

ASSOC. PROF. ENG. ANGELO AMOROSI

Personal Details:

Date of Birth: 29 July 1965
Nationality: Italian
Address: Sapienza University of Rome
Department of Structural and Geotechnical Engineering
Via Eudossiana 18 – 00184 - Roma (Italy)

Education:

1992 Laurea in Ingegneria Civile Idraulica/Geotecnica, University of Rome “*La Sapienza*”
(5 years degree in Civil engineering, approximately equivalent to a Master Degree)
1996 Dottorato di Ricerca in Ingegneria Geotecnica, University of Rome “*La Sapienza*”
(*Doctoral Degree in Geotechnical Engineering*)

Academic carrier:

2018 - Winner of the national competition for the qualification as Full Professor of Geotechnical Engineering (ASN 2016)
2015 - Associate Professor of Geotechnical Engineering, Sapienza University of Rome
2014 - Winner of the national competition for the qualification as Full Professor of Geotechnical Engineering (ASN 2012)
2003 - 2015 Associate Professor of Geotechnical Engineering, Technical University of Bari, Italy.
2003 - 2004 Visiting Academic, Department of Engineering Science, University of Oxford, U.K. (5 months).
1999 - 2003 Lecturer of Geotechnical Engineering, Technical University of Bari, Italy.
1996 - 1999 Post-doc research fellow, Department of Structural and Geotechnical Engineering, University of Rome “*La Sapienza*”.

Teaching Activities:

2015 - Stabilità dei Pendii (*Slope stability*), Laurea Magistrale in Ingegneria Civile (+2 years degree in Civil Engineering), Sapienza University of Rome.
Indagini e Modelli Geotecnici (*Geotechnical Investigations and Modelling*), Laurea in Ingegneria per l’Ambiente e il Territorio (3 years degree in Environmental Engineering), Sapienza University of Rome.
Fondazioni (*Foundation Engineering*), Laurea Magistrale in Gestione del Progetto e della Costruzione dei Sistemi Edilizi (+2 years degree in Project and Construction Management of Building Systems), Sapienza University of Rome.
2003 - 2015 Fondazioni (*Foundation Engineering*) and Dinamica delle Terre (*Soil Dynamics*), Laurea Specialistica/Magistrale in Ingegneria Civile (+2 years degree in Civil Engineering), Politecnico di Bari.

- Geotecnica (*Geotechnics*), Laurea in Ingegneria Edile-Architettura (5 years degree in *Architectural Engineering*), Politecnico di Bari.
- 2006 - 2010 Meccanica delle Terre (*Soil Mechanics*), Laurea Specialistica/Magistrale in Ingegneria Civile (+2 years degree in *Civil Engineering*), Politecnico di Bari.
- 1999 - 2010 Geotecnica (*Geotechnics*), Laurea in Architettura (5 years degree in *Architecture*), Università di Roma 3.
- 1999 - 2003 Stabilità dei Pendii (*Slope Stability*), Laurea quinquennale in Ingegneria Civile (5 years degree in *Civil Engineering*), Politecnico di Bari.
- 2014 PhD Lectures on: *Advanced constitutive modelling of fine-grained soils*, within the Summer school organised by the GNIG (National Group of Academics involved in Geotechnical Engineering), Cagliari, June 2014.
- 2018 - 2019 PhD Lectures on: *The interaction between underground constructions and surface structures, Seismic site response analyses*, within the PhD Course on Structural behaviour of historical and monumental buildings, Sapienza University of Rome.

Research interests:

- 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;
- Constitutive modelling of weak rocks and saturated soils in the frame of multi-surface hardening plasticity; application of thermomechanical principles to the modelling of elastic and elasto-plastic coupled behaviour of saturated soils;
- Constitutive modelling of masonry and its application to the modelling of ancient structures;
- Computational plasticity, with reference to implicit/explicit integration schemes for complex constitutive models;
- Seismic site response analysis by numerical approaches: applications to single sites and urban areas;
- Finite Element analyses of seismic soil-structure interaction problems: 2D and 3D applications to surface buildings, earth dams and underground infrastructures;
- Finite Element analyses of the interaction between tunnels-soils-surface structures: applications to the Milan and Rome underground lines construction accounting for the presence of surface masonry or reinforced concrete structures;
- Nuclear waste disposal-related geotechnical problems: detailed geotechnical site characterisation; seismic interaction between foundation soils, shallow deposits and soil covers.

