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Open Education Week Workshop 2022

Vineri, 11 martie 2022
13:00 - 17:30, online

a IX-a ediție
workshop internațional

**A strategic reset:
micro-credentials for LLL.
The EBSI4RO project approach**

Co-funded by the
Erasmus+ Programme
of the European Union



Comunități pentru dezvoltarea
educației deschise

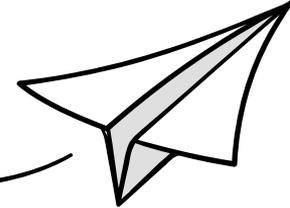
Transformative Communities
of Open Education

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Gabriela Grosseck
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Presentation Agenda



EBSI4RO Project

Brief Presentation

Micro-credentials Background

Conceptual
framework, research
context, and
justification

Insights

Data analysis &
Findings

Methodology

Research question,
research design,
objectives, data
collection



EBSI4RO: Connecting Romania through Blockchain

Central scope: to create an extendable and sustainable ecosystem to facilitate and accelerate the awareness, knowledge and adoption of the Blockchain technologies and European Blockchain Services Infrastructure (EBSI) by the Romanian citizens, businesses, institutions and administration; proposals for Blockchain policies in education.



April 2021 – March 2023

<https://ebsi4ro.ro>

<https://www.facebook.com/ebsi4ro>

<https://twitter.com/ebsi4ro>

Partners:

1. Executive Unit for Financing Higher Education, Research, Development and Innovation (UEFISCDI)

- Dr.Cosmin Gioranu
- Elena Stefania Nicolaescu

2. Politehnica University of Timisoara (UPT)

- Prof.dr.ing.Radu VasIU
- Dr.Diana Andone
- Prof.dr.ing.Carmen Holotescu
- Drd.Victor Holotescu
- S.I.dr.Andrei Ternauciuc
- Conf.dr.Gabriela Grosseck

Objectives of the project

01

Setup and operation of an EBSI node

Node operational from July 2021

The system will be integrated with the National Student Enrolment Registry (Registrul Matricol Unic RMU). An example for **micro-credentials** use-case: the certificates for the 55,000 teachers trained in the CRED national project will be issued on EBSI.

02

Credentialing System is implemented for verifiable digital qualification (official diplomas), but also for verifiable micro-credentials

03

5 Massive Open Online Courses (MOOCs) on Unicampus.ro

1. Blockchain technologies. Applications in Education
2. EU priorities and programs
3. EBSI open technical specifications. EBSI Use cases
4. How to deploy EBSI applications
5. Developing dApps

from March 2022 –

Issued **micro-credentials** on EBSI

04

Communication and Blockchain community strengthening in Romania,

with the aim to raise awareness of Blockchain / EBSI

Policies proposals for verifiable diplomas and **micro-credentials**

EBSI Early Adopters: Multi-University Pilot

2 European universities alliances, +18 universities from +15 countries

EBSI4R0 participates in the EA Programme – July 2021 – May 2022



<https://ec.europa.eu/digital-building-blocks/wikis/display/EBSI/Early+Adopters+Programme>

