

J-RAPID Workshop on support and utilization of digital archives related to the Kahramanmaraş (Southeast of Türkiye) earthquake (2024/3/12-15)

Theme : The 2023 Kahramanmaraş Earthquake, disaster digital archive

Place : Middle East Technical University (METU), Ankara, Türkiye

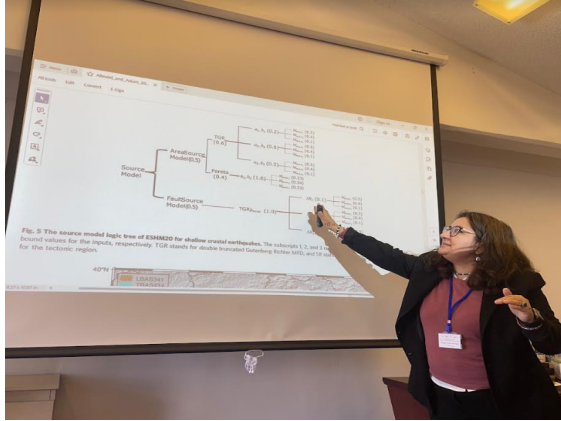
Participants: Prof. Fumihiko Imamura, Assoc. Prof. Anawat Suppasri , Yu Watanabe(D2)

Project on Creation support and utilization of the 2023 Kahramanmaraş Earthquake related digital archive was started from the 31st August 2023. The first workshop for the project was held at the Science Museum on the 15th November 2023, in collaboration with the 1923 Great Kanto Earthquake Special Project. During the workshop, we discussed the role and potential of archives, as well as expectations and future challenges. This time, the second workshop was held at the Middle East Technical University (METU) with the leader of Türkiye side, Prof. Ahmet C. Yalciner, at Ankara, Türkiye during 12-15 March 2024 including students' participation from both Japan and Türkiye on "Disaster Digital Archives for Tomorrow".

The workshop started on the first day (12th March 2024) by having a series of presentations related not only to the 2023 Kahramanmaraş Earthquake but the earthquakes in Japan and disaster digital archive moderated by Assoc. Prof. Anawat Suppasri. Local participants are not only METU students but also participants from JICA Türkiye office. The first presentation was given by Prof. Aysegul Askan and Assoc. Prof. Meltem Senol from METU on seismic hazard assessment before and after the 2023 Kahramanmaraş Earthquake as well as damage and vulnerability in the earthquake affected areas. The second presentation was made by Prof. Hidenori Watanabe (the University of Tokyo) on disaster digital archives and recent initiatives by showing many examples of applications to historical disasters such as the atomic bombing of Hiroshima in 1945, the 1923 Great Kanto Earthquake, the 2011 Great East Japan Earthquake, Russian invasion of Ukraine in 2022 and the 2024 Noto Peninsula Earthquake. The third presentation was made by Prof. Fumihiko Imamura on lessons from the 2011 Great East Japan Earthquake and the 2024 Noto Peninsula Earthquake. The last presentation was made by six graduate school students from the University of Tokyo (Prof. Watanabe's lab) on cutting-edge research using VR, digital map and other technologies using the previously mentioned disasters as research targets.

The second day of the workshop (the 13th March) until the last day of the workshop (the 15th March) was a students workshop for "Disaster Digital Archives for Tomorrow" with participation from graduate students from METU, Tohoku University and the University of Tokyo. Students from both countries were splitted into four groups and worked together to create a prototype of their disaster digital archive using 3D maps and other usable tools. Some ideas such 1) Using game to archiving photos and let the players understand evacuation route, 2) Serious game to let the players

prepare disaster mitigation related goods, 3) Using of projection mapping and idea of immersive museum so that the users understand disaster processes (before disaster, during disaster and after disaster) and 4) using 3D photo technologies and text-mining to let the users understand how to evacuate and trend of working at each disaster stage. This workshop demonstrates a good example of collaboration of the young generation from both countries which is sustainable even after the project has ended.



Presentation by Prof. Aysegul Askan



Presentation by Assoc. Prof. Meltem Senol



Presentation by Prof. Hidenori Watanave



Presentation by Prof. Fumihiko Imamura



Presentation by student



Student workshop

Text and photos : Prof. Fumihiko Imamura, Assoc. Prof. Anawat Suppasri , Yu Watanabe(D2)