Invited seminars; general, keynote and panel lectures:

- 1995 ‘*The Mechanical Behaviour of Vallericca Clay*’, City University of London, U.K.
- 1996 ‘*The Mechanical Behaviour of a Stiff Natural Clay*’, Institut de Mécanique de Grenoble (3S), France.
- 1998 ‘*Some remarks on the mechanical behaviour of a stiff natural clay*’, Oxford University Civil Engineering Colloquia, U.K.
- 1999 ‘*A constitutive model for structured soils*’, Technical University of Turin, Italy.
‘*A thermomechanical approach to the small strain stiffness of soils*’, Technical University of Turin, Italy.
- 2001 ‘*Analysis of a homogeneous earth dam subjected to seismic actions*’, University of Rome ‘La Sapienza’.

- 2002 ‘*The mechanical behaviour of structured clays: from experimental observations to constitutive modelling*’, National Technical University of Athens, Greece.
‘*Small strain stiffness of soils: a hyperelastic approach*’, National Technical University of Athens, Greece.
- 2004 ‘*A hyperelastic approach to the small strain stiffness of soils*’, Oxford University Civil Engineering Colloquia, U.K.
‘*Experimental observations and constitutive modelling of structured clays*’, University of Birmingham, U.K.
‘*Experimental observations and constitutive modelling of structured clays*’, Imperial College of Science and Medicine, London, U.K.
- 2005 ‘*From constitutive modelling to FE analyses in geotechnical engineering*’, University of Naples Federico II, Italy.
- 2008 ‘*Static and dynamic behaviour of clayey soils: from experiments to numerical simulations*’, University of Roma 3, Italy.
- 2009 ‘*Delayed failure of quarry slopes in a stiff clay deposit: the case of the Lucera landslide*’, ETH Zurich, Geomechanics Colloquia.
- 2011 ‘*Numerical analyses of HSSR: some remarks on the calibration of parameters and internal variables*’, Invited Panel, XV European Conference on Soil Mechanics and Geotechnical Engineering, Athens, Greece.
- 2012 ‘*Fully Coupled Dynamic Analysis of an Earth Dam*’, Purdue University, U.S.A.
‘*The seismic behaviour of tunnels: a numerical approach*’, Texas A&M University, U.S.A.
‘*Elasticity in soil mechanics: from experimental observations to mathematical modelling*’, Cornell University, U.S.A.
- 2014 ‘*From single element experiments to the numerical analysis of BVPs: a long way path through modern geomechanics*’, Bochum Ruhr University, Germany.
- 2015 ‘*Il comportamento meccanico dei terreni argillosi: dalla sperimentazione in laboratorio all’analisi di problemi al finito*’, Sapienza University of Rome, Italy.
- 2016 ‘*Modelling tunnelling-induced deformation of surface structures*’, 3xV – International Workshop in Naples, Italy.
- 2017 ‘*Prospettive nell’analisi del comportamento delle dighe di terra*’, (Perspectives in the analysis of earth dams) Invited General Lecture – XXVI Italian Geotechnical Conference.
- 2018 ‘*Elastic anisotropy and elastoplastic coupling of soils: from micro evidences to constitutive modelling at the macroscale*’, Invited Lecture – ALERT Olek Zienkiewicz Winter School 2018.
- 2019 ‘*The contribution of constitutive modelling to sustainable geotechnical engineering: examples and open issues*’, Invited Keynote Lecture – VII CNRIG, National Conference of the Academics working in Geotechnical Engineering.
- 2019 ‘*Ut tensio sic vis? An experimental and theoretical investigation into the elastic behaviour of soils*’, ETH Zurich, IGT-Kolloquium.
- 2020 ‘*The elastic behaviour of granular materials: complex features and their constitutive modelling at the macroscale*’, Invited Keynote Lecture – IAS Workshop on Emerging Scales in Granular Media, Honk Kong University of Science and Technology.