EBSI4RO approach for micro-credentials



Research MC

EU Strategy for MC

Projects, policies

Bibliometric research - the first findings

Design MOOCs for Blockchain/EBSI on Unicampus

Aligned with INATBA and CHAISE frameworks for Blockchain programs

Aligned with MC quality standards – MICROBOL and EU frameworks

Issue MC on EBSI

Participation in EBSI Early Adopters Programme

Design and implement the system for issuing MC on EBSI

Issue MC for EBSI4RO MOOCs, CRED project, other use-cases

Policy Proposals for MC

Survey on MC acceptance by universities and companies

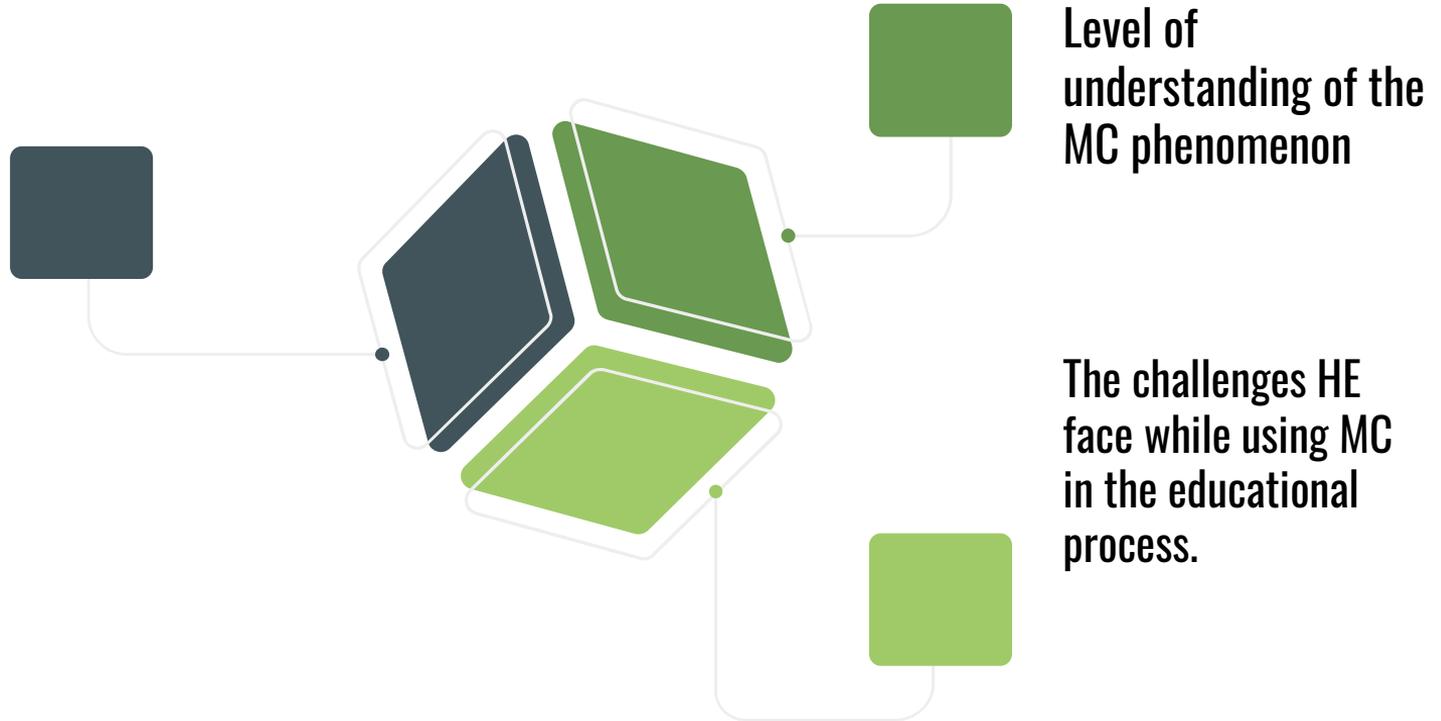
Round tables and interviews with Think Tank and other projects

Policy recommendations

Methodology for MC bibliometric study: Research question

How can we use micro-credentials in HE?

MC in HE



Methodology: Looking for data

(micro-credential* OR microcredential*) OR (micro-master* OR micromaster*) OR (nano-degree* OR nanodegree*) OR (micro-degree* OR microdegree*) OR (micro-certification* OR microcertification*) OR (mini-degree* OR minidegree*)

Web of Science
(n=171)

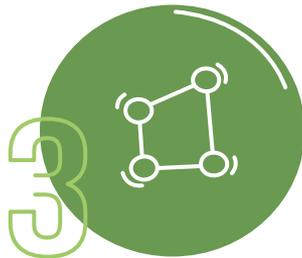


Scopus
(n=292)

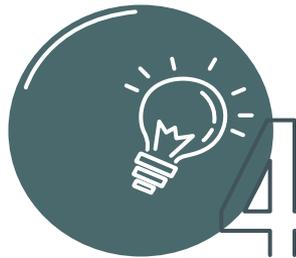


NUS
(n=3828)

Ebsco, Proquest
Taylor&Francis, Wiley,
Elsevier (Science Direct),
SAGE etc.



