



Modelling, Monitoring and Management of Forest Fires (Wit Transactions on Ecology and the Environment)

J. de las Heras, C. A. Brebbia, D. Viegas, V. Leone

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At present there is insufficient knowledge of the behavior of fires and how they propagate. This lack of information makes it very hard to control these phenomena and is one of the biggest obstacles to the development of a reliable decision support system. Public concern regarding this topic is increasing as uncontrolled fires may lead to major ecological disasters, and usually result in negative economic and health implications for the region.

Containing papers presented at the First International Conference on Modelling, Monitoring and Management of Forest Fires, this book addresses the latest research and applications of available computational tools to analyze and predict the spread of forest fires in order to prevent or reduce major loss of life and property

as well as damage to the environment. Such tools must be able to take into consideration a large number of different parameters. The book thus deals with all aspects of forest fires, from fire propagation in different scenarios to the optimum strategies for fire-fighting. It also covers issues related to economic, ecological, social and health effects.

Featured topics include: Computer Models for Fire Propagation; Risk and Vulnerability Assessment; Fire Combustion Models; Computational Methods and Experiments; Case Studies; Emergency Response Systems; Optimization Models for Fire Mitigation; Environmental Impact Models; Air Pollution and Health Risk; Interaction between Meteorological and Forest Fires Models; Economic Impact Models; Forest Material Characterisation; Eco Remediation Models; Decision Support Systems; Monitoring Systems and Data Acquisition and Analysis.

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