Supervision of PhD students:

- 2001 - 2004 Candidate: Gaetano Elia. Thesis title: “Analisi FEM di problemi al contorno in condizioni statiche dinamiche con un modello costitutivo avanzato” (*FE analyses of static and dynamic boundary value problems adopting an advanced constitutive model*).

- 2002 - 2005 Candidate: Vincenzo Germano. Thesis title: “Integrazione implicita di un modello costitutivo per terreni naturali” (*Implicit integration of a constitutive model for natural soils*).
- 2003 - 2006 Candidate: Giuseppina Mitaritonna. Thesis title: “An experimental investigation on the very small strain stiffness anisotropy of fine-grained soil”.
- 2009 - 2012 Candidate: Giovanni Postiglione. Thesis title: “The use of a constitutive model for structured soils to the solution of static boundary value problems”.
- 2012 - 2015 Candidate: Annamaria Di Lernia. Thesis title: “Three-dimensional FE analyses of earthquake engineering boundary value problem”.
- 2012 - 2015 Candidate: Valentina Fagnoli. Thesis title: “Soil-structure interaction during tunnelling in urban area: observations and 3D numerical modelling”. (Co-tutor)
- 2014 - 2017 Candidate: Gaetano Falcone. Thesis title: “Seismic microzonation by means of finite elements approaches”.
- 2015 – 2018 Candidate: Fabio Rollo. Thesis title: “Elastic anisotropy and elastoplastic coupling of soils: a thermodynamic approach”.

Research Funding:

- 2005 - 2007 Progetto di Ricerca di Rilevante Interesse Nazionale (PRIN), finanziato dal MIUR. Responsabile U.O. Politecnico di Bari, titolo: “Analisi numerica del comportamento di dighe in terra soggette ad azioni sismiche” (39500 euro) (*National Research Project funded by the Italian Ministry of University. Title: Numerical analyses of earth dams subjected to seismic actions*)
- 2005 - 2008 Progetto di Ricerca Rete dei Laboratori Universitari di Ingegneria Sismica (ReLUIIS), finanziato dal Dipartimento per la Protezione Civile. Responsabile U.O. Politecnico di Bari, Linea 6, Stabilità dei Pendii in zona sismica (36329 euro). (*Research Project of the Network of University Departments of Seismic Engineering funded by the National Civil Protection Department. Theme: Slope stability in seismic areas*)
- 2008 – 2010 Progetto di Ricerca di Rilevante Interesse Nazionale (PRIN), finanziato dal MIUR, titolo: “Comportamento sismico di pendii, scavi e gallerie” (20000 euro) **I**. (*National Research Project funded by the Italian Ministry of University. Title: Seismic behaviour of slopes, excavations and tunnels*)
- 2009 - 2012 Progetto di Ricerca Rete dei Laboratori Universitari di Ingegneria Sismica (ReLUIIS II), finanziato dal Dipartimento per la Protezione Civile. Responsabile U.O. Politecnico di Bari, Comportamento longitudinale di strutture tubolari interrate in zona sismica (25000 euro). (*Research Project of the Network of University Departments of Seismic Engineering funded by the National Civil Protection Department. Theme: Longitudinal seismic response of tunnels in seismic areas*).
- 2012 - 2014 Competitive Research Project funded by the SOGIN SpA (*Italian public Agency for the radioactive waste disposal programme*)/**P.I.** of the Specific research programme on shallow radioactive deposits for south Italy (195000 euro).
- 2014 - 2015 Competitive Research Project funded by the SOGIN SpA (*Italian public Agency for the radioactive waste disposal programme*)/**P.I.** of the Detailed research programme on shallow radioactive deposits for south Italy (150000 euro).
- 2014 - 2016 Progetto di Ricerca Rete dei Laboratori Universitari di Ingegneria Sismica (ReLUIIS II), finanziato dal Dipartimento per la Protezione Civile. Responsabile U.O. Politecnico di Bari, “Gallerie in area urbana” (25000 euro). (*Research Project of the Network of University Departments of Seismic Engineering funded by the National Civil Protection Department. Theme: Tunnels in Seismic urban areas*).
- 2016 Finanziamento Professori Visitatori Sapienza. *Winner of the competition for the special Sapienza Grant to invite a foreigner Professor (Yannis Dafalias) for 3 months (5000 euro)*.

