3RD ITALY-KOREA SYMPOSIUM 2023
DISASTER PREVENTION AND PRESERVATION OF CULTURAL HERITAGE USING ADVANCED ICT TECHNOLOGY
"SMART RESILIENCE OF HISTORIC AREAS AND ARCHAEOLOGICAL SITES"

November 7th, 2023
Lungotevere Grande Ammiraglio Thaon di Revel, 76, 00196 Roma RM

09:00-09:40	**OPENING REMARKS**	
10min	**Dr. Stefano Pizzuti**	Greetings from ENEA
20min	**Mr. Hong, Dong Heum** **Dr. Sang-Yun Lee**	Introduction of ETRI and the history of Symposium
10min	**Prof. Jeongmin Yu**	Introduction of NUCH
09:40-10:10	*Coffee Break*	

10:10-12:20	**Session I, Documenting and representing Smart & Resilient Cultural Heritage** Chair: Sonia Giovinazzi (ENEA, Italy)
10:10-10:40	**Elena Calandra** *(Ministry of Culture, Italy)* *Director of Central Institute for Archaeology, Ministry of Culture, Italy* Digital Cultural Heritage: insights from the European Union and implementation in Italy
10:40-11:00	*Prof. Jeongmin Yu (NUCH, South Korea)* Intelligent Damage Detection System for Preservation of Architectural Heritage
11:00-11:20	**Dr. Ehsanfar, Ebrahim** *(Fraunhofer, Germany)* Digital Twins for Predictive Maintenance and Early Warning: a Case Study for Smart, Resilient and Sustainable Waterways
11:20-11:40	**Mr. Siro Kim** *(WIPCO, Ltd, South Korea)* Publishing 3D Heritage Digital Assets on The Major Gaming Platforms' Market Places
11:40 -12:00	**Prof. Alfonso Ippolito, Dr. Martina Attenni** *(Sapienza University of Rome, Italy)* Digital Documentation Strategies and BIM For Historical Heritage
12:20-13:20	*Lunch Break*

Session II	**H-BIM, Digital Twin, Metaverse and beyond** Chair: Hong, Dong Heum (ETRI, South Korea)
13:20-14:00	**Prof. Jin-ho Park** *Korea University, South Korea* Current Status of Immersive Content in Korean Museums and Expansion to K-Museum
14:00-14:20	**Dr. Ji Hyung Lee** **(ETRI, South Korea)** A Study on the Digital Twin Production of Traditional Korean Wooden Architectures based on H-BIM
14:20-14:40	**Dr. Nicoletta Gozo, Eng. Francesca Parasecolo** (ENEA/OpenFiber, Italy) Smart Future Historic Areas: Open-Lab Pitigliano (Grosseto, Italy)
14:40-15:00	**Mr. Gyoung Hwan LEE (Awesomepia, South Korea)** XR, Metaverse and the Convergence Method in Digital Restoration of National Heritage
15:00-15:20	**Maurizio Pollino** (ENEA Italy) Smart Resilience, Overview of ENEA on-going and Future Projects
15:20-15:30	*WRAP UP AND CLOSURE*

15:30-16:30 Technical Session Post symposium

	From 3D Scan-to-BIM to support Preservation and Fruition of Cultural Heritage	
15:30- 15:40	3D Scan-to-BIM best practices and implementations @ETRI	**Dr. Ji Hyung Lee** (ETRI)
15:40- 15:50	FABRE consortium @ENEA: needs for 3D Scan-to-BIM for the predictive maintenance of bridges and viaducts	**Dr. Antonio Di Pietro** (ENEA)
15:40- 16:00	3D Scan-to-BIM on-going researches @Sapienza University	**Rawan Darwa** (Sapienza)
16:00- 16:10	Open-Source and Low-Cost Digitization of Architectural Heritage: the case study of San Severino di Centola	**Francesco Stanziola** (Sapienza)
16:10- 16:20	The Cultural Heritage Re-Exchange between Egypt and Italy	**Nada Ahmed** (Sapienza)
16:20- 16:30	Discussion, identifications of synergies and possible plans for collaborations/joint research projects	**All**