

International Conference: IT in Cultural Heritage (IT-CH'2023)

October 24–26, 2023, Lublin University of Technology, Lublin, Poland

Conference Programme

1st day, October 24, 2023

Registration: 9:30-10:00, Lublin University of Technology, Faculty of Electrical Engineering and Computer Science, main building, room: E212

Start: 10:00, room: E212

10:00-10:30	Day 1. Opening ceremony:
	Prof. Wojciech Franus - viceRector of the Lublin University of Technology,
	Prof. Paweł Węgierek - Dean of the Faculty of Electrical Engineering and Computer Science of the Lublin University of Technology,
	Prof. Tomasz Zientarski – Head of the Department of Computer Science,
	Prof. Jerzy Montusiewicz – Head of the 3DLab, Chair of the Scientific Committee
	Dr. Elżbieta Miłosz – Chair of the Organising Committee
	Session 1. Moderator: Prof. Tomasz Zientarski
10:30=10:45	Digital Silk Road in Central Asia in case of Uzbekistan; Mullaev Aziz Shomakhmatovich; Academy of
	Science Uzbekistan, Center for Contemporary History of Uzbekistan, Uzbekistan
10:45-11:00	The Silkroad3D project as a scientific and practical testing ground in the protection of cultural heritage;
	Miłosz Elżbieta; Lublin University of Technology, Department of Computer Science
11:00:11:15	The role of information technologies in the development of the cultural heritage of Uzbekistan;
	Hashimova Mukaddas Muradkhanovna; Samarkand State University, Uzbekistan
11:15=11:30	Digitalisation of the cultural heritage of the Polish community in the US – the project; Miłosz Marek,
	Montusiewicz Jerzy, Miłosz Elżbieta, Kęsik Jacek, Woś Ryszard (*), Urban Katarzyna (**); Lublin University
	of Technology, Department of Computer Science; (*) ECCC Foundation, Lublin. Poland; (**) John Paul II
	Catholic University of Lublin
11:30-11:45	Typical course of scanning and generating a 3D model - Faro Focus/Artec Eva scanner; Żyła Kamil, Kęsik
	Jacek; Lublin University of Technology, Department of Computer Science
11:45-12:00	Promotion of cultural diversity using VR - a case study; Skulimowski Stanisław, Barszcz Marcin,
	Montusiewicz Jerzy; Lublin University of Technology, Department of Computer Science
12:00-12:30	Coffee break
	Session 2. Moderator: Prof. Marek Miłosz
12:30-12:45	The role of Uzbek and Polish astronomers in the development of world astronomy and reflection of
	their activities in the museums of Samarkand; Ibragimov Shukhrat; Registan Ensemble, Samarkand(*)
	Uzbekistan



