



## **Automatic inclinometer system for landslide monitoring**

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The CNR IRPI of Torino is involved since many years in the development of new landslide monitoring instrumentations. In this field it has been designed and patented a new instrument to execute automatic inclinometric measurements. The process is based on the use of a standard inclinometric probe connected to an electronic device able to replace an human operator and to manage the measurement in automatic and with a remote control connection. This instrument, developed and improved during the time, ha been used to monitor the evolution of a series of landslide phenomena in Appenninic and Alps environment ( Northern Italy ), allowing, in some cases, to define response times between rainfalls and displacements reactivations. In this work a case study is presented that is related to a planar slide typical of Langhe area ( South Piedmont ), where the geological asset creates predisposing conditions for this type of phenomenon. Through available data (2003 – 2008) it was possible to define its evolution and evaluate the potentiality of the instrument.