

Prof. Angelo Amorosi

Associate Professor Angelo Amorosi of the Technical University of Bari will be the Guest Editor for the Issue on Constitutive Equations for soil Behaviour. Angelo had his education including his Doctoral Degree from University of Rome. He was also a Visiting Academic at the University of Oxford with Prof. Guy Houlsby. The research interest of Angelo is on : (1) Experimental investigation on the mechanical behaviour of clayey soils with particular reference to ‘very small strain stiffness’ as observed by dynamic testing technique; evolution of the mechanical response due to: strain induced ‘structure’ (i.e. bonding) degradation process, isotropic or anisotropic stress histories and recent cyclic stress history; (2) Constitutive modelling of saturated soils in the frame of multi-surface hardening plasticity; application of thermo-mechanical principles to the modelling of elastic and elasto-plastic coupled behaviour of saturated soils; (3) Constitutive modelling of masonry and its application to model ancient structures; Computational plasticity, with particular reference to implicit/explicit integration schemes for complex constitutive models; (4) Finite Element analyses of geotechnical boundary value problems: excavation and tunnelling in clayey soils, interaction between underground excavations and surface masonry structures, seismic site effects, seismic behaviour of earth dams and tunnels.

An active researcher with several sponsored research projects sponsored by the Italian Ministry of Education, Angelo has been a Referee for reviewing articles in many journals: Geotechnique, Canadian Geotechnical Journal, International Journal of Numerical Methods in Engineering, Acta Geotechnica, Italian Geotechnical Journal, International Journal of Numerical and Analytical Methods in Geomechanics, Geotechnical and Geological Engineering. Angelo has published very widely in Geotechnique; ASCE, Journal of the Geotechnical and Geoenvironmental Engineering Division; International Journal of Numerical and Analytical Methods in Geomechanics; Italian Geotechnical Journal; Soil Dynamic and Earthquake Engineering. He has also published extensively in International and Regional Conferences.