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## **INDICATORS FOR THE ASSESSMENT OF EXPOSURE TO GEOMORPHOLOGIC AND HYDROLOGIC PROCESSES**

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### **Abstract**

The recrudescence and diversification of natural and anthropic hazards over the past decades are mainly attributed to an increase in the vulnerability of human communities. Understanding this vulnerability, as central predictive variable within the risk equation, proves to be a highly useful tool in land planning, namely in the development of various strategies. The current paper aims at proposing and integrating certain indicators into the methodology used in the evaluation of exposure to both slope and riverbed geomorphologic processes, and hydrologic processes, as: (i) distance from landslides; (ii) distance from riverbanks; (iii) water level growth in case of floods; (iv) service capacity of roads. The use of GIS analysis tool and application of multi-criteria analysis such as Analytical Hierarchy Process (AHP) allow both to evidence the exposure degree to the above listed processes and the assessment of factors weight in the vulnerability degree of region.

*Key words:* geomorpho-hydrologic process, GIS analysis, physical exposure assessment indicators

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