

# **Curriculum vitae**

## **Professor Claudio Giulio di Prisco**



### **Personal Information**

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Name: Claudio Giulio di Prisco  
Nationality: Italian  
Date of Birth: 9/11/1964  
Current position: Professor of Soil Mechanics and Slope Stability  
Politecnico di Milano, Italy

### **Education**

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- 1993**: Ph.D. in Geotechnical Engineering, Politecnico di Milano, Milano, Italy. Discussion of the Ph.D thesis in Rome. Dissertation title: "The anisotropy of sands: experimental investigation and mathematical modeling" (in Italian).
- 1989**: Admitted to the Vth cycle of Doctorate in Geotechnical Engineering
- 1989**: M.Sc. in Civil Engineering. Politecnico di Milano, Milano, Italy. Dissertation title: "A constitutive model of the anisotropic mechanical behaviour of sands". Graduated with full marks and summa cum laude.
- 1983**: High School Degree (Liceo Classico) Liceo Ginnasio G. Parini

### **Academic appointment and employment history**

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- 2006**: Full Professor of Geotechnics at Politecnico di Milano
- 2000**: Associate Professor of Geotechnics at Politecnico di Milano
- 1997-1999**: Temporary Professor of Geotechnics at Politecnico di Milano
- 1996**: Temporary professor of Slope Stability at Politecnico di Milano
- 1992**: Assistant professor of Geotechnics at Politecnico di Milano (Department of Structural Engineering)

### **International Research activities**

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- 1990**: Visiting young researcher, for an eight months period, at the Laboratory 3S-R, Université J. Fourier, Grenoble, (France). Experimental research under the supervision of Prof. F. Darve and Prof. J.Lanier
- 1994**: Visiting researcher at Imperial College of London (UK) (1 month)

### **Institutional charges**

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- Member of the Board of the Doctoral School of the Structural Engineering Department of Politecnico di Milano
- Member of the Board of the Doctoral School in Geotechnical Engineering of Politecnico di Torino.
- Responsible for ERASMUS students for the Civil, Environmental and Territorial School of Politecnico di Milano

## **Main research fields**

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- Study of the anisotropy of the mechanical behaviour of sands
- Experimental and theoretical analysis of the phenomenon of static liquefaction of loose sands
- Theoretical analysis of the unstable response of non-associated elasto-plastic strain-hardening materials
- Time dependence of the mechanical behaviour of soils
- Constitutive modeling of granular materials by taking into account the granular temperature state variable
- Experimental and theoretical study of the mechanical behavior of lightweight granular materials
- Study of the mechanical behavior of cemented materials
- Numerical analysis of the phenomenon of localization in geotechnical materials by means of non-local approaches
- Compaction bands in porous natural materials: experimental, numerical and theoretical issues
- Numerical and theoretical analysis of the response of natural slopes under seismic actions**
- Analysis of the interaction between soil and buried pipelines along landslide**
- Design for piles for landslide prevention**
- Design of superficial anchored nets for the stabilization of natural slopes**
- Impacts of rock boulders on sand strata**
- Design of sheltering structures (artificial tunnels)**
- Experimental and theoretical analysis of the mechanical behaviour of shallow foundations under cyclic/dynamic actions
- Analyses and design of the hydro-mechanical response of geo-encased columns.**

