

AI4DH

CENTRE OF EXCELLENCE IN AI
FOR DIGITAL HUMANITIES

ADVANCING INTERDISCIPLINARY RESEARCH: The European Centre of Excellence in Artificial Intelligence for Digital Humanities (CoE AI4DH)

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Unprecedented amounts of data are now available to researchers in the humanities and social sciences.

The application of artificial intelligence (AI) is essential for processing datasets, uncovering previously hidden patterns, and gaining insights at unprecedented speeds.

The interdisciplinary collaboration between AI and the digital humanities remains a challenge.

- 1) The expectations of the social sciences and humanities often do not match the possibilities of AI.
- 2) Communication barriers arise because experts from these fields often do not have a common vocabulary.
- 3) The organisational structures required for sustainable collaboration are weak.

To overcome these obstacles, we have established the European Centre of Excellence in Artificial Intelligence for Digital Humanities (CoE AI4DH).

OUR MISSION IS TO
EMPOWER DIGITAL
HUMANITIES AND
SOCIAL SCIENCE
RESEARCHERS TO APPLY
STATE OF THE ART AI
TECHNOLOGIES, DRIVING
NEW DISCOVERIES AND
ADVANCING KNOWLEDGE
IN THEIR FIELDS.

For researchers in the humanities and social sciences, the CoE provides dedicated support for applying AI methods in both research and teaching.

Scholars are encouraged to contact the Centre with specific questions or project needs. They will receive expert guidance on what is feasible, what existing tools and resources may be suited to their goals, and which challenges represent research gaps that could be addressed in collaboration with computer science experts at the CoE AI4DH.

Specifically, we offer a wide range of resources and applications, including:



COMPUTATIONAL INFRASTRUCTURE

Access to advanced infrastructure for AI models in digital humanities.



EDUCATION & TRAINING

Workshops and resources to enhance AI knowledge and skills.



RESEARCH & RESOURCES

Tools and datasets to support your projects.



PROJECT PROPOSAL & SUPPORT

Assistance in developing AI-driven research proposals.



AI, MACHINE LEARNING & DATA SCIENCE SUPPORT

Expert guidance on applying AI techniques.



METHODOLOGY SUPPORT

Help in designing and implementing AI-driven research methodologies.

RESEARCH EXAMPLE



Large Language Models for Motif Detection: the Cinderella Case Study

AIM:

To develop a methodology for automatic motif detection in text, based on LLMs (77 Cinderella variants in different languages).

RESULTS:

LLMs can effectively detect motifs in tales which reduces the need for time consuming manual annotation.

LLMs also capture variations and deviations from established motif patterns.

This study brings new possibilities for large-scale narrative analyses - foundation for more systematic and computationally grounded frameworks (Arčon et al., 2025).

CONSIDER COLLABORATING WITH US THROUGH THE FOLLOWING OPTIONS:

- Training and support for humanities scholars
- Joint project development and proposal
- Access to advanced AI computational infrastructure
- Guest research stay

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Digital Humanities (AI4DH)**

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IN ARTIFICIAL INTELLIGENCE
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