

## Summary

### **RAFAL ZAPLATA (Cardinal Stefan Wyszyński University in Warsaw) / Research and digital models of architecture monuments – selected issues**

The article is a voice in a discussion on issues connected with historic architecture exhibited and reconstructed in the form of digital reconstructions and models. The text draws attention primarily to modern visualisations which are frequently characterised by lack of authenticity or superficiality. Instead of being the reconstructions based on thorough knowledge, studies and sources, such objects are rather models of non-existent buildings. In two main parts the article addresses and discusses 1) the issue of digital reconstructions, and 2) the issue of examining historic architecture on the basis of digital models. The problems presented (in the context of the above mentioned matters) are e.g. results of encountering digital replicas of historic objects, understanding organisation of space in the past by means of digital models, or finally perceptual differences forming in the material and digital world. The article ends with conclusions and guidelines, among which worth mentioning are: 1) the necessity to build models based on data obtained from direct measurements of architecture monuments or their relics; 2) the necessity to highlight elements that are filled-in – reconstructions not based on resources etc., also in those models which combine graphic technologies with reproductions of existing fragments and/or whole objects; 3) the necessity to add metadata to models, visualisations and reconstructions – descriptions of a manner of creating models, the order in which procedures were applied, tools used, as well as procedures related to acquiring data directly from objects (e.g. laser scanning); 4) the need to generate digital replicas of architecture monuments of such quality as to enable creating inventory documentation, carrying out measurements, further analyses and research on the reproduced objects. One of the research demands expressed in the closing section, is the need to conduct studies and research on the significance, role and impact of digital reproductions and models (not only of historic objects) on their recipients, the society, including the change in perception of the surroundings, buildings or spatial relations, as well as evaluation of monuments themselves.