## **Participation to funded research projects**

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- 2013-15:** Project Prin-MIUR '13: "The landslide risk mitigation by means of sustainable interventions"
- 2012-2014:** PON project- "Landslides risk mitigation project" PON.01
- 2010-13:** Project RELUIS: "Legislative proposal: seismic local amplification effects" - "Study of the seismic response of shallow foundations on complex stratigraphy.
- 2009-12:** EU Project Accident ID 7629770: Interreg Italia-Svizzera Misura 2.2 - Programma Operativo di Cooperazione transfrontaliera Italia Svizzera 2007-2013: "Tunnels subjected to Fire and Blast"
- 2009-11:** EU Safeland: Living with landslide risk in Europe - subcontractor of UNISA
- 2008-10:** Project Prin-MIUR'07: "Theoretical-numerical and experimental analysis of the triggering mechanisms of landslides in low-density granular materials"
- 2005-08:** Project RELUIS: Progetto Esecutivo 2005-2008 - Accordo di Programma Quadro DPC-Reluis – Task 4 - "Development of displacement approaches for the design and assessment of the vulnerability of shallow foundations"
- 2004-07:** EU LESSLOSS - Risk Mitigation for Earthquakes and Landslides - subcontractor of UNIMIB
- 2004-06:** Project FIRB-MIUR 04: Multidisciplinary approach for the assessment of the vulnerability of large landslides
- 2002-05:** CEE Project DIGA: Degradation and Instabilities in Geomaterials with application to hazard mitigation
- 2002-04:** Project Prin-MIUR'02: "Modelling of pipeline-landslide interaction"

## The most recent geotechnical consultant activity

### **Topic**

Landslides and retaining structures  
Numerical assessment of settlements of MOSE (Venice)  
Optimization of an innovative nailing system (TECCO)  
Numerical analysis of an innovative deep anchoring system  
Use of geosynthetics in the design of underwater retaining structures  
Risk assessment of coastal cliffs  
Risk assessment of abandoned caves  
Design of anchored retaining structures  
Stabilization of artificial embankments by means of piles  
Design of pipes along unstable slopes  
Design of reinforced railways embankments  
Stability of artificial dams  
Design of sheltering structures  
Use of lightweight materials in the construction of road embankments  
Use of lightweight materials in the design of tunnels  
Stability of reinforced slopes in Val Pola (Lombardia-Italy)  
Design of large disposal pools in Romania (Iasi)  
Stabilizations of Fantoni landslide  
Design of GEC  
Risk assessment of the slope of an abandoned mine in Costamasnaga (LC)  
Design of drainage pipes along an artificial dam in Lonate Pozzolo (VA)  
Numerical modeling of the excavations works of an underground parking structure

### **Client**

Italian Courts  
Technital (Italian private engineering company )  
Geobrugg (Switzerland)  
TFEG  
Sicily (Italy) territorial Institution  
  
Puglia (Italy) territorial Institution  
Emilia Romagna (Italy) territorial Institution  
Graftech (Italian Industry)  
Ferrovie Nord (Italian railways company)  
Snam-Retegas  
TENAX  
Provincia di Varese  
Veneto Strade  
Laterlite  
  
Laterlite  
Castelli company  
EMIT company  
Studio Cancelli  
Tencate s.p.a.  
Holcin s.p.a.  
  
F.lli Mara s.r.l.  
  
Lombardi-Reico

## Membership and Affiliations

-Vice-president of the Italian Chapter of AGI-IGS (International Geosynthetics Society)  
-**2005-2011**: Director of the International Association Alert Geomaterials <http://alertgeomaterials.eu/>  
-Member of the TC 207 "Soil-Structure Interaction and Retaining Walls" of the ISSMGE  
-Component of PhD juries in France (Lyone and Grenoble) and Italy (Milan, Turin, Rome, Padua, Catania, Genoa)  
-Committee member for associate professor(HDR)in France(Metz and Lyon), Czech Republic (Prague)and Italy(Milan)

## Membership to Editorial Boards of International Journals

Member of the Editorial Board of International Journal of Solids and Structures  
Member of the Editorial Board of "European Journal of Environmental and civil Engineering"  
Member of the Editorial Board of "Engineering Geology"  
Member of the Editorial Board of "Rivista Italiana di Geotecnica"  
Member of the Editorial Board of "Geotechnique" from 2014 to 2017

