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## ENCORE Newsletter April 2023

***ENCORE is an innovative project that brings together cutting-edge data-driven techniques, and a qualitative pedagogical approach to foster the use of OERs and existing taxonomy of skills- ESCO to produce resources for teachers***

Dear colleague,

Welcome to our newsletter, directed to all colleagues interested in the ENCORE project. Our purpose is to let you know what has been happening in the different areas of work and to inform you on what project activities are coming up so that you can share them with colleagues and other interested contacts.

**#OER\_ENCORE**

**ENCORE website**

**WHAT HAS BEEN HAPPENING IN THE PROJECT?**

## Validation of design choices and priorities for the ENCORE enabler for Educators

During our recent consortium meeting, FBK organised a co-design workshop in collaboration with all present partners. The objective of the workshop was to gather input for the design of the digital ENCORE components for educators, which are intended to help them navigate the ENCORE's Open Educational Resources (OER) database and select relevant OER based on targeted Global Digital Education (GDE) skills.

As part of the workshop, partners were asked to try out a prototype of the interface for the ENCORE 4 Educators (E4E) enabler. This facilitated the validation of some design choices and priorities and sparked discussions on the integration of the ENCORE Database in targeted learning scenarios.

All the participants provided valuable inputs, which are currently being analyzed and incorporated into a revised version of the interactive prototype. This prototype will serve as the basis for the development of the ENCORE enabler for Educators.

The output of the co-design workshop was crucial in ensuring that the ENCORE components are tailored to meet the needs of educators and will eventually result in more effective use of OER in teaching and learning.



## Two new articles are OUT!

The ENCORE team has been very productive with scientific publications. The first is a journal paper is on the PLOS ONE journal, titled "*Teaching and Recognition of Skills in the Digital Era through OER-based Personalized and Gamified Learning*".

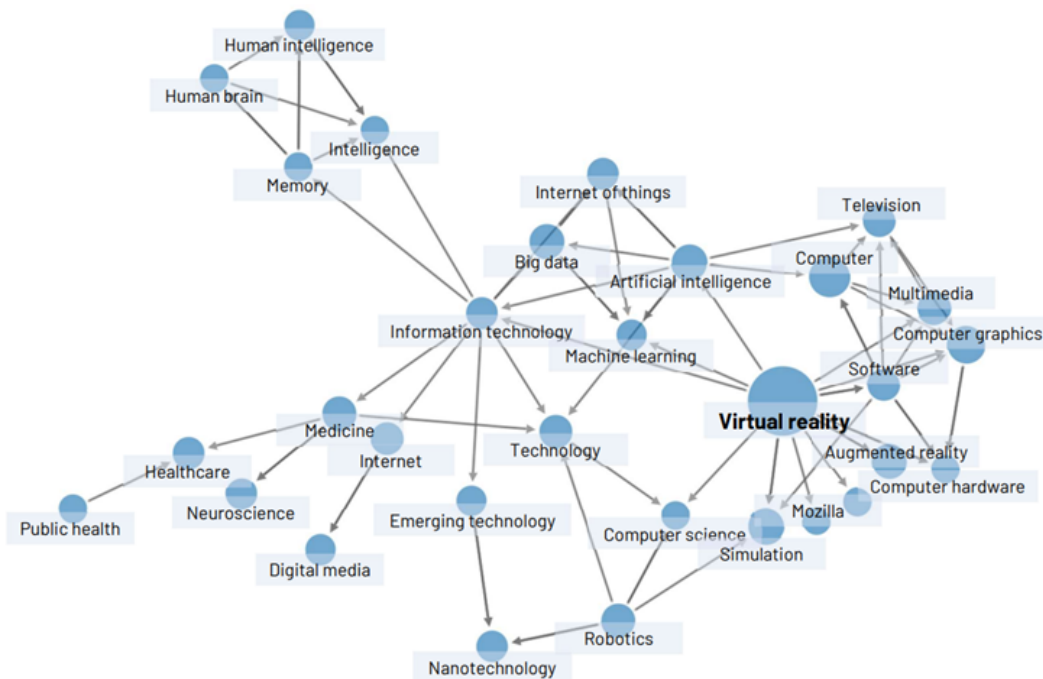
The other is a conference paper, titled '*Designing Learnign Paths with Open Education Resourses: An Investigation in Model-Driven Engineering*'. The latest will be presented by Andrea Vázquez-Ingelmo, at the CISTI conference <https://cisti.eu/index.php/en/> in June (20-23).

They both will be soon available on our [website](#)



## Graphs of relations between concepts in OERs

The objective is to be able to generate a graph representing relations between concepts extracted from an OER (or a set of OERs). Starting from a dataset of 118,808 OERs, UNIPi has utilised Natural Language Processing and Information Extraction techniques to extract all the concepts mentioned in their title and/or description. Given a subset of OERs (e.g., all the OERs containing the skill *Virtual reality*), they are determined if there exists a relation between all the identified concepts of the selected educational resources through an automatic analysis of their Wikipedia pages. The concepts extracted from the OERs and the relations identified among them are the input data for the generation of graphs, where the nodes are the concepts and the edges represent the relations between them. The picture demonstrates an example of these graphs, showing the concepts of the OERs which cover the skill *Virtual reality*.



## UPCOMING EVENTS

## ENCORE podcast series has been kicked off

Filippo Chiarello (ENCORE Coordinator) ; Alessandra Antonaci (ENCORE Dissemination leader) and Juliana Raffaghelli (ENCORE researcher) have kicked off the *AI\_ducation - Learning in the age of Artificial Intelligence* podcast series. Among others, the topics that will be addressed are:

- Students' Voices
- Real World Applications
- A social debate about AI
- The AI literate: what we need to do know to do it better (with robots as colleagues)
- The sceptical educator: in dialogue with AI
- Imagining AI futures
- Behind the AI scenes

We will have great personality experts joining us. In May 2023 there will be realised another episode so stay tuned following us on [www.project-encore.eu](http://www.project-encore.eu) **#OER\_ENCORE**



# AI\_ducation

learning in the age  
of artificial intelligence



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## CONTACTS

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