



## **SIMULATION OF EVACUATION PROCEDURES TO ESTIMATE THE LOSS OF LIFE DUE TO TSUNAMI**

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### **SUMMARY**

This article deals with a method to estimate the loss of life due to tsunami. Using the tsunami numerical modeling and the agent based simulation of evacuation of a population exposed to a tsunami; the probable number of casualties is evaluated. The multiple possible behaviors for departing decision on residents are modeled using a stochastic approach of bound behaviors obtained from questionnaire data and the numerical simulation of tsunami. A study case of La Punta district in Peru is presented. Results show the possible stagnation of vehicles in the road and the necessity of the vertical evacuation and a rapid response by the population.