## List of publications

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### INTERNATIONAL JOURNALS

1. Lanier J., di Prisco C., Nova R. (1991) "Etude experimentale et analyse théorique de l'anisotropie induite du sable d' Hostun", Rev. Franç. Geotech. n.57, pp. 59-74
2. di Prisco C., Nova R. (1992) "Stress dilatancy of sand at small stress ratio states" Discussion, Soils and Foundations, 31, 2, pp.184-187
3. di Prisco C., Nova R., Lanier J. (1993) "A mixed Isotropic-kinematic hardening constitutive law for sand", Modern Approaches to Plasticity, D. Kolymbas ed., Elsevier App. Sc., pp-83-124
4. di Prisco C., Nova R. (1994) "Stability problems related to static liquefaction of loose sand", Localisation and Bifurcation Theory for Soils and Rocks, Chambon et al. eds, Balkema, Rotterdam pp.59-72
5. **di Prisco C., Matiotti R., Nova R. (1995) "Theoretical investigation of the undrained stability of shallow submerged slopes", Geotech. 45, No.3, pp.479-496**
6. di Prisco C. (1996) "A Mathematical Interpretation of the Volumetric Instability of Loose Sands", Comp. and Geotech.,Vol.18, No. 3, pp. 225-244
7. di Prisco C., Imposimato S. (1996) "Time dependent mechanical behaviour of loose sands", Mechanics of Cohesive-frictional Materials, Vol.I, N.1,pp.45-74
8. di Prisco C., Imposimato S. (1997) "Experimental Analysis and Theoretical Interpretation of Triaxial Load Controlled Loose Sand Collapses", Mechanics of Cohesive-frictional Materials, Vol.2, pp. 93-120
9. **Crosta G., di Prisco C. (1999) " On slope instability induced by seepage erosion", Can. Geotech. J. 36, pp. 1-18**
10. di Prisco C., Imposimato S., Vardoulakis I. (2000) "Mechanical Modelling of Drained Creep Triaxial Tests on Loose sand" Geotechnique 50, No.1, 73-82
11. di Prisco C, Pastor M. (2000) "Constitutive Equations in Plasticity", in Constitutive Modelling of Geomaterials, B. Cambou & C. di Prisco eds., Rev. Franç. Geotech. Vol.4, n.5/2000, Hermes editor
12. di Prisco C., Luisi C. (2001) "Le argille espanse nella costruzione di rilevati artificiali" STRADE & AUTOSTRADE, vol. 5, p. 38-42
13. di Prisco C., Aifantis E., Imposimato S. (2002) "A visco-plastic constitutive model for granular soils modified according to non-local and gradient approaches" Int. Jour. Num. Anal. Meth. Geomech. 26, pp. 121-138
14. **di Prisco C. Imposimato S. (2002) Static Liquefaction of a saturated loose sand stratum IUTAM, Conf. – Austin 2001 International Journal of Solids and Structures 39, pp. 3523-3541**
15. di Prisco C., Imposimato S. (2003) "Non Local numerical analyses of strain localisation in dense sand", Mathematical and Computer Modelling 37, pp 497-506
16. di Prisco C., Zambelli C. (2003) " Cyclic and dynamic mechanical behaviour of granular soils: experimental evidence and constitutive modelling" Geodynamics and Cyclic Modelling, L. Daudeville & C. di Prisco eds., Rev. Franç. Geotech. , Hermes editor pp.881-910
17. Calvetti F., di Prisco C., Nova R. (2004) "Experimental and numerical analysis of soil-pipe interaction" Journal of geotechnical and geoenvironmental engineering, vol. 130, p. 1292-1299
18. Cornegia A., di Prisco C., Nova R. (2004) "A Model for landslide-pipe interaction analysis" Soils and foundations, vol. 44, p. 1-12
19. Calvetti F., di Prisco C., Vecchiotti M. (2005) "Experimental and numerical study of rock-fall impacts on granular soils" Rivista Italiana di Geotecnica. vol. 4
20. di Prisco C., Luisi C., Vecchiotti M. (2005) "Modalità di valutazione empirico-teorica dello stato di addensamento di un'argilla espansa". LE STRADE, p. 160-167
21. di Prisco C., Massimino M., Maugeri M., Nicolosi M (2005) "Cyclic numerical analyses of Noto Cathedral: soil-structure interaction modelling" Rivista italiana di geotecnica

