



Department of Computer
Science, Lublin University
of Technology, Poland

National University
of Uzbekistan

Samarkand State
University, Uzbekistan

Chirchik State
Pedagogical Institute,
Uzbekistan

Urgench State
University, Uzbekistan



International Conference IT in Cultural Heritage of the Silk Road (IT-CHSR'2021)

Lublin University of Technology,
Lublin, Republic of Poland

13-15 December 2021

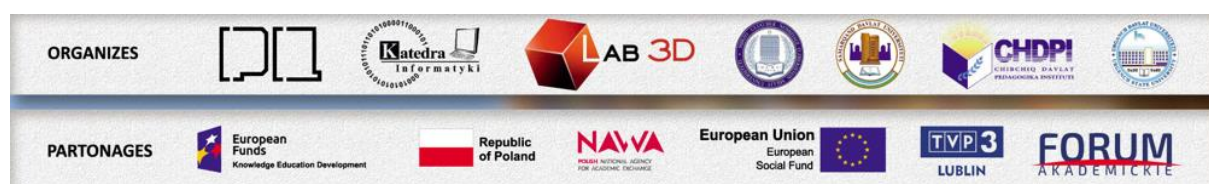
Conference programme

13 December, CIiZT building, room 302

9:00 – 9:30 Registration of participants

9:30 – 10:00 Opening ceremony

- **Prof. Wojciech Franus** – Deputy Rector of the Lublin University of Technology
- **Prof. Jerzy Montusiewicz** – Chair of the International Conference "IT in Cultural Heritage of the Silk Road (IT-CHSR'2021)"
- **Dr. Edyta Łukasik** – Deputy Dean of the Faculty of Electrical Engineering and Computer Science



10:00 – 11:00 Session 1, CIiZT building, room 302,

chairs: *Prof. Dilbar Mukhamedova, National University of Uzbekistan, Tashkent, Uzbekistan, Prof. Jerzy Montusiewicz, Lublin University of Technology, Poland*

- Digitization of photos from Central Asia from the beginning of the 20th century – two examples, *Marek Miłosz, Elżbieta Miłosz, Lublin University of Technology, Poland*
- Trumpeter from Samarkand – between the computer and literary translation of the stories by Ksawery Pruszyński into Uzbek, *Jerzy Warakowski, Lublin University of Technology, Poland, Rahim Kayumov, Samarkand State University, Uzbekistan, Jerzy Montusiewicz, Lublin University of Technology, Poland*
- Methodology of 3D Scanning of Intangible Cultural Heritage – The Example of Lazgi Dance, *Edyta Łukasik, Maria Skublewska-Paszkowska, Pawel Powroźnik, Jakub Smolka, Marek Miłosz, Lublin University of Technology, Poland, Dilbar Mukhamedova, National University of Uzbekistan, Tashkent, Uzbekistan, Elżbieta Miłosz, Lublin University of Technology, Poland*
- The ancient communications of Central Asia: the prehistory of the Great Silk Road, *Anatoly Sagdullaev, Abdullaev Utkir. Urgench State University, Uzbekistan*

**11:00 – 11:30 Vernissage of the photo and multimedia exhibition
"Uzbekiscanning: LUT's Scientific Expeditions 2021"**

11:30 – 12:00 Coffee break

12:00 – 13:00 Session 2, CIiZT building, room 302

chairs: *Prof. Utkir Abdullaev, Urgench State University, Uzbekistan, Prof. Marek Miłosz, Lublin University of Technology, Poland*

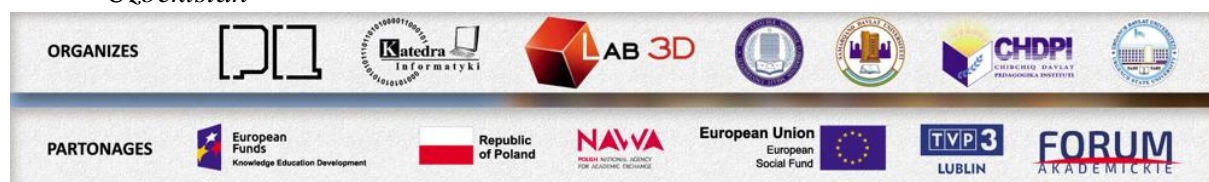
- Application of artificial intelligence methods in archeological artifacts, *S. Madrakhimov, Dilbar Mukhamedova, Doniyor Saidov, Q. Makharov, National University of Uzbekistan, Tashkent, Uzbekistan*
- Creation of virtual museums in Khiva; principles and approaches, *Mamlakat Jumaniyozova, Roviyaon Otamurodova Urgench State University, Uzbekistan*
- Reconstruction of the Khazarasp monument and its modeling using 3D technology - *Abdullaev Utkir Ismailovich, Masharipov Kudrat, Urgench State University, Uzbekistan*
- Generating 3D-objects using artificial neural networks, *Khudaybergenov Kabul, National University of Uzbekistan, Tashkent, Uzbekistan*

