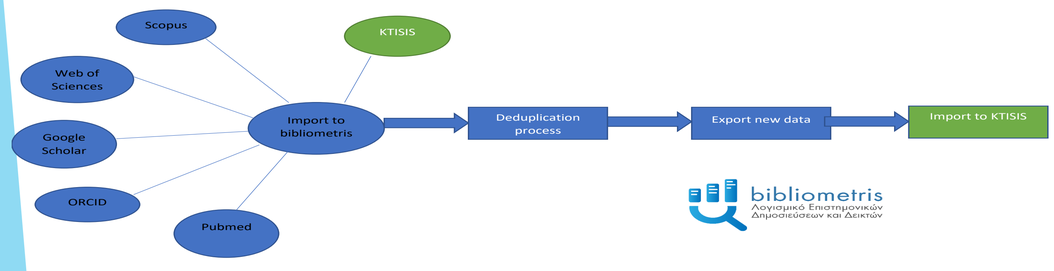
Keywords: Current research information systems (CRIS), Bibliometrics, Research evaluation, Audience: Repository managers, librarians, developers

Objectives & Repository Features

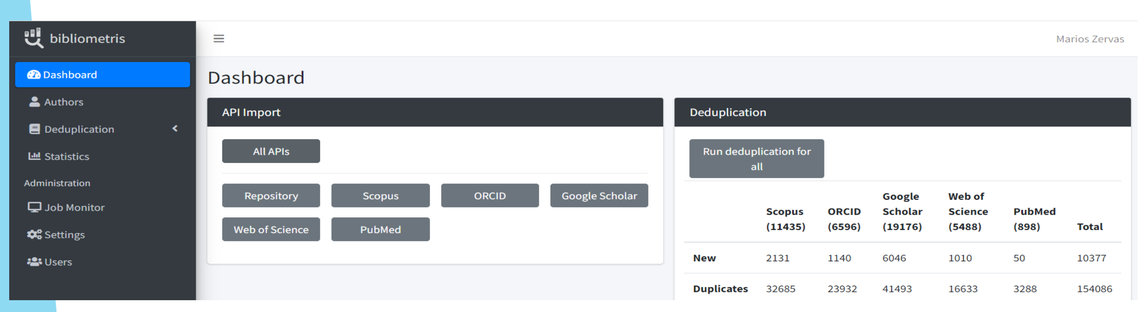
The primary goal was to store, manage, collect and disseminate the research output of all researchers affiliated with the CUT. During the previous years, KTISIS evolved and adapted to align with the evolving needs and objectives of the university. The adoption of a Performance-Based Research Fund (PBRF) by the University for the funding of researchers through criteria related to their activities which must be included in their KTISIS profile gave to KTISIS a new dynamic, making it the tool of research evaluation. The international competition at the level of universities, research centers and researchers requires institutional repositories to evolve and makes their role in providing a comprehensive overview of the research activity more important. Researchers are connected to their profile into KTISIS using ORCID credentials. Researchers should update their CV in KTISIS (example Researcher Profile). All those information makes up their curriculum vitae. They must also update their profile at least once a year in order to meet the criteria for research funding. (example of Updated CV "Curriculum vitae Cyprus Quality Assurance and Accreditation Agency for Higher Education (CYQAA) standard") The Library in collaboration with the University of West Attica and Dataly developed a Bibliometric tool that extracts the publications and profiles of researchers from KTISIS. From the researchers' profiles it uses their Scopus, Web of Sciences, Google Scholar, ORCID, Pubmed identifiers to retrieve their publications. The administrator of the Bibliometris tool then proceeds to the dedublication of the publications. The latest feature added to Bibliometris was the ability for researchers to export the results of their research in a bibliographic style.