- 2016-2017 Progetto di Ricerca Rete dei Laboratori Universitari di Ingegneria Sismica (ReLUIIS III), finanziato dal Dipartimento per la Protezione Civile. Responsabile U.O. Sapienza Roma, “Comportamento sismico delle gallerie” (7900 euro). (*Research Project of the Network of University Departments of Seismic Engineering funded by the National Civil Protection Department. Theme: Seismic behaviour of tunnels*).
- 2018 Progetto di Ricerca di Medie Dimensioni, finanziato da Sapienza Università di Roma, **P.I.** Titolo: “*Soil anisotropy: constitutive modelling and potential impact on civil engineering structures*” (15000 euro).

Institutional activities at Sapienza University and at Technical University of Bari:

- 2014- 15 Membro della Commissione di Ateneo per la Revisione dello Statuto, nominato dal Senato Accademico del Politecnico di Bari (*Appointed member of the Commission for the Revision of the Statute*).
- 2016 - Membro nominato della Commissione Gestione e Autovalutazione della Qualità del Consiglio d’Area in Ingegneria Civile - Sapienza (*Appointed member of the Quality Management and Self-assessment Commission of the Council for graduate and undergraduate programmes in Civil Engineering*).
- 2017 - Membro nominato della Commissione Didattica del Dipartimento di Ingegneria Strutturale e Geotecnica - Sapienza (*Appointed member of the Teaching Commission of the Department of Structural and Geotechnical Engineering*).
- 2017 - Membro nominato della Commissione Ricerca del Dipartimento di Ingegneria Strutturale e Geotecnica - Sapienza (*Appointed member of the Research Commission of the Department of Structural and Geotechnical Engineering*).
- 2016 - 17 Membro rappresentante per il Dipartimento di Ingegneria Strutturale e Geotecnica del Comitato organizzatore dell’evento annuale Ingegneria R&D, Facoltà di Ingegneria Civile e Industriale - Sapienza (*Appointed member by the Department of Structural and Geotechnical Engineering of the Organizing Committee of the annual event “Ingegneria R&D”, Civil and Industrial Engineering Faculty*).

Others:

- 2000 - 2015 Member of the Board of the PhD school in Civil Engineering at the Politecnico di Bari.
- 2003 - 2009 Elected Member of the Board of the Associazione Geotecnica Italiana (*Italian Geotechnical Association*).
- 2006 Member of the Organising Committee of the V Convegno Nazionale dei Ricercatori di Ingegneria Geotecnica (*5th National Conference of the Academics involved in Geotechnical Engineering*), Bari.
- 2009 Organiser (with J.T. Jenkins and L. Laragione) of the International Workshop “*Deformation and Failure of Geomaterials*”, co-funded by National Science Foundation (U.S.) and Apulia Region.
- 2009 - Member of the Editorial Board of the Italian Geotechnical Journal.
- 2010 - 2013 Member of the Editorial Board of Geotéchnique (Institution of Civil Engineers, London, U.K.).
- 2010 - Member of the International Society of Soil Mechanics and Geotechnical Engineering Technical Committee TC210 “*Behaviour of Dams*”.
- 2012 - 2014 Elected Member of the Board of the Gruppo Nazionale di Coordinamento degli Studi di Ingegneria Geotecnica (*National Group of Academics involved in Geotechnical Engineering*).
- 2012 Honorary Editor of the two special issues of the *Italian Geotechnical Journal* dedicated to the *Geotechnical aspects of the 6.IV.2009 Abruzzo earthquake*.
- 2016 - Member of the Board of the PhD school in Structural and Geotechnical Engineering at Sapienza University of Rome.

