

Forest fires spread of computer simulation and visualization of progress

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Abstract: Forest fire spreading forest fire behavior is the main manifestations. In this paper, various forest fires spread of computer simulation and visualization technology of the latest research and development trends are reviewed. First, the spread of forest fires related to the mathematical model of the type and characteristics of the model development and system formed. Secondly, based on cellular automata and the Huygens principle of two Weilin fire simulation and display technology and 3D virtual environment of fire technology. Finally, on the spread of forest fires and Management Information System summarized the latest developments. that fire spread simulation and visualization of the research and development in addition to high-precision the direction and development of practical, realistic focus on the future will be multi-dimensional virtual environment of the forest landscape, multi-user participation in the rapid decision-making capacity (such as with fire), and network information services.

Keywords: Forest fire spread; Simulation or emulation; Mathematical model; 3D virtual environment; Information Systems

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Research advance in simulation and visualization of forest fire spreading via computer

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