Lunch

14:30 – 17:00 Session 3, CIiZT building, room 302

chairs: *Prof. Bakhodir Eshchanov, Chirchik State Pedagogical Institute, Uzbekistan, Prof. Marek Miłosz, Lublin University of Technology, Poland,*

- Usage of 360 cameras and virtual reality in digital heritage archiving, *Marcin Badurowicz, Stanisław Skulimowski, Lublin University of Technology, Poland*
- 3D models as a factor in the effectiveness of educational technologies, *Bakhodir Eshchanov, Dilfuza Makhmudova, Chirchik State Pedagogical Institute, Uzbekistan*
- Problems and prospects for digitizing Arabic handwritten sources that persist in SamSU, *Djurakulova Dilfuza, Buzrukov Mukhammadikhon, Samarkand State University, Uzbekistan*



- Creation of a modern intelligent platform for the preservation of historical monuments, *Utkir Abdullaev, Roviyaon Otamurodova, Khabibulla Madatov Urgench State University, Uzbekistan*
- Application of SfM method to obtain 3D models from historical artefacts, *Krzysztof Dziedzic, Marcin Barszcz, Jerzy Montusiewicz, Lublin University of Technology, Poland*

18:00 – 20:00

Sightseeing of the old town by night

(Start point in the lobby of the Victoria Hotel)

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14 December, CIiZT building, room 403, 505, 302

9:00 – 10:00 CIiZT building, room 505

A visit to the LARiEI laboratories of the Department of Computer Science

*Dr. Maria Skublewska-Paszkowska, Dr. Pawel Powroźnik,
Dr. Małgorzata Plechawska-Wójcik*

10:00 – 11:00 CIiZT building, room 403

A visit to the Lab3D laboratories of the Department of Computer Science

Dr. Jacek Kęsik, Dr. Marcin Barszcz,

11:00 – 11:30 Coffee break

11:30 – 13:00 Session 4, CIiZT building, room 302

*chairs: Mr. Rahim Kayumov, Samarkand State University, Uzbekistan,
Dr. Jacek Kęsik, Lublin University of Technology, Poland*

- Mirzo Ulugbek's Madrasah and its popular teachers in Samarkand, *Khamakul Samarov, Registan Ensemble, Rahim Kayumov, Scientific and Practical Museum of SamSU, Asliddin Safarov, Registan Ensemble, Samarkand, Uzbekistan*
- The use of information technologies in the preservation of architectural monuments of the Registan Ensemble, *Samatov Azamat, Klichev Aslamjon, Registan Ensemble, Samarkand, Uzbekistan*
- Digitalization of sculptures using 3D scanning and modeling – the example of the Buddha statue from Termez, *Marek Miłosz, Jacek Kęsik, Lublin University of Technology, Poland, Jannat Ismailova, Ravshan Gulyamov, State Museum of History of Uzbekistan, Tashkent, Uzbekistan*
- Revival of pilgrim tourism on crossroad of the great silk road (on primere tashkentskogo oazisa), *Odiljon Ziyadullaev, Shoira Jumaeva, Chirchik State Pedagogical Institute, Uzbekistan*



- Cluster approach to preserving the cultural heritage of the Tashkent region using 3D technologies, *Bekjan Akhmedov, Chirchik State Pedagogical Institute, Uzbekistan.*

Lunch

14:30 – 16:30 Session 5, CIiZT building, room 302

chairs: *Prof. Bakhodir Eshchanov, Chirchik State Pedagogical Institute, Uzbekistan,*
Dr. Marcin Badurowicz, Lublin University of Technology, Poland

- History and economics of the Great Silk Road, *Gafurjan Mukhamedov, Oybek Ortikov, Farmankul Egamberdiev, Chirchik State Pedagogical Institute, Uzbekistan*
- Great Silk Road: history and the present, *Oybek Abdimuminov, Aziz Mullaev, Academy of Sciences of the Republic of Uzbekistan, Uzbekistan*
- Practical results of scanning artifacts in Chirchik City History Museum, *Marcin Barszcz, Jerzy Montusiewicz, Krzysztof Dziedzic, Sylwester Korga, Lublin University of Technology, Poland*
- Technical aspects of preparing 3D models from the collection of the Afrasiab museum, *Jerzy Montusiewicz, Lublin University of Technology, Poland, Samariddin Mustafokulov, Samarkand Museum Complex, Uzbekistan, Anna Salamacha, Lublin University of Technology, Poland*