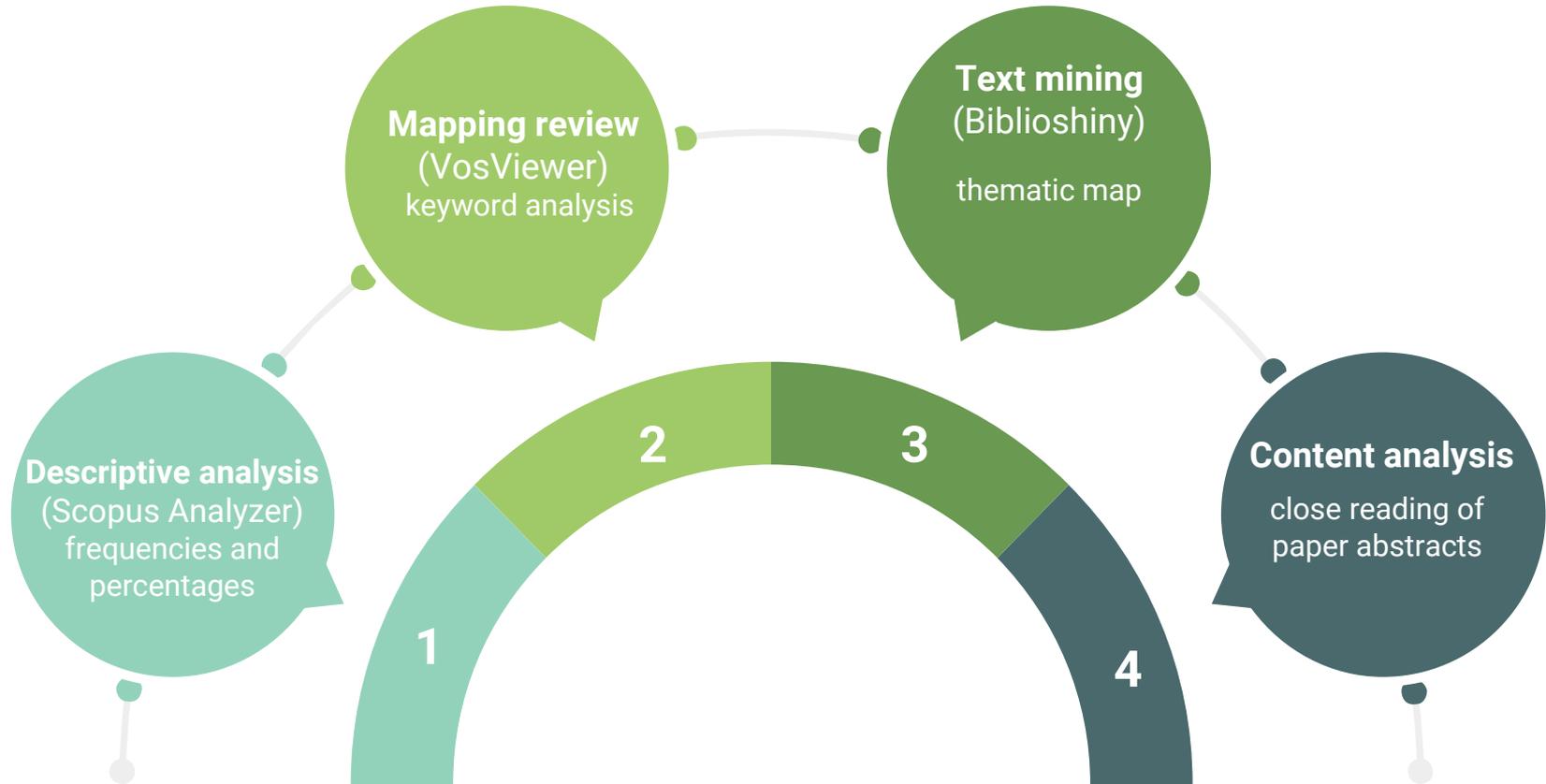
ERIC
(n=319)