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12:45-13:00	Integration of 3D laser scanning and photogrammetry to generate 3D models on the example of
	wooden religious buildings from Poland; Badurowicz Marcin, Kęsik Jacek, Montusiewicz Jerzy,
	Skulimowski Stanisław, Miłosz Marek; Lublin University of Technology, Department of Computer Science
13:00-13:15	From the history of medieval educational institutions of Samarkand (madrasahs and maktabs). Issues
	of 3D digitisation of these objects; Urunkhodjaev Ulugbek; Registan Ensemble, Samarkand, Uzbekistan
13:15-13:30	Machine translation of literary texts into the Tajik language on the example of the story "A Tramper
	from Samarkand" by Ksawery Pruszynski; Warakomski Jerzy, (*) Kayumow Rahim, Montusiewicz Jerzy;
	Lublin University of Technology, Department of Computer Science; (*) Samarkand State of University
13:30-13:45	Providing a digital twin of wooden sacral monuments of the Carpathians on the example of the Saint
	Nicholas Church in Creaca (Romania); Kęsik Jacek, Montusiewicz Jerzy, Miłosz Marek, Żyła Kamil,
	Szymczyk Tomasz; Lublin University of Technology, Department of Computer Science
13:45-14:00	3D technologies for education: time to train the teaching staff of the future; Eshchanov Bakhodir,
	Arzikulov Zayniddin, (*) Khudayberganov Ravshonbek; Chirchik State Pedagogical University, Uzbekistan;
	(*) Center for increasing the social activity of students and puplis under the ministry of higher education,
	science and innovation of the Republic of Uzbekistan
14:00-15:00	Lunch
	Session 3. Moderator: Dr. Jacek Kęsik
15:00-15:15	Monetary reform of Mirzo Ulugbek and his role in trade on the Great Silk Road; Mukhamedova Dilbar
15.00-15.15	Gafurjanovna; National University of Uzbekistan named after Mirzo Ulugbek, Uzbekistan
15:15-15:30	Method of developing the imagination of virtual existence in informatics teachers through 3D
	technologies; Ismadiyarov Abdurakhmon Karshibaevich, Dilfuza Makhmudova Melievna, Gayipova
	Gulshod Normatovna; Chirchik State Pedagogical University, Uzbekistan
15:30-15:45	Using photogrammetry to generate 3D models - a case study of a church bell and pieta (Chicago, USA);
	Kęsik Jacek, Montusiewicz Jerzy, Miłosz Marek, (*) Woś Ryszard; Lublin University of Technology,
	Department of Computer Science; (*) ECCC Foundation, Lublin. Poland
15:45-16:00	Printing traditional fabrics from Bukhara in Uzbekistan using copies of stamps - workshops for children;
	Montusiewicz Jerzy, Kęsik Jacek, Sałamacha Anna; Lublin University of Technology, Department of
	Computer Science
16:00-16:15	Evaluation of the quality of a digital 3D model using photogrammetry - a case study of objects from
	Cyprus; Montusiewicz Jerzy, Sałamacha Anna; Lublin University of Technology, Department of Computer
	Science
16:15-16:45	Coffee break
	Session 4. Moderator: Prof. Jorzy Montuciowicz
16:45-17:00	Session 4. Moderator: Prof. Jerzy Montusiewicz Digitization as a method of eternal saving cultural heritage objects - Church of St. Adalbert in Chicago
10.42-17.00	case study; Miłosz Marek, Kęsik Jacek, Montusiewicz Jerzy, Miłosz Elżbieta, (*) Urban Katarzyna; Lublin
	University of Technology, Department of Computer Science; (*) John Paul II Catholic University of Lublin
17:00-17:15	Architectural monuments of Samarkand during the Temurids period and the prospect of 3D digitization
17.00 17.15	of these objects; Safarov Asliddin; Samarkand International University of Tourism and Cultural Heritage
	"Silk Road", Uzbekistan
17:15-17:30	Technical aspects of 3D printing of copies of objects of material cultural heritage; Barszcz Marcin,
	Montusiewicz Jerzy, Korga Sylwester; Lublin University of Technology, Department of Computer Science
17:30-17:45	Spatial-Temporal Graph Convolutional Network for Zeibekiko dance sequences classification using
	motion capture data; Powroźnik Pawel, Skublewska-Paszkowska Maria, (*) Lemonari Marilena, Aristidou
	Andreas, Lublin University of Technology, Department of Computer Science; (*) University of Cyprus,
	Cyprus, Department of Computer Science













17:45-18:00	Possibilities of using digital models from 3D scanning to create virtual museums; Barszcz Marcin, Dziedzic Krzysztof, Skublewska-Paszkowska Maria, Powroźnik Paweł; Lublin University of Technology, Department of Computer Science
18:30	Chata
	2 nd day, October 25, 2023
	Start: 9:00, hall: E403b
	Session 5. Moderator Prof. Dilbar Mukhamedova
9:00-9:15	The importance of the infrastructures formed in Khorezm oasis in the Great silk Road and the specific features of this system; Abdullaev Utkir Ismailovich, Matkurbonov Omon Odilbekovich; Urgench State University, Uzbekistan
9:15-9:30	The history of the press in Khorezm and its role in the coverage of social and political life: history and analysis (1920-1945); Atamuratova Dilafruz Rashidovna; Urgench State University, Uzbekistan
9:30-9:45	Research on the history of the early medieval period of Khorazm from the 20-30's of the 20th century to the crossroads of the 21st century; Matkurbonov Omon Odilbekovich; Urgench State University, Uzbekistan
9:45-10:00	The role of Ayazqala and Qalajiqqala in the defence system of ancient fortresses of Khorezm ; Satimov Baxodir, Matrasulov Alisher Ozodovich; Urgench State University, Uzbekistan
10:00-10:15	The role of Akchakhankala in the history of ancient Khorezm ; Abdullaev Utkir Ismailovich, Matyakubov Toyirjon Sultanbaevich; Urgench State University, Uzbekistan
10:15-10:30	Architectural epigraphy of the Registan ensemble; Mansurova Dilafruz; Registan Ensemble, Samarkand, Uzbekistan
10:30-10:45	The role of the Silk Road in the international relations of Central Asia ; Atakhodjaev Azimkhuja, Mullaev Aziz Shomakhmatovich; Academy of Sciences of the Republic of Uzbekistan, Uzbekistan
10:45-11:00	The role of language and communication in the informatization of cultural heritage ; Khudayberganov Ravshonbek; Center for increasing the social activity of students and puplis under the ministry of higher education, science and innovation of the Republic of Uzbekistan
11:00-11:30	Coffee break
	Session 6. Moderator Dr. Aziz Mullaev
11:30-11:45	Mesh size reduction of digital 3D models of museum exhibits for online dissemination; Dziedzic Krzysztof, Montusiewicz Jerzy, Miłosz Marek; Lublin University of Technology, Department of Computer Science
11:45-12:00	The use of 3D printing to generate copies of cultural heritage models dedicated to the blind; Korga Sylwester, Montusiewicz Jerzy, Barszcz Marcin; Lublin University of Technology, Department of Computer Science
12:00-12:15	The concept of interactive 3D models of architectural objects for the blind ; Korga Sylwester, Montusiewicz Jerzy, Zientarski Tomasz, Barszcz Marcin, Dziedzic Krzysztof; Lublin University of Technology, Department of Computer Science
12:15-12:45	Visiting the Lab3D laboratory
13:00-14:00	Lunch













