



“Gheorghe Asachi” Technical University of Iasi, Romania



SPECTROSCOPY STUDY OF HERITAGE OBJECTS FOR THE DIGITIZATION OF CULTURAL HERITAGE

**Elena Demenchuk¹, Dorina Camelia Ilies^{2*}, Jan A. Wendt³, Yulia Koroleva¹,
Alexandru Ilies², Aleksandr Goikhman¹, Elena Maznitsyna¹, Tudor Caciora⁴,
Grigore Herman², Maria Bilcec⁴**

¹*“Immanuel Kant” Baltic Federal University, 14 Aleksandra Nevskogo Street, 236041 Kaliningrad, Russia*

²*University of Oradea, Faculty of Geography, Tourism and Sport, Department of Geography, Tourism and Territorial Planning,
1 Universitatii Street, 410087 Oradea, Romania*

³*Gdansk University, Faculty of Oceanography and Geography, Institute of Geography, 4 Bażyńskiego Street,
80-309 Gdansk, Poland*

⁴*Doctoral School of Geography, University of Oradea, 1 Universitatii Street, 410087 Oradea, Romania*

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 colors 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.

Keywords: conservation, cultural heritage, digitization, paintings, spectrometry

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* Author to whom all correspondence should be addressed: e-mail: iliesdorina@yahoo.com; Phone: +40 742775814