

Name: STEFANO
Surname: INVERNIZZI
Email: stefano.invernizzi@polito.it
National insurance number: NVRSFN69P27F952T
Gender: Male
Date of birth: 1969-09-27
Nazionalità: ITALIAN
Document number: AN 6134141
Passport number:
Address
Province: TO
City: TORINO
Address: corso Duca degli Abruzzi
Number: 24
CAP: 10129
Telephone: +39 011 564 4860
Fax:
Mobile: +39 011 564 4899
Organization type: Politecnico di Torino
Role: Researcher
Department name: (Politecnico di Torino) DISTR
Education: Civil Engineering Degree, Ph.D. in Structural Engineering
Work experience in the last 5 years: Associate Professor at the Politecnico di Torino, Faculty of Architecture 2 (since 1999).
Fellow Researcher at the Delft Technical University (The Netherlands)

Teaching activities at Politecnico di Torino

Course of "Statics" (6 credits ARCHITECTURE AND DESIGN)

Course of "Architectural Construction Studio I" (2 credits HISTORY AND PRESERVATION OF ARCHITECTURAL AND ENVIRONMENTAL HERITAGE)

Course of "Decay Analysis Methodologies" (2 credits ARCHITECTURE: REHABILITATION AND REVALUATION)

Course of "Theory of Structures" (CIVIL ENGINEERING)

Courses, Seminars and Special Conferences in Italy and abroad

Chairman of a Session at IFC11 (Turin Italy March 2005); SAHC5 (New Delhi India November 2006); FraMCoS-6 (Catania Italy June 2007); SAHC6 (Bath United Kingdom July 2008)

Member of the Local Organizing Committee of the International Conference on Fracture (ICF XI Turin Italy March 20-25, 2005)

Member of the Local Organizing Committee of the International Conference on Fracture of Concrete and Concrete Structures (FraMCoS-6 Catania Italy Jun 17-22, 2007)

Lessons at the UrbanWood European Master (Politecnico di Torino) on numerical simulation of timber (2007 and 2008).

Awards

"Prize Optime" awarded from the Unione Industriale di Torino to the best Master's degree, including membership to the "Optime Group" (1998)

Senior Research Fellowship, awarded by the Delft Technical University (The Netherlands) (2002-2007)

Grant for the Mobility of Young Researchers. Granted from the Politecnico di Torino to its

the best young researchers (2006-2007)

Best Paper Award at "10th Conference on Structural Faults + Repair" (ASCE) Edimburg (UK) June 2008.

Technical, organizational and social skills: Chartered Engineer specialized in Structural and Continuum Mechanics, Numerical Computations, Cultural Heritage. Over 60 technical and scientific papers published on the international technical journals of the sector and presented at several International Congresses.

Member of the executive board of the Department (Prolitecnico di Torino)

Member of the Technical Committee of the Central Library of the Politecnico di Torino
Responsible for the ERASMUS Program of the Course of Architecture at the Faculty of Architecture 2 (Politecnico di Torino)

Member of the commission for the admission at the Master Degree Courses of the Faculty of Architecture 2 (Politecnico di Torino)

Loans managed for the last 5 years: Local Unit Responsible of the project IMPIEGO DI NANOTECNOLOGIE NEI BENI CULTURALI PER L'EFFICIENZA DI SISTEMI MANUTENTIVI DEL COSTRUITO IN LEGNO: TECNOLOGIE INNOVATIVE DI RECUPERO (PRIN 2005, funded by MIUR)

Publications for the last 5 years, licences or other products of research:

International Journals and Books

[1] CARPINTERI A, INVERNIZZI S., LACIDOGNA G. (2009). "Closure to 'Structural Monitoring and Integrity Assessment of Medieval Towers' by Alberto Carpinteri and Giuseppe Lacidogna". JOURNAL OF STRUCTURAL ENGINEERING. vol. 135(2), pp. 207-208 ISSN: 0970-0137.

[2] ALBERTO CARPINTERI, G. LACIDOGNA, INVERNIZZI S., A. MANUELLO, L. BINDA. (2008). Stability of the vertical bearing structures of the Syracuse Cathedral: experimental and numerical evaluation. MATERIALS AND STRUCTURES. ISSN: 1359-5997. doi:10.1617/s11527-008-9429-z (Published online, in print).

