



## **Safety Assessment of Landslide by Electrical Tomography: A case study from Ardabil, Iran**

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Safety assessment of landslides in risk bearing areas over linear civil structures has an important role in programming the following designs. As a part of a program, after a landslide in Saien, in June, 2005, which ruined a part of Nir-Sarab Road, electrical tomography has been performed to detect the unstable risk zones in order to make precautions to avoid further destructions in future constructions. During these surveys, electrical sounding data has been used in 2-D and 3-D blocky inversion programs that optimize the final model using least square method, showing geometrical distribution of landslide and sliding surface.