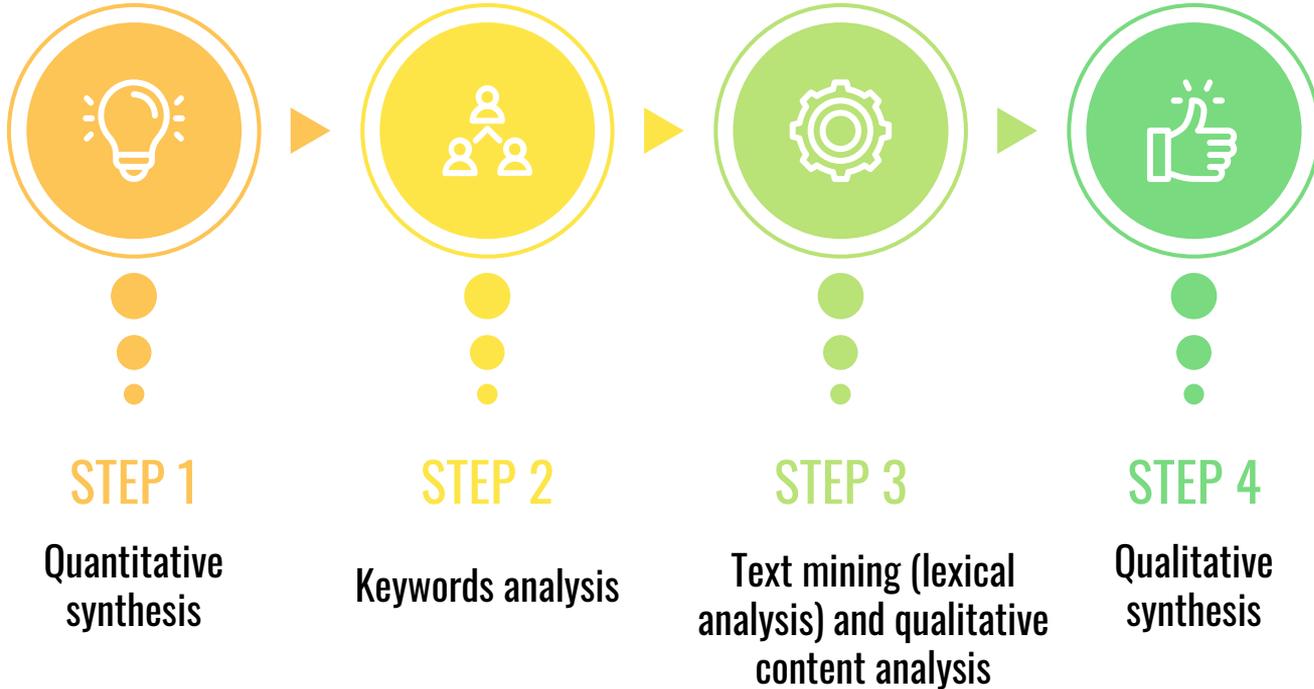
Google Scholar (n=989)

Methodology: Mixed methods review

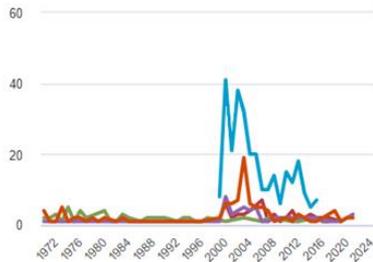
Grant et al.(2009) and Gough, Oliver & Thomas (2012)