Method

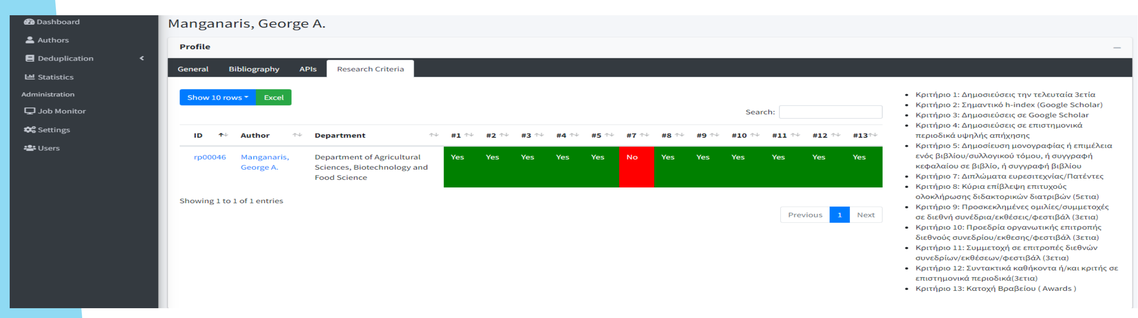
Step 1: Bibliometris offers the ability to import identifiers from KTISIS and then use them to retrieve articles, conferences papers, etc from Scopus, Wos, Google Scolar, ORCID and Pubmed. Step 2: Bibliometris offers the ability to proceed to the deduplication of records Step 3: Bibliometris offers the ability to export records in json format