22. di Prisco C., Recalcati P., vecchiotti M. (2006) "Comportamento meccanico di rilevati ferroviari rinforzati sottoposti a carichi ciclici" *L'ingegnere e l'architetto*, p. 1-6
23. di Prisco C., Vecchiotti M. (2006) "A rheological model for the description of boulder impacts on granular strata" *Geotechnique*, vol. 56, pp. 469-482
24. di Prisco C., Stupazzini M., Zambelli C. (2006) "Nonlinear SEM numerical analyses of dry dense sand specimens under rapid and dynamic loading" *International journal for numerical and analytical methods in geomechanics*, vol. 31, pp. 757-788
25. di Prisco C., Stupazzini M., Zambelli C. (2006) "Nonlinear SEM numerical analyses of dry dense sand specimens under rapid and dynamic loading" *International journal for numerical and analytical methods in geomechanics*, vol. 31, pp. 757-788
26. di Prisco C., Stupazzini M. and Zambelli C. (2007) "Non-linear SEM numerical analyses of dry dense sand specimens under rapid and dynamic loading" *Int. J. Num. Anal. Meth. Geomech.*, 31, pp. 757-788
27. Cocchetti G., di Prisco C., Galli A. (2008) "Soil-pipeline interaction along active fault systems" *International Journal of offshore and Polar Engineering* Vol.18, No.3, pp.211-219
28. Besseghini F., Deana M., di Prisco C., Guasti G. (2008) "Modellazione meccanica di un sistema corticale attivo per il consolidamento di versanti" *GEAM. GEOINGEGNERIA AMBIENTALE E MINERARIA*, vol. 45, p. 37-45
29. Shirato M., Paolucci R., Kouno T., Nakatani S., Fukui J., Nova R., di Prisco C. (2008) "Numerical simulation of model tests of pier-shallow foundation systems subjected to earthquake loads using an elasto-uplift-plastic macro element" *Soils and foundations*, vol. 48, p. 693-711
30. Calvetti F., di Prisco C. (2009) "An Uncoupled Approach for the Design of Rockfall Protection Tunnel" *Structural engineering international*, vol. 19, pp. 342-347
31. Cocchetti G., di Prisco C., Galli A., Nova R. (2009) "Soil-pipe interaction along unstable slopes: an uncoupled/coupled 3D approach – Part 1: Theoretical formulation published" *Canadian geotechnical Journal*, 46(11) pp. 1289-1304
32. Cocchetti G., di Prisco C., Galli A. (2009) "Soil-pipeline interaction along unstable slopes: a coupled threedimensional approach. Part 2: Numerical analyses" *Canadian geotechnical Journal*, 46(11), pp. 1305-1321
33. di Prisco C., Vecchiotti M. (2010) "Design Charts for Evaluating Impact Forces on Dissipative Granular Soil Cushions" *Journal of geotechnical and geoenvironmental engineering*, vol. 136, pp. 1529-1541
34. Calvetti F., di Prisco C. (2010) "Discrete numerical investigation of the ratcheting phenomenon in granular materials" *Comptes rendus mecanique*, vol. 338, pp. 604-614
35. di Prisco C., Besseghini F., Pisanò F. (2010) "**Modelling of the mechanical interaction between anchored wire meshes and granular soils**" *Geomechanics and geoengineering*, vol. 5, pp. 137 -152
36. di Prisco C., Pisanò F. (2011) "Seismic response of rigid shallow footings" *European Journal Of Environmental And Civil Engineering*, 15, pp.185-221
37. Buscarnera G., Dattola G., di Prisco C. (2011) "Controllability, uniqueness and existence of the incremental response: A mathematical criterion for elastoplastic constitutive laws" *International Journal of Solids and Structures*, 48 (13), pp.1867-1878
38. Berzi D., di Prisco C.G., Vescovi D. (2011) "**Constitutive relations for steady, dense granular flows**" *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 84(3) art. no. 031301.
39. Galli A., di Prisco C. (2011) "**Mechanical behaviour of geo-encased sand columns: small scale experimental tests and numerical modeling**" *Geomechanics and Geoengineering*, 6, pp.251-263
40. di Prisco C., Pisanò F. (2011) "**An exercise on slope stability and perfect elastoplasticity**" *Geotechnique*, 61 (11), pp. 923-934
41. Buscarnera G., di Prisco C. (2012) "Discussing the definition of the second-order work for unsaturated soils" *International journal for numerical and analytical methods in geomechanics*, vol. 36, pp. 36-49
42. Calvetti F., Di Prisco C. (2012) "**Rockfall impacts on sheltering tunnels: real scale experiments**" *Geotechnique*, vol. 62, p. 865-876