[3] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA. (2007). Structural assessment of a XVIIth century masonry vault with AE and numerical techniques. INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE. vol. 1:2, pp. 214-226 ISSN: 1558-3058. doi:10.1080/15583050701287649.

[4] J.G. ROTS, B. BELLETTI, INVERNIZZI S. (2007). Robust modeling of RC structures with an "event-by-event" strategy. ENGINEERING FRACTURE MECHANICS. vol. 75(3-4), pp. 590-614 ISSN: 0013-7944. doi:10.1016/j.engfracmech.2007.03.027.

[5] CARPINTERI A, INVERNIZZI S., LACIDOGNA G. (2006). Numerical assessment of three medieval masonry towers subjected to different loading conditions. MASONRY INTERNATIONAL. vol. 19(2), pp. 65-76 ISSN: 0950-2289.

[6] BORRI-BRUNETTO M, CARPINTERI A, INVERNIZZI S., PAGGI M. (2006). Micro-slip of rough surfaces under cyclic tangential loading. In: PFEIFFER, F., WRIGGERS, P. Lecture Notes in Applied and Computational Mechanics: Multifield Problems in Solid and Fluid Mechanics. (vol. 27, pp. 333-340). ISBN: 978-3-540-31760-9. doi:10.1007/3-540-31761-9_37BERLIN / HEIDELBERG: Springer.

[7] ROTS J.G, INVERNIZZI S., BELLETTI B. (2006). Saw-tooth softening/stiffening - a stable computational procedure for RC structures. COMPUTERS AND CONCRETE. vol. 3(4), pp. 213-233 ISSN: 1598-8198.

[8] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA. (2005). In situ damage assessment and nonlinear modelling of an historical masonry tower. ENGINEERING STRUCTURES. vol. 27(3), pp. 387-395 ISSN: 0141-0296. doi:10.1016/j.engstruct.2004.11.001.

[9] CARPINTERI A, INVERNIZZI S. (2005). Numerical analysis of the cutting interaction between indenters acting on disordered materials. INTERNATIONAL JOURNAL OF FRACTURE. vol. 131, pp. 143-154 ISSN: 0376-9429. doi:10.1007/s10704-004-3635-7.

[10] BORRI-BRUNETTO M., CHIAIA B., INVERNIZZI S. (2004). Lacunarity of contact domains and multifractality of pressures in rough rock interfaces. THE ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING. SECTION B, ENGINEERING. vol. 29(2C), pp. 135-146 ISSN: 1319-8025.

[11] CARPINTERI AL, CHIAIA B.M, INVERNIZZI S. (2004). Numerical Analysis of indentation fracture in quasi-brittle materials. ENGINEERING FRACTURE MECHANICS. vol. 71, pp. 567-577 ISSN: 0013-7944. doi:10.1016/S0013-7944(03)00037-7.

[12] ROTS J.G, INVERNIZZI S. (2004). Regularized sequentially linear saw-tooth softening model. INTERNATIONAL JOURNAL FOR NUMERICAL AND ANALYTICAL METHODS IN GEOMECHANICS. vol. 28, pp. 821-856 ISSN: 0363-9061. doi:10.1002/nag.371.

International Peer Reviewed Conference Proceedings

[13] A. ANZANI, L. BINDA, A. CARPINTERI, G. LACIDOGNA, INVERNIZZI S. (2008). Monitoring structural integrity of historic towers: a mixed approach for their damage evaluation. 12th International Congress on Structural Faults and Repair. Edimburg (UK). 10-12 June 2008. (vol. CD-ROM). ISBN/ISSN: 0-947644-62-7. : ENGINEERING TECHNICS PRESS (UNITED KINGDOM).

[14] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA. (2008). Cracking simulation of brick-masonry elements subjected to the double flat-jack test. 6th International Conference on Structural Analysis of Historical Construction. Bath (UK). 2-4 July 2008. (vol. 1, pp. 367-374). ISBN/ISSN: 978-0-415-48109-0. LONDON: CRC Press/Balkema (UNITED KINGDOM).

[15] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA, A. MANUELLO, L. BINDA. (2008). Numerical simulation and monitoring of the Cathedral of Siracusa in Sicily. 6th International Conference on Structural Analysis of Historical Construction. Bath (UK). 2-4 July 2008. (vol. 1, pp. 375-382). ISBN/ISSN: 978-0-415-48109-0. LONDON: CRC Press/Balkema (UNITED KINGDOM).

