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DIGITAL SURVEY OF THE LATE 1960'S VILLA IN USTROŃ: CREATING A VIRTUAL MODEL OF A HERITAGE SITE OF POLISH POST-WAR MODERNIST ARCHITECTURE

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Abstract

The paper undertakes the topic of architectural heritage of post-war modernism in Poland. Beside the typical single-family housing solutions from the second half of 20th century (the so-called “Polish cube”) it is possible to point out some examples of houses designed according to the world’s leading design tendencies of that time. Those buildings were established on individual requests of the social elites including scientists, directors and government officials. One of such objects is a modernist villa from the 1960s located in Ustroń – a popular resort at the foot of the Beskid Mountains and built for General Jerzy Ziętek. There is a lack of its accurate, systematic documentation, which would become a basis for a conservation project. Here, we demonstrate a response to this problem which results in the development of a precise inventory documentation and representation of the investigated object, which is a valuable heritage of post-war modernism architecture. Methodology presented in this paper is based on combination of digital tools such as UAV photogrammetry and HBIM modelling and by adding a rich database obtained through thorough research.

Keywords: Architectural survey; Cultural heritage, HBIM, Modernist architecture, Photogrammetry, Single-family housing, UAV.