Methodology: Research Steps



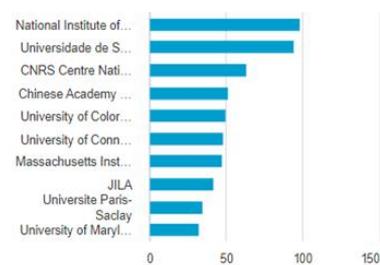
Documents per year by source



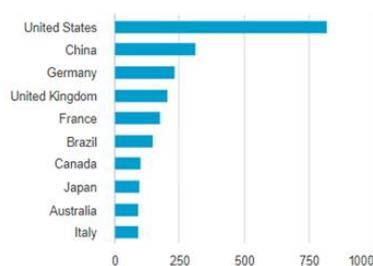
Documents by author



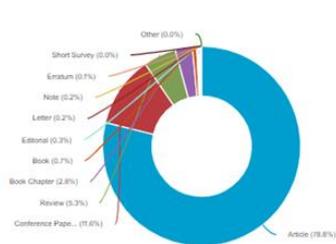
Documents by affiliation



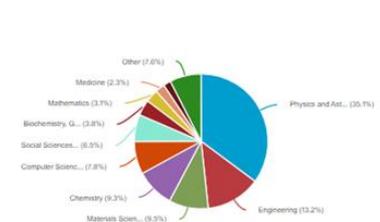
Documents by country/territory



Documents by type



Documents by subject area



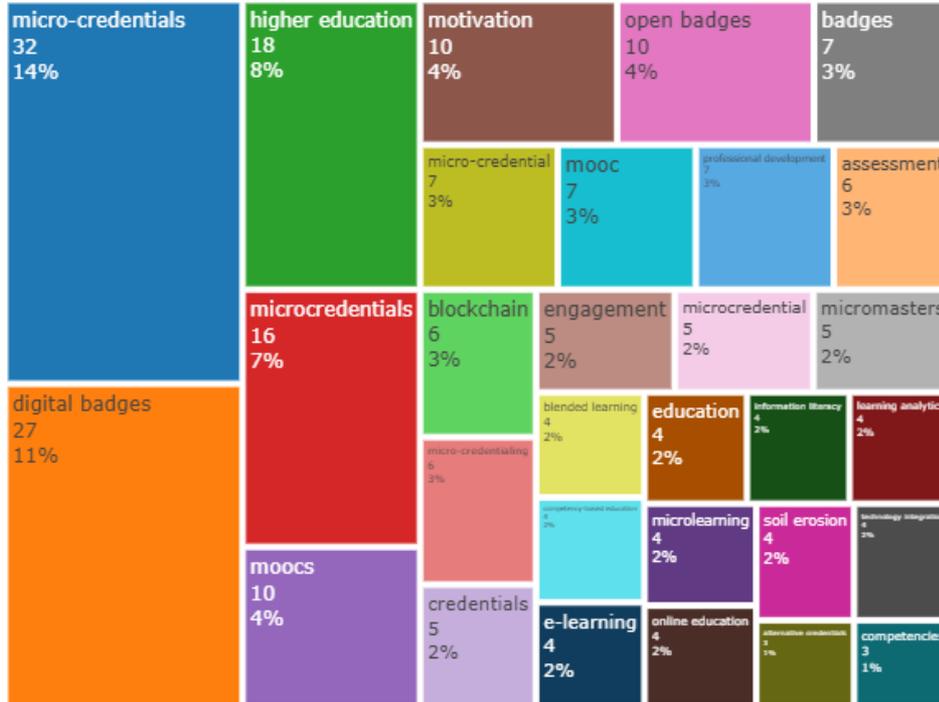
STEP 1

Quantitative
synthesis
(SCOPUS
Analyzer)

