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Prediction of slope failures based on massive and multi-temporal inverse velocity analysis of satellite InSAR and ground-based radar data

PAOLO FARINA
GEOAPP s.r.l.
Italia

PhD Geosciences, M.Sc Engineering Geology, Chartered Engineering Geologist. Currently managing Geoapp, a service and consultancy company he founded in 2015 as spin off of the University of Firenze, focused on geotechnical risk assessment for mining, natural hazards and infrastructure projects, particularly on dams, pipelines, and mining projects. His specialties are monitoring technologies, early warning systems and engineering geology, with a focus on satellite InSAR and slope stability radar and GPS, integrated data analysis and interpretation and structural mapping based on remote sensing data, such as laser and photogrammetric point clouds. From 2007 to 2015 he worked for IDS, where he created and managed since 2010 the Mining Business Unit leading to the successful introduction of a new SAR based radar into the mining industry.

Before joining IDS, from 2003 to 2007, he worked as assistant professor of engineering geology at the University of Firenze working as consultant for the Italian Civil Protection Department on more than 20 projects. He was visiting scientist at MIT, US, in 2004-2005. His scientific work has around 2.200 citations and more than 60 scientific publications on international peer reviewed journals on engineering geological topics