43. di Prisco C., Pastor M., Pisanò F. (2012) "Shear wave propagation along infinite slopes: A theoretically based numerical study" *International journal for numerical and analytical methods in geomechanics*, vol. 36, p. 619-642
44. Zambelli C., di Prisco C., Lagioia R. (2012) "Strain accumulation in dense sands due to shear stress cycles" *Geomechanics and geoengineering*, vol. 7, p. 1-14
45. Calvetti F., di Prisco C. (2013) "A New Design Method for Rockfall Shelters Covered by Granular Layers" *Rockfall Engineering*, 6 March 2013, Pages 343-373
46. Buscarnera G., di Prisco C. (2013) "Soil stability and flow slides in unsaturated shallow slopes: Can saturation events trigger liquefaction processes?" *Geotechnique*, Volume 63, Issue 10, August 2013, Pages 801-817
47. Murianni A., di Prisco C., Federico A. (2013) "Numerical stability of non-local viscoplastic FEM analyses for the study of localisation processes" *Geomechanics and Geoengineering*, Volume 8, Issue 4, December 2013, Pages 215-228
48. Vescovi D., Di Prisco C., Berzi D. (2013) "From solid to granular gases: The steady state for granular materials". *International Journal for Numerical and Analytical Methods in Geomechanics*, Volume 37, Issue 17, 10 December 2013, Pages 2937-2951
49. F. Pisanò, C. di Prisco, R. Lancellotta (2013). "Soil-foundation modelling in laterally loaded historical towers", *Géotechnique*, 64(1), 1-15
50. di Prisco C., Morataro G.(2013) "A multi-mechanism constitutive model for plastic adaption under cyclic loading" *International Journal for Numerical and Analytical Methods in Geomechanics*, Volume 37, Issue 18, 25 December 2013, Pages 3071-3086
51. Dattola G., di Prisco C., Redaelli I., Utili S. (2014) "A distinct element method numerical investigation of compaction processes in highly porous cemented granular materials" *International Journal for Numerical and Analytical Methods in Geomechanics*, 2014
52. di Prisco C., Maugeri M. (2014) "Seismic Response of Shallow Footings: A Promising Application for the Macro-element Approach" *Geotechnical, Geological and Earthquake Engineering*, Volume 28, Pages 195-222
53. di Prisco, C., Mancinelli, L., Zanelotti, L., Pisanò, F. (2014) "Numerical stability analysis of submerged slopes subject to rapid sedimentation processes" *Continuum Mechanics and Thermodynamics*, 2014
54. Ciantia, M.O., Castellanza, R., di Prisco, C. (2014) "Experimental Study on the Water-Induced Weakening of Calcarenites" *Rock Mechanics and Rock Engineering*.
55. F. Tradigo, F. Pisanò, C. di Prisco (2014). "Numerical analysis of soil-structure interaction in disconnected piled raft foundations", *Computers and Geotechnics*, published online, DOI: 10.1016/j.compgeo.2014.08.014.
56. 4. Redaelli I, di Prisco C., Vescovi D. (2016). A visco-elasto-plastic model for granular materials under simple shear conditions. *INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL IN GEOMECHANICS*
57. Pisanò F, di Prisco C. (2016). A stability criterion for elasto-viscoplastic constitutive relationships. *INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS*, vol. 40, p. 141-156, ISSN: 0363-9061, doi: 10.1002/nag.2395 -
58. Gioffré, D., Mandaglio, M. C., di Prisco, C., Moraci, N. (2017). Evaluation of rapid landslide impact forces against sheltering structures. *RIVISTA ITALIANA DI GEOTECNICA*, vol. 51, p. 64-76, ISSN: 0557-1405, doi: 10.19199/2017.3.0557-1405.064 - Articolo in rivista
59. Calvetti F., di Prisco C., Vairaktaris E. (2017). DEM assessment of impact forces of dry granular masses on rigid barriers. *ACTA GEOTECNICA*.
60. Calvetti F., di Prisco C., Vairaktaris E. (2017). DEM assessment of impact forces of dry granular masses on rigid barriers. *ACTA GEOTECNICA*