STEP 2

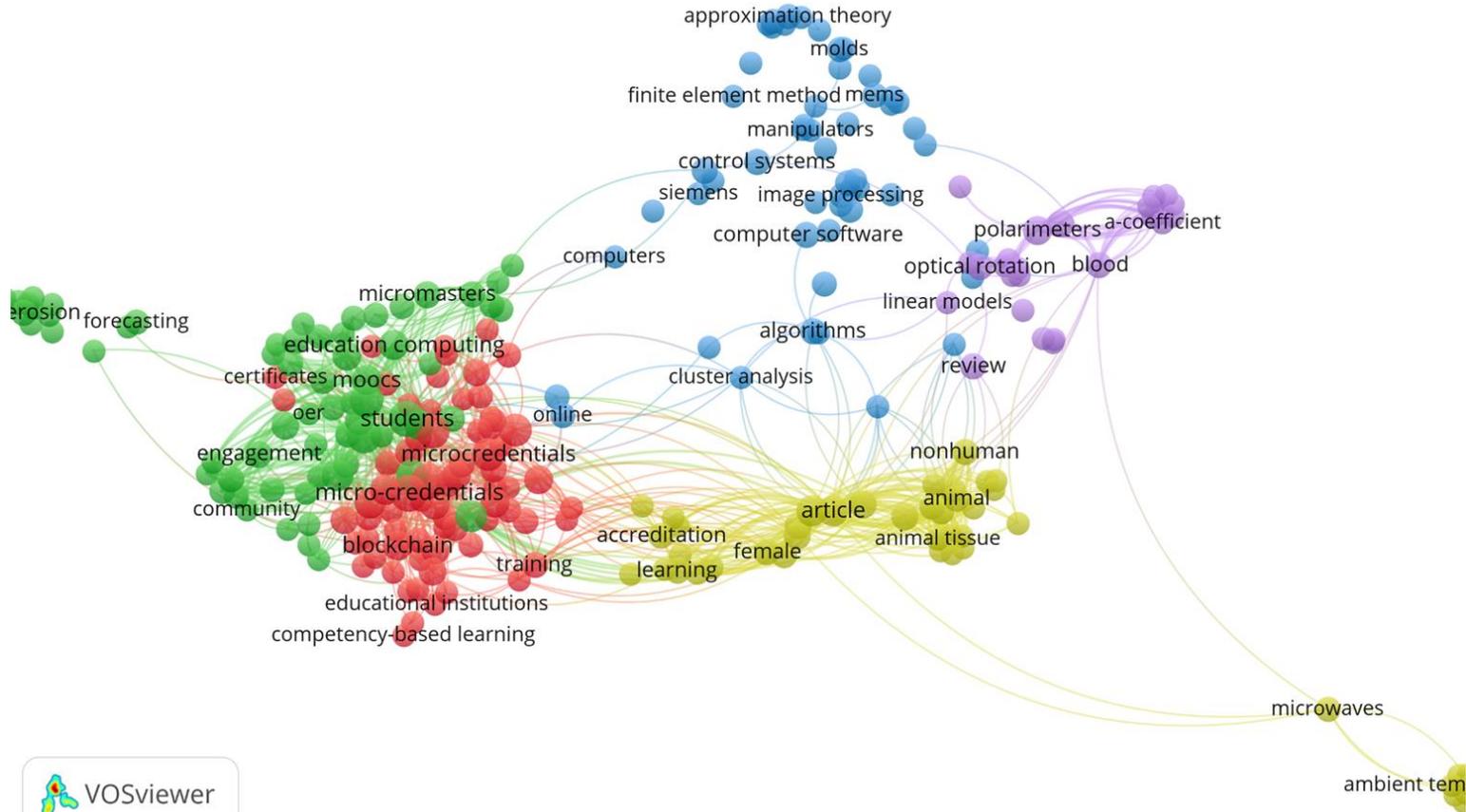
Keywords analysis

Tree



