

Zischg, A. (2004): Analyse des Systemverhaltens von Nassschneelawinen als Basis für die Generierung von dynamischen Gefahrenhinweissystemen am Beispiel der Ortlergruppe (Südtirol). In: Schutz des Lebensraumes vor Hochwasser, Muren, Lawinen und Hangbewegungen. Internationales Symposium INTERPRAEVENT 2004, Riva del Garda/Trient, 24.-27.Mai 2004, Band 2, Thema 6 Lawinen: S. 229-240.

Abstract

This paper describes a preliminary model of a rule-based expert system which calculates the time-variable release disposition for wet snow avalanches triggered without the loading of new snow. Investigations in the Italian Ortles Alps on the system behaviour of wet snow avalanches were the basis to formalize the knowledge base of the model. Output of the inference method is the membership of the considered time interval to the fuzzy set of “disposition for wet snow avalanches” or “no avalanches”. The spatial interpolation of the calculated disposition and the combination with topological parameters leads to a hazard map generated dynamically.