61. Vescovi, D., Berzi, D., di Prisco, C. (2018). Fluid–solid transition in unsteady, homogeneous, granular shear flows. *Granular Matter* 20(2),27.
62. di Prisco, C., Flessati, L., Frigerio, G., Galli, A., Lunardi, P. (2018) Experimental investigation of the time-dependent response of unreinforced and reinforced tunnel faces in cohesive soils. *Acta Geotechnica*. 13(3), pp. 651-670.
63. di Prisco, C., Flessati, L., Frigerio, G., Lunardi, P. (2018). A numerical exercise for the definition under undrained conditions of the deep tunnel front characteristic curve. *Acta Geotechnica* 13(3), pp. 635-649.
64. Marinelli, F., Pisanó, F., di Prisco, C., Buscarnera, G. (2018). Model-based interpretation of undrained creep instability in loose sands. *Geotechnique*. 68(6), pp. 504-517
65. Ceccato, F., Redaelli, I., di Prisco, C., Simonini, P. (2018). Impact forces of granular flows on rigid structures: Comparison between discontinuous (DEM) and continuous (MPM) numerical approaches. *Computers and Geotechnics*. 103, pp. 201-217.
66. Calvetti, F., di Prisco, C., Redaelli, I., Sganzerla, A., Vairaktaris, E. (2019). Mechanical interpretation of dry granular masses impacting on rigid obstacles. *Acta Geotechnica* in press

#### INTERNATIONAL CONFERENCES

67. di Prisco C., Nova R. (1992) "Isotropic versus kinematic hardening in the mathematical modelling of soil behaviour", Proc. Third Int. Conf. on Computational Plasticity, Barcelona 6-10 April 1992, Vol.I, pp.25-32
68. di Prisco C., Calvetti F. (1993) "Fabric evolution of granular materials: a numerical approach", First Forum of Young European Researchers, 18-23/7 1993, pp.115-120
69. di Prisco C., Nova R. (1995) "Effect of induced anisotropy on the behaviour of sands and their modelling via strainhardening Plasticity", V Int. Symp. on Plasticity, July 17-21 1995, pp.515-518
70. Matiotti R., di Prisco C., Nova R. (1995) "Experimental observations on static liquefaction of loose sand", First Int. Conf. on Earthquake Geotechnical Engineering, Ishihara (ed.), Balkema Rotterdam, pp. 817-822
71. di Prisco C., Calvetti F. (1995) "Analytical and numerical instability of drained tests in loose saturated sands", First Int. Conf. on Earthquake Geotechnical Engineering, Ishihara (ed.) Balkema, Rotterdam, pp. 869-874
72. di Prisco C., Imposimato S., Nova R. (1999) "Sand specimen undrained mechanical response to instantaneous load increments", Proc. 7thInt. Symp. Plasticity '99 on Constitutive and Damage Modelling of Inelastic Deformation and Phase Transformation - Cancun 5-13 January 1999
73. di Prisco C., Aifantis E. (1999) "Plasticity and Gradient Theory: An approach for granular materials", Proc. 7thInt. Symp. Plasticity '99 on Constitutive and Damage Modelling of Inelastic Deformation and Phase Transformation - Cancun 5-13 January 1999, pp.553-557
74. di Prisco C., Imposimato S. (2000) "The influence of Time derivative terms on the mechanical behaviour of Loose sands" Proc. 3rd Euroconference on Constitutive Modelling of Granular Materials, Horton 29/6 – 3/7 1999, pp. 304-318 Balkema, Rotterdam
75. di Prisco C. Imposimato S. (2003) "Flow slides in dry loose sand deposits" Proc. Int. Conf. On Fast Slope Movements – Prediction and Prevention for Risk mitigation, Naples May 11-13 2003, Editor L. Picarelli Patron Ed. p. 157-162
76. Zambelli C., di Prisco C., Imposimato S. (2004) "A cyclic elasto-viscoplastic constitutive model: theoretical discussion and validation" In: International Conference on "Cyclic Behaviour of Soils and Liquefaction Phenomena" Bochum, Germany, 31 March - 02 April 2004
77. di Prisco C., Vecchiotti M. (2005) "Impact of boulder on granular strata: a rheological model" In: proceedings of the 2nd international conference on computational ballistics. Cordoba, Spain, may 18-20, 2005, p. 219-228
78. di Prisco C., Maggio F., Massidda L., Paolucci R., Stupazzini M., Zambelli C. (2006) "Spectral element method as an effective tool for solving large scale dynamic soil-structure interaction problems" In:

- Proceedings of the 8th US national conference on earthquake engineering 8NCEE. San Francisco, USA, april 18-22, 2006, p. 1-10
79. di Prisco C., Galli A. (2006) "Soil-pipe interaction under monotonic and cyclic loads: experimental and numerical modeling" In: Proceedings of the 1st euro-mediterranean conference in advances in geomaterials and structures AGS'. Hammamet, Tunisia, may 3-5, 2006, p. 755-760
  80. Bongiorno D., Cantarelli E., di Prisco C., Galli A. (2006) "Geo-reinforced sand columns: small scale experimental tests and theoretical modelling" In: Proceedings of the 8th international conference on geosynthetics. Yokohama, Japan, september 18-22, 2006, p. 1685-1688
  81. Galli A., di Prisco C. (2007) "Colonne in sabbia geo-rinforzate: prove sperimentali in piccola scala ed analisi numeriche" In: 20° convegno nazionale geosintetici SAIE 2007. Bologna, p. 37-45
  82. di Prisco C., D'onofrio A., Santucci de Magistris F., Zambelli C. (2007) "Cyclic mechanical behaviour of granular soils: experimental results and constitutive modeling" In: Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering. Thessaloniki, Greece, june 25-28, 2007, p. 1-10
  83. di Prisco C., Zambelli C. (2007) "Dependency of the mechanical behaviour of granular soils on loading frequency: experimental results and constitutive modeling" In: Proceedings of the Geotechnical Symposium Soil Stress-Strain Behavior: Measurement, Modeling and Ana. Rome, Italy, march 16-17, 2006, p. 1-16
  84. Calvetti F., di Prisco C., Secondi M. (2007) "Prove di caduta massi: sperimentazione in scala reale" In: IARG 2007. Salerno, p. 1-4
  85. di Prisco C., Paolucci R., Shirato M., Vecchiotti M., Yilmaz T. (2007) "Seismic behaviour of shallow foundations: large scale experiments vs. numerical modeling" In: Proceedings of the 1st USA-Italy Seismic Bridge Workshop. Pavia, Italy, april 18-20, 2007, p. 1-7
  86. Cocchetti G., di Prisco C., Galli A. (2007) "Soil-pipeline interaction along active fault systems" In: Proceedings of the 7th International Conference on Offshore and Polar Engineering ISOPE 2007 . Lisbon, Portugal, july 1-6, 2007, p. 1-8
  87. di Prisco C., Zambelli C. (2009) "A multi-mechanism visco-plastic constitutive model for simulating the phenomenon of ratcheting in granular soils" In: X International conference on computational plasticity COMPLAS X, CIMNE. Barcelona, Spain, p. 1-4
  88. di Prisco C., Galli A., Vecchiotti M. (2009) "Cyclic and dynamic mechanical response of shallow foundations on granular deposits" In: NATO Congress - Sofia. Sofia, 30/08/08 - 03/09/08, p. 139-150
  89. di Prisco G., Pisanò F. (2010) "1D dynamic non-linear numerical analysis of earth slopes: the role of soil ductility and time-sensitiveness" In: Fifth international conference on recent advances in geotechnical earthquake engineering and soil dy - San Diego (USA) 24- 29 may 2010, p. 1-11
  90. Buscarnera G., di Prisco C. (2010) "A redefinition of the second-order work for unsaturated soils" In: 9th HSTAM international congress on mechanics. Limassol, Cyprus, 12- 14 july 2010, p. 197-204
  91. Galli A., di Prisco C. (2011) "Metodi per il dimensionamento di interventi strutturali di difesa" In: Daniele Cazzuffi. Opere di prevenzione e di difesa dal rischio frane. p. 55-63, Patron Editore, Bologna
  92. Secondi M., Crosta G., Di Prisco C., Frigerio G., Frattini P., Agliardi F. (2011) "Landslide motion forecasting by a dynamic visco-plastic model" In: Second World Landslide Forum. Roma, 3/10/2011-7/10/2011, p. 1-6
  93. Galli A., di Prisco C. (2011) "Un modello concettuale per la progettazione di colonne granulari georinforzate a fondazione di rilevati artificiali" In: XXIV Convegno Nazionale di Geotecnica. p. 231-246, Edizioni AGI, ISBN: 9788897517023, Napoli, 22/06/2011 - 24/06/2011
  94. Galli A., Cocchetti G., di Prisco C. (2011) "A simplified numerical approach for studying the pile-landslide interaction in hard soils" In: 15th European Conference on Soil Mechanics and Geotechnical Engineering. Atene 11- 15 september 2011, p. 1347-1352
  95. Dattola G., Buscarnera G., Di Prisco C. (2012) "Stabilità e controllabilità di leggi costitutive elastoplastiche inelastoplastiche" In: IARG 2012. Padova, 02/07/2012-04/07/2012, p. 1-6
  96. di Prisco C., Mortara G. (2012) "Modellazione multi-superficie dell'adattamento plastico nei terreni" In: IARG 2012. Padova, 02/07/2012-04/07/2012, p. 1-6



