

# **SHOOTING OF STADIUM „NATIONAL SPORTS ACADEMY" WITH UNMANNED AERIAL SYSTEM AND COMPARISON BETWEEN SOME OF THE MOST FREQUENTLY USED SOFTWARES**

**Veselina Gospodinova , Ralica Neycheva (BG)**

## **ABSTRACT**

The study presents uncrewed (unmanned) aerial shooting of the Stadium “National Sports Academy”. The purpose of the study is to make preliminary researches for the status of the terrain and subsequently to revitalize the tartan pavement. It was used a DJI Phantom 4 RTK uncrewed (unmanned) aerial system for the shooting. The photogrammetric processing was made in the Agisoft Metashape and Pix4D Mapper software environment. It was executed a comparison between the softwares in terms of features’ product and obtained results.

Keywords: aerial photogrammetry, uncrewed (unmanned) aerial system, shooting of stadium

## **AUTHORS:**

**Assoc. Prof. Dr. Eng. Veselina Gospodinova**  
University of Mining and Geology “St. Ivan Rilski”  
Faculty of Mining Technologies  
Department of Mine Surveying and Geodesy  
Prof. Boyan Kamenov Str., Sofia, Bulgaria  
Tel. +359899830236  
E-mail: [veselina\\_gospodinova80@abv.bg](mailto:veselina_gospodinova80@abv.bg)

**Eng. Ralitsa Neycheva**  
University of Mining and Geology “St. Ivan Rilski”  
Faculty of Mining Technologies  
Department of Mine Surveying and Geodesy  
Prof. Boyan Kamenov Str., Sofia, Bulgaria  
Tel. +359899627417  
E-mail: [ralica1997@abv.bg](mailto:ralica1997@abv.bg)