

# **REGIONAL LANDSLIDE SUSCEPTIBILITY MAPPING BASE ON SOME APPROACHES AND CONSIDERING THE BEST ONE FOR FINAL RESULTS FOR THUA THIEN HUE AREA, VIETNAM**

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## **ABSTRACT**

*Thua Thien Hue is a middle province of Vietnam, where landslides occur frequently seriously affect life of local inhabitants, and social-economic developing plants, in particular at the western mountainous regions. With objectives as gaining a better understanding of the landslide susceptibility spatial distribution of study area, estimating the difficulties in applying techniques and to suggesting the best technique for application in central Vietnam, three approaches of probabilistic, certainty factor and slope stability models are applied. These using 198 landslides have been observed together with causative factors that are transferred and prepared in GIS formats to produce maps of landslide susceptibility zonation in regional scale. Base on the evaluation of the accuracy and precision of them, the best method for landslide susceptibility mapping in the study area and its result map is considered. As a result, recommendations about landslide risk in the study area are formulated for administrators and local inhabitants.*