

[TD1] Special Session on Cultural Heritage	
Date / Time	September 8 (Tue.), 2026 / 13:00~15:30
Place	Room D (Segyero Room 3)
Chairpersons	Prof. Young Hoon Jo (Kongju National University), Dr. Joon-Pyo Jeun (Korea Atomic Energy Research Institute)

[TD1_1] [Invited] 13:00~13:35

Evaluation of Radiation Effects on Paper and Wood based on Changes in Cellulose Degree of Polymerization and Oxidation

Myung-Joon Jeong¹, Yujin Hwang¹, Sungeun Park¹, Antje Potthast²

¹Jeonbuk National University, ²BOKU University

[TD1_2] [Invited] 13:35~14:10

AI-Driven Precision Radiation-Based Conservation Treatment for Cultural Heritage

Jaegi Lee¹, Juyeon Choi¹, Young Rang Uhm¹, Hae-Jun Park¹, Joon-Pyo Jeun¹, Hyungmin Lee¹, Jinhung Park¹, Jeongmin Yu², Dohyung Kwon², Min Su Han²

¹Korea Atomic Energy Research Institute, ²Korea National University of Heritage

[TD1_3] 14:10~14:30

A Segmentation Modeling Methodology for Heritage Artifacts based on Histogram Statistical Analysis of X-Ray CT Images

Seohyeon Kim, Young Hoon Jo

Kongju National University

[TD1_4] 14:30~14:50

A Study on Threshold Setting Methodology Using X-Ray CT Porosity Imaging for the Condition Diagnosis of Heritage Objects

Juyeon Choi¹, Seohyeon Kim², Young Hoon Jo²

¹Korea Atomic Energy Research Institute, ²Kongju National University

[TD1_5] 14:50~15:10

Radiation Disinfection Process Evaluation and AI-Based Precision Treatment Planning for Disaster-Affected Cultural Heritage

Gyeong-Seo Jo¹, Hae-Jun Park²

¹Korea National University of Heritage, ²Korea Atomic Energy Research Institute

[TD1_6] 15:10~15:30

A Characteristics Classification of Cobalt Pigments in Joseon Blue-and-White Porcelain

Na-Young Koo¹, Kye-Ryung Kim², Kang Kim¹, Gyu-Ho Kim¹

¹Kongju National University, ²Korea Atomic Energy Research Institute