- 2017 Organiser of the International Workshop “*Sapienza University - Ruhr- Universität Bochum Geotechnical Workshop*” at Sapienza University of Rome.
- 2018 Member of the Scientific Committee of the *China – Europe Conference on Geotechnical Engineering*, Vienna.
- 2019 Member of the Scientific Committee of the 7th *ICEGE 2019 - International Conference on Earthquake Geotechnical Engineering*.
- 2019 Member of the Scientific Committee of the *2019-EMI (Engineering Mechanics Institute) Conference*– California Institute of Technology.
- 2019 Co-organiser of the Mini-Symposium “*Theoretical, Numerical and Physical Modelling in Geomechanics*” - AIMETA 2019 (Italian Association of Theoretical and Applied Mechanics).
- 2019 - Member of the Editorial Board of *Acta Geotechnica* (Springer Berlin Heidelberg).
- 2000 - Referee for the following International Journals: *Geotéchnique*, *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*, *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, *Computers and Geotechnics*, *Soil Dynamics and Earthquake Engineering*, *Computers and Structures*, *International Journal of Solids and Structures*, *Meccanica*, *Engineering Structures*, *Geomechanics & Engineering*, *Nuclear Engineering and Technology*, *Tunnelling and Underground Space Technology*.
- Reviewer of research proposals for: *Technology Foundation STW (the Netherlands)*; *The Leverhulme Trust (UK)*; *Engineering and Physical Sciences Research Council (UK)*; *Fondecyt Fondo Nacional de Desarrollo Científico y Tecnológico (Chile)*.
- Recent External examiner of PhD candidates: *G. Seidalinov (University of British Columbia)*; *M. Morigi (Tor Vergata University of Rome)*; *F. Aloï, A. Chiaradonna, V. Oliviero, A. Reder (University of Naples Federico II)*.

Professional experience:

1992 - Chartered Engineer

Bibliometric indices December 2019:

Source Scopus:

Documents: 61; H-index: 17; Total Number of citations: 1051; Average number of citations: 17.229

Total number of Scopus indexed scientific Journal contributions: 35.

Source ISI Web of Science:

Total Impact Factor: 62.356; Average Impact Factor: 1.890

Selected Publications

15 Journal papers (2009-2019 including 11 published in the period 2014-2019)

- [1] Houlsby, G.T., Amorosi, A., Rollo, F., Non-linear anisotropic hyperelasticity for granular materials (2019). *Computers and Geotechnics*, 115, art. no. 103167.
IF: 3.345.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069565418&doi=10.1016%2Fj.compgeo.2019.103167&partnerID=40&md5=9002ce1c77069ab0449c93c8f0ebe971>
DOI: 10.1016/j.compgeo.2019.103167
- [2] Amorosi, A., Rollo, F., Houlsby, G.T., A nonlinear anisotropic hyperelastic formulation for granular materials: comparison with existing models and validation (2019). *Acta Geotechnica*.
Cited 1 time. IF: 3.247.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068746663&doi=10.1007%2Fs11440-019-00827-5&partnerID=40&md5=6ef7627673a3752acb7faaa13f9e4c02>
DOI: 10.1007/s11440-019-00827-5
- [3] Boldini, D., Palmieri, F., Amorosi, A., A new versatile constitutive law for modelling the monotonic response of soft rocks and structured fine-grained soils (2019). *International Journal for Numerical and Analytical Methods in Geomechanics*, 43 (15), pp. 2383-2406.
Cited 1 time. IF: 2.481.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068113665&doi=10.1002%2Fnag.2975&partnerID=40&md5=5fd287e5b1b3b96bdf811e141d1f8672>
DOI: 10.1002/nag.2975
- [4] Falcone, G., Boldini, D., Amorosi, A., Site response analysis of an urban area: A multi-dimensional and non-linear approach (2018). *Soil Dynamics and Earthquake Engineering*, 109, pp. 33-45.
Cited 2 times. IF: 2.578.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043250491&doi=10.1016%2Fj.soildyn.2018.02.026&partnerID=40&md5=3b7f9e6e6189090236ed88df829c2ae8>
DOI: 10.1016/j.soildyn.2018.02.026
- [5] Amorosi, A., Boldini, D., di Lernia, A. Dynamic soil-structure interaction: A three-dimensional numerical approach and its application to the Lotung case study (2017). *Computers and Geotechnics*, 90, pp. 34-54.
Cited 13 times. IF: 3.138.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019745106&doi=10.1016%2Fj.compgeo.2017.05.016&partnerID=40&md5=564b21c4d2cac6a86cfbf3e0bcb30155>
DOI: 10.1016/j.compgeo.2017.05.016
- [6] Amorosi, A., Aversa, S., Boldini, D., Laera, A., Nicotera, V.M., Application of a new constitutive model to the analysis of plate load tests in a pyroclastic rock (2015). *International Journal of Rock Mechanics and Mining Sciences*, 78, pp. 271-282.
Cited 4 times. IF: 2.010.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938779561&doi=10.1016%2Fj.ijrmms.2015.07.003&partnerID=40&md5=6c80de9a7692da22b6f93c54eb16f874>
DOI: 10.1016/j.ijrmms.2015.07.003

- [7] Fargnoli, V., Gragnano, C.G., Boldini, D., Amorosi, A., 3D numerical modelling of soil–structure interaction during EPB tunnelling (2015). *Géotechnique*, 65 (1), pp. 23-37.
Cited 27 times. IF: 2.000
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924308302&doi=10.1680%2fgeot.14.P.091&partnerID=40&md5=f80507151f1fd4734478879770fa3cb9>
DOI: 10.1680/geot.14.P.091
- [8] Mitaritonna, G., Amorosi, A., Cotecchia, F., Experimental investigation of the evolution of elastic stiffness anisotropy in a clayey soil (2014). *Géotechnique*, 64 (6), pp. 463-475.
Cited 10 times. IF: 1.868.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84928540272&doi=10.1680%2fgeot.13.P.191&partnerID=40&md5=aff556176fb1e51e8bf27db63f3b5ceb>
DOI: 10.1680/geot.13.P.191
- [9] Amorosi, A., Boldini, D., De Felice, G., Malena, M., Sebastianelli, M., Tunnelling-induced deformation and damage on historical masonry structures (2014). *Géotechnique*, 64 (2), pp. 118-130.
Cited 38 times. IF: 1.868.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84901771715&doi=10.1680%2fgeot.13.P.032&partnerID=40&md5=0453193234b314a76e060936e30fa97d>
DOI: 10.1680/geot.13.P.032
- [10] Amorosi, A., Boldini, D., Falcone, G., Numerical prediction of tunnel performance during centrifuge dynamic tests (2014). *Acta Geotechnica*, 9 (4), pp. 581-596.
Cited 24 times. IF: 2.493.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84905049266&doi=10.1007%2fs11440-013-0295-7&partnerID=40&md5=db2c788d1a21bf4de320f8a9c63f2b11>
DOI: 10.1007/s11440-013-0295-7
- [11] Fargnoli, V., Boldini, D., Amorosi, A., TBM tunnelling-induced settlements in coarse-grained soils: The case of the new Milan underground line 5 (2013). *Tunnelling and Underground Space Technology*, 38, pp. 336-347.
Cited 42 times. IF: 1.589.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84882638130&doi=10.1016%2fj.tust.2013.07.015&partnerID=40&md5=e380603c0a72a6a2b8ac96ada0db065d>
DOI: 10.1016/j.tust.2013.07.015
- [12] Elia, G., Amorosi, A., Chan, A.H.C., Kavvadas, M.J., Fully coupled dynamic analysis of an Earth dam (2011). *Géotechnique*, 61 (7), pp. 549-563.
Cited 29 times. IF: 1.461.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79959311993&doi=10.1680%2fgeot.8.P.028&partnerID=40&md5=b7617ffca72263c3ab52bd67e149714>
DOI: 10.1680/geot.8.P.028
- [13] de Felice, G., Amorosi, A., Malena, M., Elasto-plastic analysis of block structures through a homogenization method (2010). *International Journal for Numerical and Analytical Methods in Geomechanics*, 34 (3), pp. 221-247.
Cited 19 times. IF: 1.167.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-77953246186&doi=10.1002%2fnag.799&partnerID=40&md5=4c7d8d45b138ae27425ff0cb9b434ea6>
DOI: 10.1002/nag.799

