

ALERT Workshop Papers published on the Italian Geotechnical Journal (RIG, Rivista Italiana di Geotecnica)

From 2001 to 2008 the Editor of the Italian Geotechnical Journal (RIG, Rivista Italiana di Geotecnica), Prof. Roberto Nova invited contributors to one of the session of the Alert Workshop to submit their work for publication on the journal.

RIG is the fully peer-reviewed journal published of the Italian Geotechnical Society (AGI, Associazione Geotecnica Italiana).

Recently AGI has renewed its web site (<http://www.associazionegeotecnica.it>) making available for free download the complete archive of the RIG, hence the papers presented at Alert Workshops can be downloaded from the searchable internet archive:

<http://www.associazionegeotecnica.it/rig/archivio>

I compiled for your convenience the list of the aforementioned papers, with the possibility to access directly the pdf file of each article (except the ones from Alert 2007 and Alert 2008, which will be available on line respectively in year 2011 and year 2012)

Best Regards

Sebastiano Foti

(Politecnico di Torino – AGI delegate for the website)

[ALERT Workshop 2001](#)

Tuesday October 9th 2001 : “Mechanics and physics of granular materials”

R.I.G.: 3/03

Authors	Title	Pag	Download
Vardoulakis I., Calvetti F.	Preface	9	46.28 KB
Darve F.	Foreword	10	72.12 KB
Calvetti F., Viggiani G., Tamagnini C.	A numerical investigation of the incremental behavior of granular soils	11	1.57 MB
Kishino Y.	On the incremental nonlinearity observed in a numerical model for granular media	30	728.49 KB
Radjai F., Troadec H., Roux S.	Micro-statistical features of cohesionless granular media	39	1.06 MB
Dubujet P., Nouguiet- Lehon, Cambou B.	Change of scale for kinematic variables in granular materials: difficulties and limitations	50	477.19 KB
Darve F., Laouafa F., Servant G.	Discrete instabilities in granular materials	57	1.03 MB
Claquin C., Emeriault F.	Interface behaviour of polydisperse granular materials: discrete element modelling of ring simple shear tests	68	1.1 MB
Vardoulakis I., Papamichos E.	A continuum theory for erosion in granular media	83	607.75 KB

[ALERT Workshop 2002](#)

Monday October 7th 2002 : "Geomechanics for Natural Hazards"

R.I.G.: 2/04

Authors	Title	Pag	Download
Viggiani C., Vulliet L.	Preface	9	55.2 KB
Darve F.	Foreword	10	84.25 KB
Cascini L.	The Flowslides of May 1998 in the Campania Region, Italy: The Scientific Emergency Management	11	5.23 MB
Berthet-Rambaud P., Perrotin P., Timsah Y., Mommessin M., Mougou J.P., Mazars J., Daudeville L.	Impact of a reinforced concrete roof slab by falling rocks: experiments and modeling	45	978.73 KB
Hicks M.A., Samy K.	Stochastic evaluation of heterogeneous slope stability	54	1.25 MB
Prina E., Bonnard C., Vulliet L.	Vulnerability and risk assessment of a mountain road crossing landslides	67	2.02 MB
Heidenreich B., Labiouse V.	Small-scale experimental study of rockfall impacts on granular slopes	80	1.22 MB

[ALERT Workshop 2003](#)

Monday October 6th 2003 : "Geomechanics for transportation engineering"

R.I.G.: 4/04

Authors	Title	Pag	Download
Kolymbas D.	Foreword special issue	9	
Viggiani G., Soccodato F.M.	Predicting tunnelling-induced displacements and associated damage to structures	11	1.77 MB
Chebli H., Clouteau D., Modaressi A.	Three-dimensional periodic model for the simulation of vibrations induced by high speed trains	26	395.44 KB
Maehr M., Herle I.	Volume loss and soil dilatancy	32	1.41 MB
Vrettos C., Savidis S.	Seismic design of the foundation of an immersed tube tunnel in liquefiable soil	41	421.1 KB
Boldini D., Lackner R., Mang H.A.	Influence of face reinforcement and shotcrete support on static conditions of deep tunnels: a thermo-chemo-mechanical study	51	1009.82 KB

[ALERT Workshop 2004](#)

Tuesday October 12th 2004 : "Gravitational Flows and Structure Vulnerability"