16:30 – 17:00 Coffee break

19:00 – 22.00

Dinner in Lanczomania with a performance by the Song and Dance Ensemble of the Lublin University of Technology

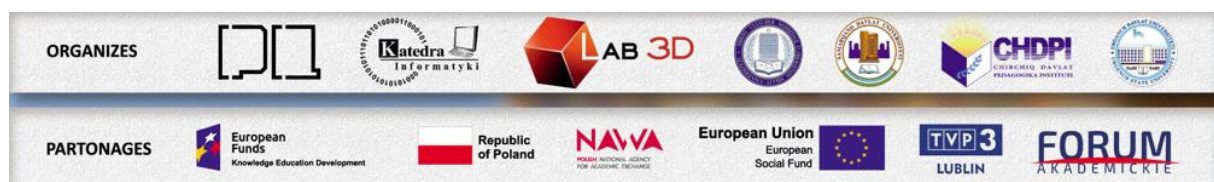
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15 December

9:00 – 12:00 Remote session 6, room 403 d

chair: *Dr. Elżbieta Miłosz, Lublin University of Technology, Poland,*
Prof. Jerzy Montusiewicz, Lublin University of Technology, Poland

- The role of information technologies in protecting the intangible cultural heritage and its presentation to the world community, *Adham Boimurodov, A. Davlatova, N. Zhuraeva, Chirchik State Pedagogical Institute, Uzbekistan*
- Makhalla Institute on the Silk Road, *Dilbar Alimdjanova, Aziz Mullaev, Khamro Rakhmonov, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan*
- Effective use of 3D technology in teaching astronomy to students, *Tatiana Orlova, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan*
- Monuments of the early paleolithic on the territory of Uzbekistan: kulbulak and selungur, *Yarash Gaffarov, Alisher Nigmatov, Chirchik State Pedagogical Institute, Uzbekistan*



- Historical reconstruction of the bronze and early iron age of central asia: ethnocultural processes, migrations and economic relations, *Sagdullaev Anatoliy, National University of Uzbekistan, Abdullaev Utkir, Urgench State University, Togaev Jasur, National University of Uzbekistan, Uzbekistan*
- Nurullabay complex: As a new modern museum, *Utkir Abdullaev, Urgench State University, Masharib Abdullaev, Institute of Art History, Tashkent, Dilmurod Babojonov, Khorezm Mamun Academy, Khiva, Uzbekistan*
- Dorul Hikmat Val Maorif – A modern museum in Khiva, *Akbar Khakimov, Masharib Abdullayev, Khorezm Mamun Academy, Khiva, Uzbekistan*
- Modern technologies in archaeological research (on the example of the newest research in the Khorezm region), *Bakhram Sadullayev, Khorezm Mamun Academy, Masharib Abdullayev, Urgench State University, Uzbekistan*
- The role of electronic resources in the study of the history of the Khiva Khanate, *S. Davletov, U. Tajieva Urgench, State University, Uzbekistan*
- The role of modern information technologies in the study of historical and cultural monuments Ichan Kala, *Tajiyeva Umida, Allanazarov Sirojbek, Urgench State University, Uzbekistan*
- Administrative and economic reform of the soviet government in Uzbekistan, *Otabek Normatov, Alisher Nigmatov, Chirchik State Pedagogical Institute, Uzbekistan*
- Khojakent is a cultural center at the crossroads of the Great Silk Road, *Rano Izzatova, Mavluda Sahobiddinova, Chirchik State Pedagogical Institute, Uzbekistan*
- Urban planning and landscaping under Amir Temur, *Anvar Ganiyev, Shoxsanam Sulaymonova, Chirchik State Pedagogical Institute, Uzbekistan*
- Amir Temur's contribution to the improvement and architecture of the country, *Anvar Tirkashev, Shoxsanam Sulaymonova, Chirchik State Pedagogical Institute, Uzbekistan*
- Formation and stages of development of the Great Silk Road, *Shoxsanam Sulaymonova, Chirchik State Pedagogical Institute, Uzbekistan*

12:00 – 12:30 Coffee break

12:30 Closing of the conference, CLiZT building, room 403

Lunch

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