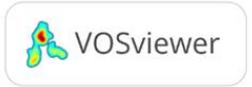
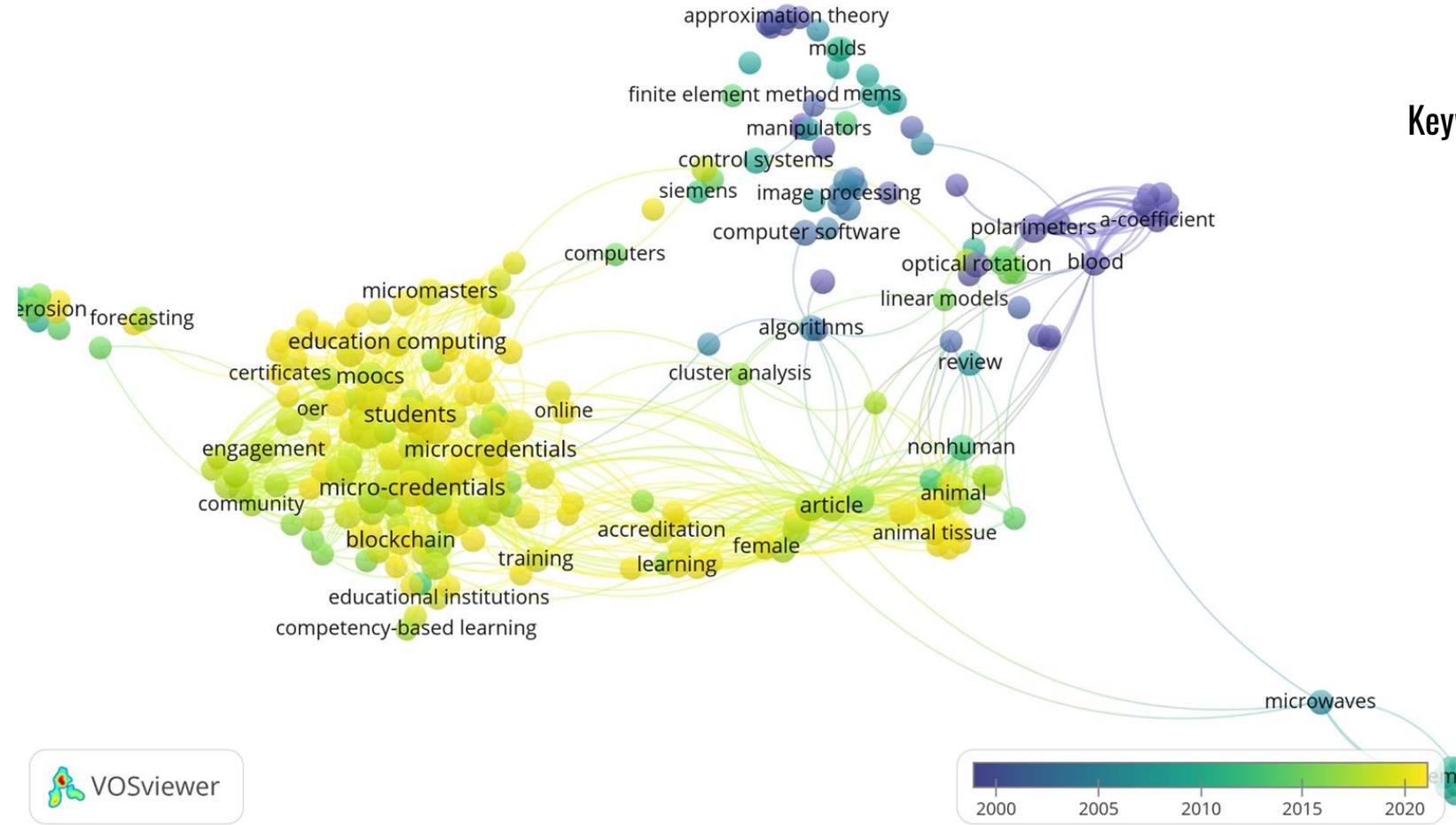
STEP 2

