

Table of Contents

Invited Papers

1. *Vladimir Alexiev* – Museum Linked Open Data: Ontologies, Datasets, Projects.....19
2. *Nektarios Mousmoutzis, Marios Christoulakis, Stavros Christodoulakis, Desislava Paneva-Marinova* – Renovating the Cultural Heritage of Traditional Shadow Theatre with eShadow. Design, Implementation, Evaluation and Use in Formal and Informal Learning.....51
3. *Zsolt László Márkus, Gábor Kaposi, Miklós Veres, Zsolt Weisz, György Szántó, Tibor Szkaliczki, Desislava Paneva-Marinova, Radoslav Pavlov, Detelin Luchev, Maxim Goynov, Lilia Pavlova* – Interactive Game Development to Assist Cultural Heritage.....71
4. *Malvina Rousseva* – Challenges in the Design and the Development of the Educational Serious Game “The Thracians”.....83
5. *Gita Senka* – Business Partnership Models and Creative Strategies for Co-operation between Technology Companies and Cultural Organizations.....87
6. *Evita Pilege, Sandra Plota* – Challenges and Opportunities for Creative Industries in Age of Data Economics.....93
7. *Peretz Shoal* – A Method for Modeling a Schema for Graph Databases.....99
8. *Elena Pavlovska* – “Grey Literature” in Electronic Archives.....105

Full Papers

9. *Orlin Kouzov* – Art, Social and Culture Education Supported by Artificial Intelligence Tools.....111
10. *Magdalena Stoyanova, Diego C. Stoyanov, Lilia Pavlova* – Non Algebraic Techniques for Digital Processing of Historic Painting Research Documentation.....121
11. *Galya Georgieva-Tsaneva, Nikolay Noev, Galina Bogdanova* – Serious Educational Games and the Study of the Military Historical Heritage.....133

Short Papers

12. *Galya N. Georgieva-Tsaneva, Negoslav Subev* – Technologies, Standards, and Approaches to Ensure Web Accessibility for Visually Impaired People.....143
13. *Nikolay Noev, Iliya Valev, Stefka Kancheva, Vladimir Sapundjiev* – A Model of Content Structure for a Serious Educational Game Related to the Military and Historical Heritage Presented through the “Mission Opalchenets”.....151
14. *Elena Zaharieva-Stoyanova, Damyan Beshevliev* – Digital Representation of Crochet Symbols Sets.....159
15. *Radu Claudiu Fierascu, Irina Fierascu, Valentin Raditoiu, Cristian-Andi Nicolae, Mihnea Dulea, Dragos Alexandru Mirea* – Transdisciplinary Studies for Valorisation of National Cultural Heritage Using Nuclear Techniques and Other Associated Methods.....165
16. *Irina Fierascu, Radu Claudiu Fierascu, Iulia Florentina Dana-Negula, Ioana Popitiu, Gabriel Rustoiu, Constantin Ioan Inel, Alina Ortan* – Nanotechnology – Materials and Techniques for Safeguarding Cultural Heritage.....171
17. *Stefka Kovacheva, Ludmila Dimitrova* – Knowledge-Based E-environment for Bulgarian Cultural Heritage with Focus on Learning.....177

Project Papers

18. *Yanislav Zhelev* – Improvement the Competences of the Specialists Engaged with the Cultural and Scientific Heritage Digitization in the Information Security and Risk Management Systems: ISTRA Approach.....189
19. *Maria Dimova, Stanislava Slavova-Petkova, Detelin Luchev* – Models of Digital Book Trailers and Applications of Digital Storytelling Approach for Educational Purposes.....197
20. *Radovesta Stewart* – *Aquae Calidae MusLib* - to Connect 20 Centuries of History.....207
21. *Michela Tramonti, Alden Dochshanov* – Students’ Engagement through Computational Thinking and Robotics.....213
22. *Vladimir Georgiev, Alexandra Nikolova, Emanuela Mitreva* – Using Unity and Shield UI for Displaying 3D Medical Education Objects in the Web Browser.....221

23. *Radovesta Stewart, Yanislav Zhelev, Maria Monova-Zheleva* – ORCHIS - Technology in Help of Botanists and Foresters on Both Sides of the Border.....225

Workshops and Demos

24. *Peter Stanchev, Milena Damyanova, Yanita Zherkova, Zlatina Karova, Guenoveva Jecheva, Radoslav Pavlov, George Simeonov* – The Ninth National Information Day: Open Science, Open Data, Open Access.....235
25. *Desislava Paneva-Marinova, Radoslav Pavlov* – Mini-symposium on Future Trends in Serious Games for Cultural Heritage.....241
26. *Maria Todorova, Teodor Martev* – Museum Space – Model-driven Web-based Platform for Digitalisation and Preservation of Cultural Heritage.....245

