

The 2023 IEEE SPS / EURASIP Summer School on Metaverse Technologies (S3P-2023) took place in Cagliari, Sardinia, Italy, from the 18th to the 22nd of September 2023 (website: <https://sites.unica.it/s3p2023/>). The school was organised by Daniele Giusto, Alessandro Floris, Simone Porcu, and Matteo Anedda from the University of Cagliari with the main goal to provide an overview of the state-of-the-art different technologies enabling the Metaverse, such as augmented reality (AR) and virtual reality (VR), 5G/6G networks, Artificial Intelligence (AI), Digital Twin (DT), Computer Vision, Cloud and Edge Computing, Cybersecurity, and Human-to-Computer Interaction (HCI) interfaces.

The school was attended by 14 PhD students from several European universities. The school technical program included the first three days of lectures provided by 12 international recognised experts and researchers from universities and industries, namely, Maurizio Murrone (Associate Professor, University of Cagliari, Italy), Giuseppe Fioccola (Senior Standardization Manager, Huawei Technologies, Italy), Leonardo Chiariglione (Chairman of the organisation MPAAI, Italy), Gordon Wetzstein (Associate Professor of Electrical Engineering, Stanford University, USA), Cornelius Hellge (Video Communication and Applications Department, Fraunhofer HHI, Germany), Riccardo Scateni (Associate Professor, University of Cagliari, Italy), Pablo Pérez (Nokia Bell Labs department for Distributed Reality Solutions, Spain), Davide Maiorca (Assistant Professor, University of Cagliari, Italy), Elisabetta Gola (Full Professor, University of Cagliari, Italy), Thomas Stockhammer (Director technical standard, Qualcomm, Germany), Luigi Atzori (Full professor, University of Cagliari, Italy), and Massimo Farina (Assistant Professor, University of Cagliari, Italy). On the fourth day, the students were divided into 4 groups and involved in a working group activity consisting of writing a short paper focused on Metaverse-related open research issues. On the last day, the 4 groups of students presented their proposed paper with a 10-minute presentation. The best group was awarded by the organizers.

