Project title:

DEVELOPMENT OF SOFTWARE TOOLS AND MULTIMEDIA TECHNOLOGIES FOR DIGITAL PRESENTATION, PRESERVATION AND MANAGEMENT OF CULTURAL HERITAGE

Beginning of the project: 1 January 2023

Project duration: 3 years

Funding: Joint Research Projects Serbian Academy of Sciences and Arts and Bulgarian Academy of Sciences for Period 2023-2025

PARTNER INSTITUTIONS:

From Bulgaria:

- Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria

From Serbia:

- Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia,

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SERBIAN RESEARCH GROUP:

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PROJECT DESCRIPTION:

Nowadays, the use of information technology rapidly changes the development of software tools and multimedia technologies for digital presentation, preservation and management of cultural and historical heritage. Technology allows new possibilities for the development of innovative methods, scenarios and tools for a deeper understanding of cultural and historical heritage and using them in intelligent content curation. Through the close bilateral cooperation of specialists in the field of digital cultural ecosystems, new solutions will be sought, and new applications will be created in this field. The project will contribute to identifying and exchanging results in the research area of experimenting with mobile and Web services to interactively present cultural and scientific heritage for research and public communities.

The planned research and development focus on interactive multimedia items, digital library services, virtual environments, content management, mobile and Web technologies, serious educational games and educational applications. The results of the research work will be applied in the development of multimedia systems to present cultural heritage to a broad audience and bring it closer to the users, especially young people. Further, the research results will be presented to professionals from cultural institutions. Their feedback will be used to validate the proposed solutions for the presentation of cultural heritage.

The main topics of joint research and development of IMI-BAS and MI-SASA will include, among others, the development of innovative applications for web and mobile platforms, location-based services and optimization of multimedia delivery.