

MODELING THE DIRECTION OF THE SPREAD OF FOREST FIRE TO PREDICTION

Stanimir Živanović

Summary: In Serbia, as well as in the rest of the world there are the records of damages caused by forest fires. There is a growing need for an application and a model that would provide information about the certainty and probability of fire danger in forests. Fire departments need data about the speed and direction of fire and further spread, speed and direction. This paper describes and evaluates a new approach for predicting the spread and direction of fires in Serbia. The paper presents models of forest fires that can produce a system for decision support for those fighting the fire. FARSITE (Fire Area Simulator, Finney, 1994) program is designed for use on Windows computers with the ability to view simulated results in map form. This paper has presented the basic principles and mechanisms FARSITE models, to provide a reference for the development of simulation models of fire in Serbia.

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