97. Ciantia M. O., Castellanza R., di Prisco C., Hueckel T. (2012) "Experimental Methodology for Chemo-mechanical Weathering of Calcarenes" In: L. Laloui, A. Ferrari. Multiphysical testing of soils and shales. Lausanne, 3-5 september 2012, p. 1-6
98. Galli A., di Prisco C. (2012) "Un approccio negli spostamenti per la progettazione di pali a sostegno di movimenti franosi" In: IARG 2012. Padova, 02/07/2012-04/07/2012
99. Buscarnera G., di Prisco C. (2012) "Stability analysis of unsaturated deposits: effect of soil properties and hydromechanical coupling" In: 111th International Symposium on Landslides and 2nd North American Symposium on Landslides. Canada, p. 1745-1751

#### **Invited presentations to Conferences and International Advanced Schools**

- Co-organizer of of the 22th ALERT-Geomaterials Graduate School "Prevention and protection against hazards" (with Y. Malecot), Aussois, France October 2011
- Co-organizer of CISM Advanced Course "Mechanical Behaviour of Soils under Environmentally Induced Cyclic Loads" (with D. M. Wood), Udine, Italy, June 2009
- Lecturer, 1th ALERT Olek Zienkiewicz Doctoral School "Computational Geomechanics" (with M. Pastor). Madrid, Spain, June 2009
- Lecturer, NATO Advanced Research Workshop "Cyclic and dynamic mechanical behaviour of shallow foundations on granular deposits", Borovets, Bulgaria, from 30th of August to 3rd of September 2008
- Panelist at Seismic Engineering Conf. MERCEA08: "Dynamic Mechanical Response of Inclined Dry Granular Sand Strata", Reggio Calabria, Italy, July 2008.
- Panelist at XXIII Convegno Nazionale di Geotecnica, Previsione e Controllo del Comportamento delle Opere: "Criteri di scelta nella modellazione costitutiva dei terreni", Padova-Abano Terme, Italy, May 2007.
- Co-organizer of the 15th ALERT-Geomaterials Graduate School "Geodynamics and Cyclic Modelling" (with L. Daudeville), Aussois, France, October 2003