R.I.G.: 4/05

Authors	Title	Pag	Download
Cascini L., Cuomo S., Sorbino G.	Flow-like mass movements in pyroclastic soils: Remarks on the modeelling of triggering mechanisms	11	2.8 MB
Fernandez-Merodo J.A., Tamagnini R., Pastor M., Mira P.	Modelling damage with generalized plasticity	32	1.17 MB
Cresseri S., Jommi C.	Snow as an elastic viscoplastic bonded continuum: a modelling approach	43	1.07 MB
Nicot F., Darve F.	A micro-directional model for cohesive-frictional materials: application to snowpack	59	1.05 MB
Stuppazzini M., Zambelli C.	GEO-ELSEvp: a spectral element approach for dynamic elastoviscoplastic problems	70	1.72 MB
Sébastien Hentz, Frédéric V. Donzé, Laurent Daudeville	Discrete Element Modelling of a Reinforced Concrete Structure Submitted to a Rock Impact	83	2.05 MB
Francesco Calvetti, Claudio di Prisco, Mauro Vecchiotti	Experimental and numerical study of rock-fall impacts on granular soils	95	2.35 MB

[ALERT Workshop 2005](#)

Tuesday October 11th 2005 : "Geostructural dynamics and waves in geomaterials"

R.I.G.: 2/07

Authors	Title	Pag	Download
Muir Wood D.	Introduction	9	
Lai C.G., Meza-Fajardo K.C.	On the implications of the principle of physical causality in the propagation of seismic waves in geomaterials	10	996.18 KB
Arroyo M.	Wavelet analysis of pulse tests in soil samples	26	645.11 KB
Foti S., Comina C., Boiero D.	Reliability of combined active and passive surface wave methods	39	653.62 KB
Greening P., Rio J., Arroyo M.	Some observations from a parametric study of the behaviour of benders in a polyurethane rubber	48	344.89 KB
Nash D., Sukolrat J., Greening P., Benahmed N.	Comparison of shear wave velocity measurements in a soft clay specimen using time and frequency domain techniques	56	516.13 KB
Sadek T., Lings M., Dihoru L., Muir Wood	Wave transmission in Hostun sand: multiaxial axperiments	69	939.9 KB

[ALERT Workshop 2006](#)

Tuesday October 10th 2006 : "Soil-Structure Interaction"

R.I.G.: 2/08

Authors	Title	Pag	Download
Tamagnini C., Vuillet L.	Foreword	9	32.47 KB
Nova R., Parma M., Castellanza R.	Settlements of shallow foundations on soft rocks	10	2.6 MB
Bilotta E., Russo G., Viggiani C.	Numerical analysis of piles to reduce ground movements induced by shallow tunnelling	23	1.02 MB
Muir Wood D., Johansson J.	Interaction of flexible structures with moving ground	31	1 MB
De Gennaro V., Frank R., Said I.	Finite element analysis of model piles axially loaded in sands	44	2.82 MB
Saez E., Lopez-Caballero F., Farahmand-Razavi A.M.	Effects of non-linear soil behaviour on the seismic performance evaluation of structures	63	1.17 MB

[ALERT Workshop 2007](#)

Wednesday October 10th 2007 : "Time-Dependent Processes in Geomechanics"

R.I.G.: 1/09

Authors	Title	Pag	Download
Vardoulakis P., Stavropoulou M., Exadaktylos G.	Sandbox modeling of the shallow tunnel face collapse	9	2011
De Gennaro V., Pereira J.-M., Gutierrez M., Hickman R.	Viscoplastic modelling of fluids filled porous chalks	44	2011

[ALERT Workshop 2008](#)

Wednesday October 10th 2007 : "Field and laboratory testing"

R.I.G.: 1/10

Authors	Title	Pag	Download
Aversa S.	Editoriale	9	2012
Arroyo M., Delage P.	Introduction	13	2012
Comina C., Cosentini R. M., Foti S., Musso G.	Electrical Tomography as laboratory monitoring tool	15	2012
Bruckl J., Wang X. T., Wu W.	Field tests on effect of concrete age on pile integrity testing	27	2012
Ghabezloo S., Sulem G,	Temperature induced pore fluid pressurization in geomaterials	35	2012
Mitaritonna G., Amorosi A., Cotecchia F.	Multidirectional bender element measurements in the triaxial cell: equipment set-up and signal interpretation	50	2012