



3D DIGITAL SILK ROAD
(PPI/APM/2019/1/00004)
INTERNATIONAL ACADEMIC PARTNERSHIPS PROGRAMME

Training program No. 1

Subject: Scanning Small Objects

Dates: November 15-19 (Monday-Friday) 2021

Number of hours: 5 days * 8 hours = 40 hours

Number of people: 12, 3 people each from 4 university centres in Uzbekistan

Training topics:

1. Basic concepts of 2D and 3D computer graphics.
2. 3D modelling of museum objects.
3. 3D scanning of museum objects.
4. Point cloud treatment after the scanning process.
5. Digital use of 3D models – digital museums.

Prepared training materials:

Materials available in two language versions: Russian/English

Training program:

DAY	–	TIME, PLACE, PERSONS
Day 1, Monday 15 Nov	–	<p>9:00-11:15 (3 h)</p> <p>CIIZT building, room 403 E. Miłosz, M. Dzieńkowski: <i>Welcoming, organisational matters</i> W. Franus - Vice-rector for science, M. Miłosz, E. Łukasik, J. Montusiewicz: <i>Presentation of LUT, WEII, 'Lab3D'</i> J. Montusiewicz, <i>Basic concepts of 2D and 3D computer graphics</i></p> <p>11:15-11:30 Coffee break</p> <p>11:30-13:00 (2 h) M. Barszcz, <i>3D modeling of museum objects</i></p> <p>13:00-14:00 Lunch</p> <p>14:00-16:15 (3 h) K. Dziedzic, <i>3D scanning of museum objects</i></p> <p>18:00 Dinner at the Chata ('The Cottage')</p>
Day 2, Tuesday 16 Nov	–	<p>9:00-17:00 (8 h)</p> <p>Kazimierz Dolny <i>Away classes, In situ scanning, Kazimierz Dolny – practical field scanning</i> J. Montusiewicz, M. Barszcz, M. Miłosz, E. Miłosz, Lunch</p>
Day 3, Wednesday 17 Nov	–	<p>9:00-11:15 (3 h)</p> <p>CIIZT building, room 403 S. Skulimowski, J. Kęsik <i>3D scanning of small objects – practical exercises (6 people)</i></p> <p>11:15-11:30 Coffee break</p> <p>11:30-13:00 (2 h) S. Skulimowski, J. Montusiewicz <i>VR (Virtual Reality)</i></p> <p>13:00-14:00 Lunch</p> <p>14:00-16:15 (3 h) S. Skulimowski, J. Kęsik <i>3D scanning of small objects – practical exercises (6 people)</i></p>



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<p>Day 4, Thursday 18 Nov</p>	<p>–</p>	<p>9:00-11:15 (3 h) 11:15-11:30 11:30-13:00 (2 h) 13:00-14:00 14:00-16:15 (3 h)</p>	<p>CIiZT building, room 403; WEil, room 211/212 Presentation of the LARiEi laboratory, room 505. <i>Participation in the plenary session "International Seminar in Bioinformatics 2021. Medical data analysis"</i> Coffee break CIiZT building, room 403 J. Kęsik, <i>Digital use of 3D models – digital museums</i> Lunch M. Badurowicz, <i>The use of a 360° camera – practical exercises</i> K. Żyła, J. Kęsik, <i>3D scanning of small objects – practical exercises</i></p>
<p>Day 5, Friday 19 Nov</p>	<p>–</p>	<p>9:00-11:15 (3 h) 11:15-11:30 11:30-13:00 (2 h) 13:00-14:00 14:00-16:15 (3 h)</p>	<p>CIiZT building, room 403 K. Żyła, <i>Point cloud treatment after the scanning process</i> Coffee break K. Dziedzic, <i>3D scanning of small objects – practical exercises</i> Lunch K. Żyła, J. Kęsik, <i>3D scanning of small objects – practical exercises</i></p>

Support for conducting classes in Russian/English:

- Day one and two: E. Miłosz, M. Miłosz
- Day three: E. Miłosz, J. Warakomski
- Fourth and fifth days: J. Warakomski

Final remarks:

Classes will be conducted with the use of presentations, specialist devices from "Lab 3D" and computer sets intended for own work.