

Call for Papers

5th International Workshop on Methods, Resources and Technologies for Open Learning and Research (MROL 2021)

Co-located with the 17th International Conference on ICT in Education, Research, and Industrial Applications: Integration, Harmonization, and Knowledge Transfer (ICTERI 2021)

September 28, 2021, Kherson – Ukraine

<http://icteri.org/icteri-2021>

Proceedings: CEUR-WS, indexed by DBLP, Scopus, Web of Science
Post-proceedings: Springer CCIS (acceptance pending), indexed by: DBLP, EI-Compendex, Mathematical Reviews, SCImago, Scopus



Venue: Kherson State University

MROL 2021 at a Glance

This Workshop is designed to consider the state of the art and potential benefit of new and emerging technologies application within the open systems of higher education. The aim is to explore the use of open education and research tools, resources and methods for forming creative and ICT-competent people in view of European Research Area development. This should be in line with the priorities of open science, open communication and open data access and delivery, and the widespread use of cloud learning resources, platforms and infrastructures to support learning and research in open higher education systems. Workshop topics are related to big data, smart data, data and resources of the European Open Science Cloud (EOSC), adaptive data processing and analytics, smart learning and research environment to provide effective technologies for data access and processing.

The Workshop aims at:

- (i) Exploration and use of open education and open research tools, resources and methods for forming the creative and ICT competent person in view of European Research Area development.
- (ii) Considering and evaluating the realization of the design and development of open systems of higher education.

Important Dates

(23:59 Hawaii time)

- Monday, 14.06.2021 – paper submission deadline
Monday, 12.07.2021 – acceptance notification for papers
Monday, 30.08.2021 – submission of camera-ready papers
Monday, 06.09.2021 – presentation submission deadline
Tuesday, 28.09.2021 – workshop day

Workshop Language: English

No Fees

The Workshop does not charge any conference fee. Participation is FREE; ICTERI 2021 sponsors cover expenses.

The Scope of MROL

Nowadays, an effective and promising approach to open pedagogical systems design is the use of the cloud computing technologies to provide ICT support for the functioning and development of the computer-based educational and research environment. Innovative technological solutions for learning environment organisation and design using cloud computing (CC) and ICT outsourcing show promise and usefulness. The

challenges of making the ICT infrastructure of the university environment fit the needs of its users, taking maximum advantage of modern network technologies, and ensuring the best pedagogical outcomes leads to the search for the most reasonable ways of its modernization.

The open science processes are related to open access to research data, open discussion and analysis of research results and open communication with society. To support these processes, the corporate or hybrid cloud-based university environments are useful as the essential components (accomplishments) for the resources of the various public information networks such as research infrastructures and social networks. Thus, the analysis of the principles and essential features of the structure and design of the cloud-based learning and research university environment becomes additionally valuable because of its the open science processes support.

The Workshop should lead to benchmarking the state of the art and defining the future prospects for open systems of higher education design and development, with the focus on the most valuable trends, methods, tools and technologies driving the innovative development of educational environment.

The learner' competencies needed for the open educational and research systems development including higher responsibility, collaborative skills, leadership, creative thinking, taking the problem in general and others are to be considered and explored. **Topics of interest** include, but are not limited to:

- ICT and Models, Technologies and Resources of Distance and Enhanced Learning.
- Smart-systems of Open Learning and Research: STEM Education, Learning Robotics, Knowledge Extraction, Engineering and Management, Learning and Scientific Analytics, Internet of Things, Block Chain.
- Methods, Technologies and Resources for Virtual and Remote Laboratories, Virtual and Augmented Reality in Open Learning.
- ICT Competence in Open Systems Design and Development.
- Quality Assurance of ICT Education: Methods, Resources and Technologies.
- Research Infrastructures for Open Science.
- Mobile Resources and Ubiquitous Computing in Open Education.
- Multimedia, Simulation, Virtualization Technologies and Open Learning Resources.
- Data Computing, Artificial Intelligence and Machine Learning for Open Education and Research etc.

Submission Types and Requirements

MROL solicits:

- (i) Regular (full) research papers,
- (ii) Short research papers,
- (iii) Discussion or problem analysis papers.

All papers must describe the original work not previously published or submitted elsewhere, including other workshops of this conference.

Submission Instructions and Publication

The language of the Workshop is English. All submissions shall be annotated by the key words/phrases freely chosen by the authors. At least three and at most five key phrases should be provided.

All submissions must comply with the Springer CCIS format guidelines. Formatting instructions and template as well as submission guidelines are provided for your convenience at the ICTERI 2021 web site: <http://icteri.org/icteri-2021>. Submissions must be made in .pdf by using **EasyChair** System: <https://easychair.org/conferences/?conf=icteri2021>. Please submit your paper to the **ICTERI-2021 MROL Workshop** Track. The papers accepted for MROL will be published as a part of the proceedings of ICTERI 2021 online at CEUR-WS (indexed by Scopus).

The best Workshop papers selected by the ICTERI 2021 Steering Committee may be invited to be revised and extended for the ICTERI post-proceedings volume. The post-proceedings of ICTERI are traditionally published by Springer Communications in Computer and Information Science (CCIS) series.

Evaluation and Presentation

Every submission will be evaluated by at least three members of the MROL Program Committee. Based on evaluation results, the best papers will be accepted for their presentation at the workshop.

It is strongly required that at least one author of an accepted paper attends the workshop in person and presents their paper. Workshop organizers will withdraw the paper from the publication in CEUR-WS proceedings if the author(s) do not attend the workshop. The paper evaluation system is described in more detail at the link: <http://icteri.org/icteri-2021/evaluation-criteria>.

Chairs

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The Program Committee may be expanded.

How to Get to Kherson

Kherson is the regional capital city in the South of Ukraine. It is a nice and calm city with many nations living in one comfortable place. It is famous for its traditions of Southern-Ukrainian hospitality. Kherson region is also known for its passion and effort in protecting and maintaining natural environment. The city and neighborhood offer abundant attractions for traditional and ecological tourism. Kherson is well connected to international air hubs through its local airport (<https://khe.aero>). More details are available at the Conference Venue page at the ICTERI 2021 web site: <http://icteri.org/icteri-2021>.