- [14] Amorosi, A., Boldini, D., Elia, G., Parametric study on seismic ground response by finite element modelling (2010). *Computers and Geotechnics*, 37 (4), pp. 515-528.
Cited 32 times. IF: 0.965.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-77952543709&doi=10.1016%2fj.compgeo.2010.02.005&partnerID=40&md5=f55b2ff7c694d49bfb91daee0e8d396a>
DOI: 10.1016/j.compgeo.2010.02.005
- [15] Amorosi, A., Boldini, D., Numerical modelling of the transverse dynamic behaviour of circular tunnels in clayey soils (2009). *Soil Dynamics and Earthquake Engineering*, 29 (6), pp. 1059-1072.
Cited 97 times. IF: 1.340.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-61749084915&doi=10.1016%2fj.soildyn.2008.12.004&partnerID=40&md5=a851a2f429726944090b012da35a3ffd>
DOI: 10.1016/j.soildyn.2008.12.004

Complete list of publications (extracted from Scopus)

Journal papers:

- [1] Dafalias, Y.F., Taiebat, M., Rollo, F., Amorosi, Convergence of rotational hardening with bounds in clay plasticity (2019 online). *Géotechnique Letters* 2020, 10:1, pp. 1-4.
<https://www.icevirtuallibrary.com/doi/10.1680/jgele.19.00012>
DOI: 10.1680/jgele.19.00012
- [2] Lasciarrea, W.G., Amorosi, A., Boldini, D., de Felice, G., Malena, M., Jointed Masonry Model: A constitutive law for 3D soil-structure interaction analysis (2019). *Engineering Structures*, 201, art. no. 109803.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074177103&doi=10.1016%2Fj.engstruct.2019.109803&partnerID=40&md5=460e362e527ff1f8b5986fcaffc654d7>
DOI: 10.1016/j.engstruct.2019.109803
- [3] Houlsby, G.T., Amorosi, A., Rollo, F., Non-linear anisotropic hyperelasticity for granular materials (2019). *Computers and Geotechnics*, 115, art. no. 103167.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069565418&doi=10.1016%2Fj.compgeo.2019.103167&partnerID=40&md5=9002ce1c77069ab0449c93c8f0ebe971>
DOI: 10.1016/j.compgeo.2019.103167
- [4] Boldini, D., Palmieri, F., Amorosi, A., A new versatile constitutive law for modelling the monotonic response of soft rocks and structured fine-grained soils (2019). *International Journal for Numerical and Analytical Methods in Geomechanics*, 43 (15), pp. 2383-2406.
Cited 1 time.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068113665&doi=10.1002%2Fnag.2975&partnerID=40&md5=5fd287e5b1b3b96bdf811e141d1f8672>
DOI: 10.1002/nag.2975
- [5] Amorosi, A., Rollo, F., Houlsby, G.T., A nonlinear anisotropic hyperelastic formulation for granular materials: comparison with existing models and validation (2019). *Acta Geotechnica*. Cited 1 time.
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