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SPECTROSCOPY STUDY OF HERITAGE OBJECTS FOR THE DIGITISATION OF CULTURAL HERITAGE

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Abstract

Cultural heritage objects represent valuable testimonies of the past, which must be kept in the right condition to transmit to future generations. Together with the spectacular progress recorded by humankind regarding technology, opportunities to obtain valuable data on heritage objects so as to preserve them have started to emerge. The current researchers aimed to determine the internal composition of the colours and materials used in some paintings from a historic wooden church monument, from Oradea City, Romania. The samples were taken from icons made in different materials, which were in an advanced stage of degradation. Expert analysis of the samples of the paint layer and plaster base was undertaken using X-ray fluorescent spectrometry. The paper presents the data obtained via spectral analyses of the different sections of the samples taken.

Key words: conservation, cultural heritage, digitisation, paintings, spectrometry

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