Bibliometris Dasboard

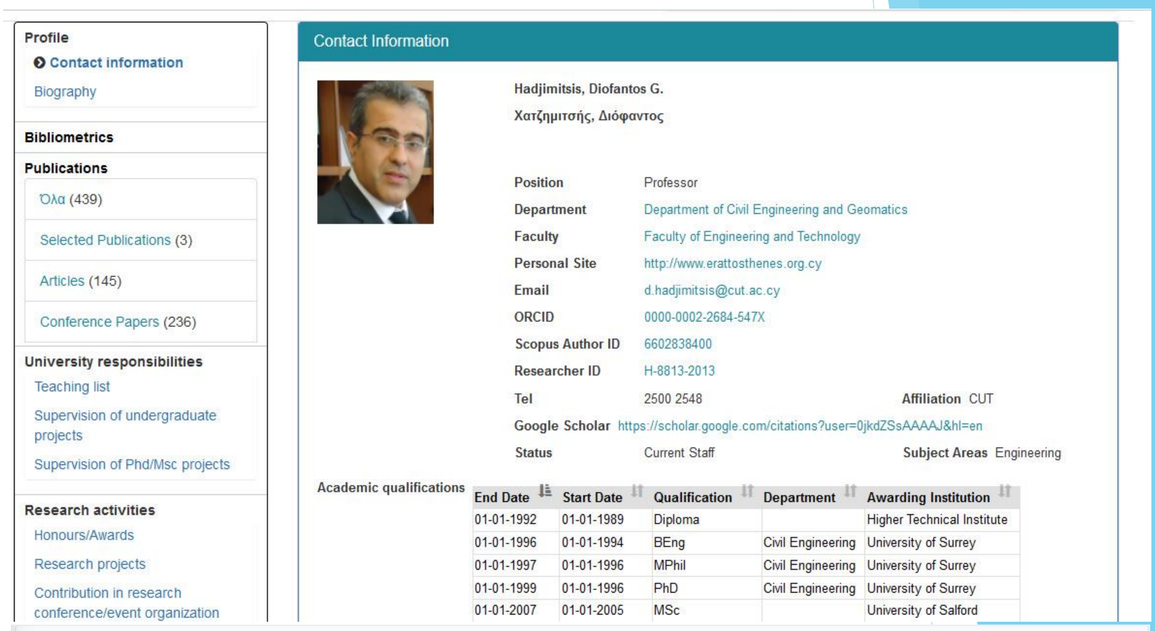


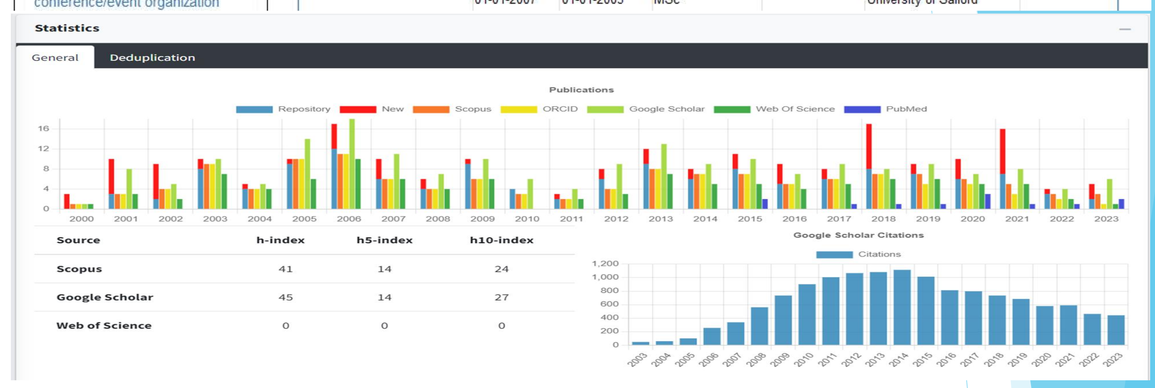
Research Funding Criteria Fulfilled at the level of an author



Criteria's 1: Publications in the last 3 years, 2: Significant h-index (Google Scholar), 3: Publications in Google Scholar, 4: Publications in high impact journals, 5: Publication of a monograph or editing of a book/collected volume, 6: Research funds 7: Patents, 8: Main supervision of successful completion of doctoral theses, 9: Invited talks/participation in international conferences/exhibitions, Chairman of the organizing committee of an international conference/exhibition/festival, 11: Participation in committees of international conferences/exhibitions, 12: Editorial duties and/or reviewer for scientific journals, 13: Awards

Researcher Profile in Ktisis





Curriculum vitae Cyprus Quality Assurance and Accreditation Agency for Higher Education (CYQAA) standard

FORM NUM: 500.1.03

Academic Personnel Short Profile / Short CV	
University:	Cyprus University of Technology
Surname:	Michaelides
Name:	Michalis P.
Rank/Position:	Assistant Professor
Faculty:	Faculty of Engineering and Technology
Department:	Department of Electrical Engineering, Computer Engineering and Informatics
Scientific Domain: *	Signal Processing, Computer Networks and Communications, Control and Systems Engineering, Environmental Engineering, Applications to environmental monitoring, Smart buildings and smart transport, Communication Systems, Wireless Sensor Networks, Event detection and localization, Intelligent systems

Field of Specialization

Academic qualifications (list by highest qualification)				
Qualification	**Year**	**Award Institution**	**Department**	**Thesis title (Optional Entry)**
Ph.D. Electrical Engineering	2009	University of Cyprus	Electrical and Computer Engineering	Distributed Event Detection and Localization in Wireless Sensor Networks
M.S. Electrical Engineering	1998	Purdue University	Electrical and Computer Engineering	
B.S. Electrical Engineering	1997	Purdue University	Electrical and Computer Engineering	

Employment history in Academic Institutions/Research Centers – List by the three (3) most recent				
Period of employment		**Employer**	**Location**	**Position**
From	**To**			
2017		Cyprus University of Technology	Limassol, Cyprus	Assistant Professor
2012	2017	Cyprus University of Technology	Limassol, Cyprus	Lecturer
2009	2011	KIOS Research Center	Nicosia, Cyprus	Research Fellow
2005	2009	University of Cyprus	Nicosia, Cyprus	Research / Teaching Assistant
2002	2007	Nicosia Race Club	Nicosia, Cyprus	Information Tech. Officer
1999	2002	MEDVISION	Nicosia, Cyprus	Medical Service Engineer

