INTERNATIONAL BALKAN UNIVERSITY

ICSSH 2018

INTERNATIONAL CONFERENCE ON SOCIAL SCIENCES AND HUMANITIES

SUSTAINABLE DEVELOPMENTS: TRENDS AND OPPORTUNITIES

SKOPJE, 4-6 MAY 2018

BOOK OF ABSTRACTS

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Content

Computer Simulation on of air currents in the space in which the sculpture "Red Polygon" is positioned

Slobodan Miloseski
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The main approach to studying the flow of fluids and their streaming around solid objects is based on combinations of computational and model investigations. However, when designing, it is often difficult to perform a number of model (experimental) investigations, due to the actual cost of designing the model and the specific test conditions. For these reasons, it is often approached to perform simulation optimization through specialized software, which aims at obtaining a more complete image of the stream, which involves calculation and analysis in the field of speeds and pressures.

The tasks of this particular research focus on the determination of the air current field, in a space in which a kinetic art object is placed. Its main aesthetic function is based on movement in the designated space, which of course depends on the influence of airflow.

For this purpose, a modern approach towards determining the airflow field is selected using the Flow simulation module, which is an integral part of the SolidWorks software package. These simulations in a virtual environment are performed on the developed 3D numerical model of the sculpture "Red Polygon" in scale 1:1. This particular artwork is owned by the Museum of Contemporary Art in Skopje and is the author's work by world famous sculptor Alexander Calder.

The main goal of these analyses is to clearly present how the airflow and the sculpture themselves interact in the space, whereby we would be able to explain and predict its dynamic behaviour. On the basis of the obtained data, we contribute specifically to the demystification of the spatial functioning of this type of artwork.

Keywords: kinetic sculptures, mechanics of fluids, aerodynamics.