Keywords analysis



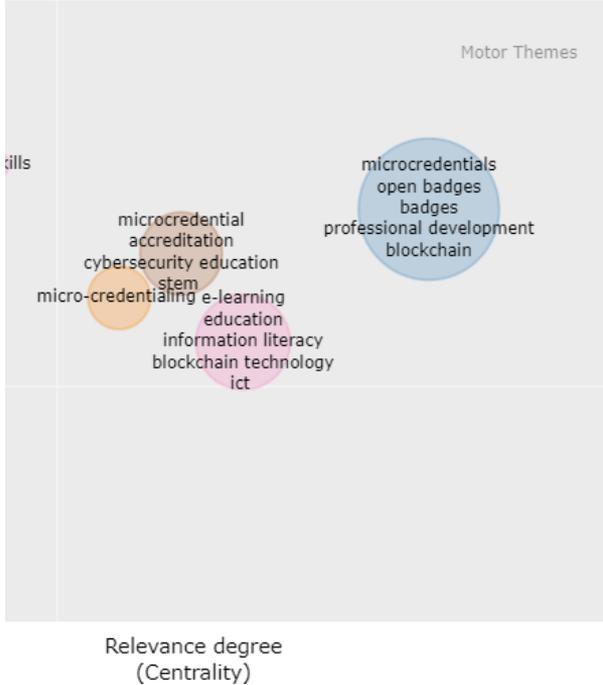
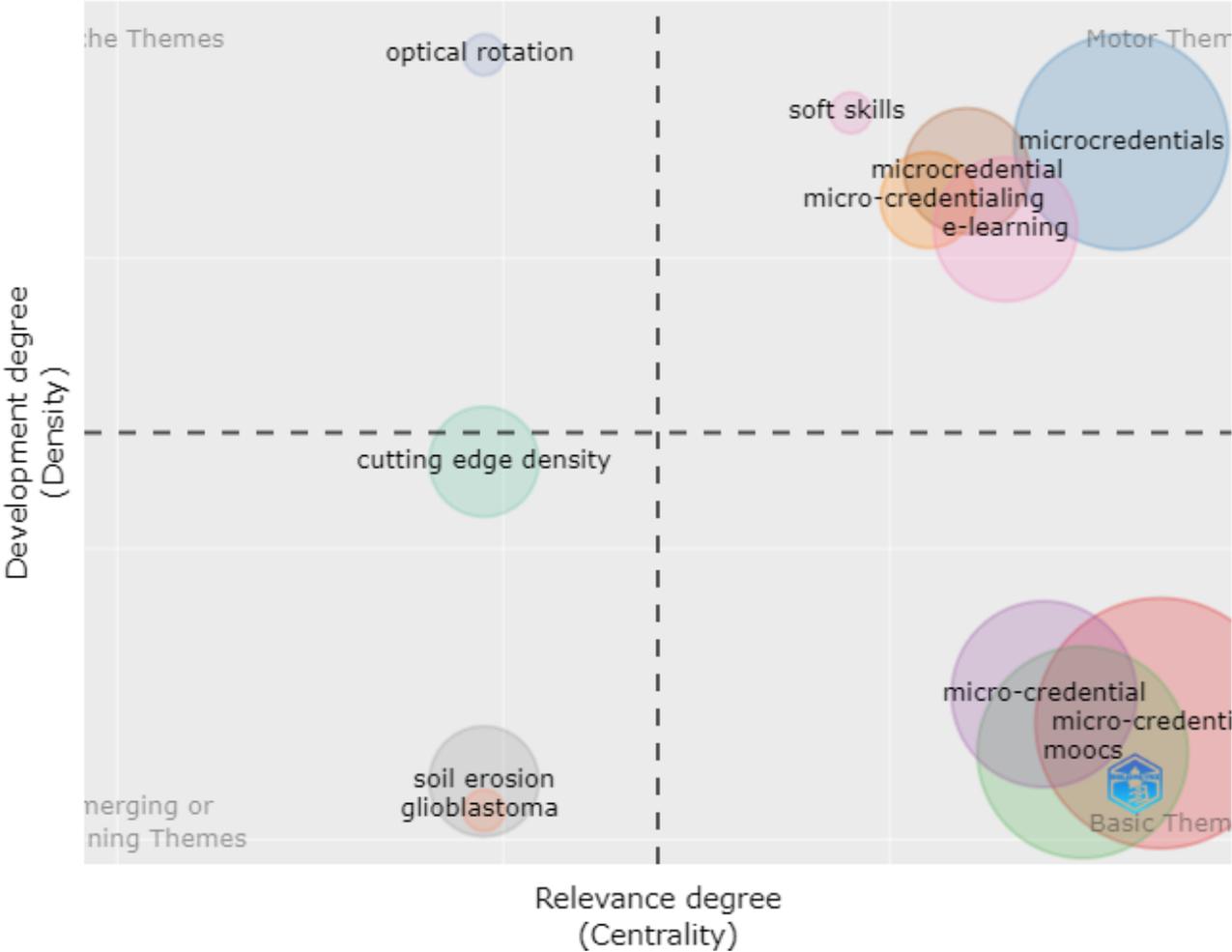
STEP 2

Keywords analysis





Thematic map



Thank you for your attention!

Carmen Holotescu, Gabriela Grosseck and Diana Andone

Kind invitation:

- Participate in the MOOCs and pilots for diplomas and micro-credentials of “EBSI4RO: Connecting Romania through Blockchain” – <https://ebsi4ro.ro>
- Follow EBSI4RO on Facebook - <https://www.facebook.com/ebsi4ro> and Twitter - <https://twitter.com/ebsi4ro>