Publications						
Ref #	**Year**	**Title**	**Other Authors**	**Journal/Publisher/Conference**	**Vol**	**Pages**
1	2023	Berth Allocation Considering Multiple Quays: A Practical Approach Using Cuckoo Search Optimization	Aslam, Sheraz, Herodotou, Herodotos	Journal of Marine Science and Engineering	11	
2	2022	A Review of Field Measurement Studies on Thermal Comfort, Indoor Air Quality and Virus Risk	Kyriacou, Alexis, Kakoulli, Christina	Atmosphere	13	1-43
3	2022	Enhanced Berth Allocation Using the Cuckoo Search Algorithm	Aslam, Sheraz, Herodotou, Herodotos	SN Computer Science	3	1-15
4	2022	An Intelligent Framework for Vessel Traffic Monitoring Using AIS Data	Evmides, Nicos, Odysseos, Lambros, Herodotou, Herodotos	23rd IEEE International Conference on Mobile Data Management		413-418
5	2022	Optimizing Multi-Quay Berth Allocation using the Cuckoo Search Algorithm	Aslam, Sheraz, Herodotou, Herodotos	International Conference on Vehicle Technology and Intelligent Transport Systems		

Research Projects. List the five (5) more recent.				
Ref #	**Date**	**Title**	**Funded by**	**Project Role***
1	October 2019 - September 2026	ERATOSTHENES: Excellence Research Centre for Earth Surveillance and Space-Based Monitoring of the Environment	European Commission	Principal Investigator
2	June 2019 - May 2020	Synergistic Use of Optical and Radar data for cultural heritage applications (PLACES)		Co-Investigator
3	November 2018 - October 2022	REmote SEnsing techniques for ARCHaeology	EC	Principal Investigator
4	June 2018 - May 2020	Advancement of Tree Structure Observation Algorithms for FOREST Monitoring		Principal Investigator
5	March 2018 - February 2023	Διασυνοριακή συνεργασία για εφαρμογή Θαλάσσιου Χωροταξικού Σχεδιασμού - ΘΑΛ-ΧΩΡ 2	European Union	Participant

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees. List the five (5) more recent (Optional Entry)				
Qualification	**Period**	**Organization**	**Title of Position or Service**	**Key Activities**
1	01/01/2010 - 01/01/2017	UCGIS GI S&T Body of Knowledge	Advisory board member at UCGIS GI S&T Body of Knowledge	

Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref #	**Year**	**Title**	**Awarded by**
1	2019	AWARD : for the Teaming Project Excelsior	24th of September 2019 in Brussels. Award for Diofantos Hadjimitsis as Coordinator: During the event Jean-Eric Paquet, Director-General for Research and Innovation congratulated the 14 Teaming proje...

Conclusion

The KTISIS Institutional Repository was established to store, manage, collect, and disseminate research output from all researchers affiliated with the CUT. It has evolved to align with the university's evolving needs and objectives. The adoption of a Performance-Based Research Fund (PBRF) by the university has made KTISIS a tool for research evaluation. The Library faces the challenge of monitoring university researchers' publications, indicating the need for a comprehensive solution. Institutional repositories must evolve to provide a comprehensive overview of research activity, especially in international competition. The support of authorities who prioritize international rankings and understand the importance of research institutions having a full picture of their researchers' results is crucial.

Future plans

The deduplication procedure has resulted in the export of new records in JSON format, which are not included in KTISIS. The aim is to import these records into KTISIS, but human intervention is more important than the current DSpace-cris software. Research data is crucial for scientific communication and policy implementation, and can be used in multiple levels, such as university ranking lists, partnership development, monitoring research, and funding research based on performance. The plan is to enhance the dissemination of university research on social networks and offer monitoring and promotion of research at various levels, including faculty, departments, researcher centers, and researchers.

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KTISIS Institutional Repository Cyprus University of Technology
ORCID Connecting Research and Researchers
DSPACE CRIS