	3 rd day, October 26, 2023
	Start: 9:00, on-line session, CliZT, room 403d
	Session 7. Moderator Prof. Dilbar Mukhamedova; Dr. Elżbieta Miłosz
9:00-	1. Features of the socio-economic development of the Khorezm Khanate; Abdullaev Ilyas Sultanovich;
10 minutes	Urgench State University, Uzbekistan
per paper	2. Economic and Mathematical Model of Container Block in the conditions of development of the Silk
	Road; Adilova Ziyoda, Ergasheva Z.; Tashkent State Transport University, Uzbekistan
	3. Implemented works on the study and promotion of the historical-cultural heritage in the example
	of Khorezm region; Atamuratova Robiya Alimboevna; Urgench State University, Uzbekistan
	4. Architecture of quarterly mosques in Samarkand and the prospect of 3D digitization of these abjects. Belte av Timur Khasen aviely, Desister Encomplex Comparison of Unbelsister
	objects; Boltaev Timur Khasanovich; Registan Ensemble, Samarkand, Uzbekistan
	5. Digitization of areographic historical monuments; Buzrukov Muhammadikhon; Samarkand State University, Uzbekistan
	6. Revival of pilgrim tourism on crossroad of the Great Silk Road (on the example of the Tashkent
	Oasis); Jumaeva Shoira; Chirchik State Pedagogical University, Uzbekistan
	7. The solitary life of wandering dervishes over monuments and Muslim shrines; Jumaniyozov Furqat
	Tojievich; Urgench State University, Uzbekistan
	8. Historical and cultural objects of the Sufi order as a place of healing in the example of shrines of
	Sultan Uwais, Pakhlavon Mahmud and Yusuf Khamadani; Jumaniyozova Mamlakat Tojievna; Urgench
	State University, Uzbekistan
	9. Problems, achievements and prospects for the development of 3D digitization of the cultural
	heritage of Samarkand; Kayumov Rakhim; Samarkand State University, Uzbekistan
	10. Medieval cities of Khorezm in the Great Silk Road (VIII-X centuries); Khasanov Mardon; Urgench
	State University, Uzbekistan
	11. Problems and prospects for 3 D Digitization of Aksaray (Amir Temur's residence in Shakhrisabz);
	Khushvakov Nabi Olimovich; Shakhrisabz State Museum-Reserve, Uzbekistan
	12. The way of life of the inhabitants of the Caltaminor culture; Madaminov Obidjon; Urgench State University, Uzbekistan
	13.Use of virtual technologies in the creation of electronic educational tools; Makhmudova Dilfuza
	Melievna, Gulshod Gayipova Normatovna; Chirchik State Pedagogical University, Uzbekistan
	14.Cultural heritage features for digital tourism development in Central Asia (in case of Uzbekistan);
	Mullaev Aziz Shomakhmatovich, (*) Nargiza Rasuljanovna Ismatullayeva; Academy Science
	Uzbekistan, Center for Contemporary History of Uzbekistan, Uzbekistan; (*) Tashkent State University
	of Oriental Studies, Uzbekistan
	15. From the history of the cultural heritage of Khorezm (on the example of "Ulli Khovli"); Nurullaeva
	Nodira Kadamovna, Kazakov Farkhod Sulaimonovich; Urgench State University, Uzbekistan
	16. Shrine of Sheikh Mukhtar Vali and silk market; Ruzmetova Oydinoy Erkinboy qizi; Urgench State
	University, Uzbekistan
	17. Protection of cultural heritage monuments in Khorezm region: issues and their solution;
	Samandarov Samandar; Urgench State University, Uzbekistan
	18. The role of irrigation facilities and systems in the formation of the material culture of Khorezm (XIX
	century); Sharipov Umar Otajonovich; Urgench State University, Uzbekistan
	19. Sharof Rashidov is a great public figure; Sulaymanova Shokhsanam; Chirchik State Pedagogical
	University, Uzbekistan
	20. The social structure of the early Sak tribes of the Aral Sea region ; Yusupov Axmadjon Shonazarovich, Ibragimov Ibragim; Urgench State University, Uzbekistan

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