[16] C. BERTOLINI CESTARI, T. MARZI, INVERNIZZI S., J. M. TULLIANI. (2008). Nanotechnologies applied to the restoration and maintenance of wooden built heritage.

6th International Conference on Structural Analysis of Historical Construction. Bath (UK). 2-4 July 2008. (vol. 2, pp. 941-947). ISBN/ISSN: 978-0-415-48107-6. LONDON: CRC Press/Balkema (UNITED KINGDOM).

[17] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA. (2007). Numerical simulation of in situ nondestructive tests on historical masonry. XVIII Congresso AIMETA di Meccanica Teorica e Applicata. Brescia. 11-14 settembre 2007. (pp. 421). ISBN/ISSN: 978-88-89720-69-1. BRESCIA: Starrylink Editrice (ITALY).

[18] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA. (2007). Numerical simulation of brick-masonry subjected to the double flat-jack test. In: High-performance concrete, brickmasonry and environmental aspects. Fracture Mechanics of Concrete and Concrete Structures FraMCoS 6. Catania (Italy). 17-22 June 2007. (vol. 3, pp. 1623-1630). ISBN/ISSN: 978-0-415-44616-7. LEIDEN: Taylor & Francis (NETHERLANDS).

[19] J.G. ROTS, B. BELLETTI, M. BOONPICHETVONG, INVERNIZZI S. (2007). An application of sequentially linear analysis to settlement damage prediction for masonry façades. In: High-performance concrete, brick-masonry and environmental aspects. Fracture Mechanics of Concrete and Concrete Structures FraMCoS 6. Catania (Italy). 17-22 June 2007. (vol. 3, pp. 1653-1660). ISBN/ISSN: 978-0-415-44617-4. LEIDEN: Taylor & Francis (NETHERLANDS).

[20] J.G. ROTS, INVERNIZZI S. (2007). Sequentially linear analysis of discrete cracking in masonry panels. Int. Conf. on Modelling of Heterogeneous Materials MHM 2007. Prague (Czech Republic). 25-27 June 2007. (pp. 86-87). ISBN/ISSN: 978-80-01-03762-1. PRAGUE: M. Jiràsek, Z. Bittnar, H. Mang (CZECH REPUBLIC).

[21] J.G. ROTS, INVERNIZZI S., B. BELLETTI. (2007). Fracture via a sequence of events: a saw-tooth softening model. In: New trends in fracture mechanics of concrete. Fracture Mechanics of Concrete and Concrete Structures FraMCoS 6. catania (Italy). 17-22 June 2007. (vol. 1, pp. 427-435). ISBN/ISSN: 987-0-415-44065-3. LEIDEN: Taylor & Francis (NETHERLANDS).

[22] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA. (2006). Cracking simulation in three medieval masonry towers subjected to different loading conditions. In: Computational modelling of Concrete Structures. EURO-C 2006 Computational modeling of concrete structures. Mayrhofen (Austria). 27th - 30th March 2006. (pp. 699-708). ISBN/ISSN: 10: 0 415 39749 9. LEIDEN: Taylor & Francis (NETHERLANDS).

[23] CARPINTERI A, INVERNIZZI S., LACIDOGNA G. (2006). AE structural assessment of a XVII century masonry vault. In: Structural Analysis of Historical Constructions. V International conference on Structural Analysis of Historical Constructions SAHC2006. NEW DELHI. 6-8 November 2006. (vol. 1, pp. 545-552). ISBN/ISSN: 978-1403-93155-9. : (INDIA). P.B. Lourenço, P. Roca, C. Modena, S. Agrawal (Eds.).

[24] J.G. ROTS, B. BELLETTI, INVERNIZZI S. (2006). On the shape of saw-tooth softening curves for sequentially linear analysis. EURO-C 2006 Computational modeling of concrete structures. Mayrhofen (Austria). 27th - 30th March 2006. (pp. 431-442). ISBN/ISSN: 10: 0 415 39749 9. LEIDEN: Taylor & Francis (NETHERLANDS).

- [25] J.G. ROTS, B. BELLETTI, M. BOONPICHETVONG, INVERNIZZI S. (2006). Event-by-event strategies for modeling Amsterdam masonry structures. Structural Analysis of Historical Constructions. New Delhi. 6-8 November 2006. (vol. 2, pp. 1195-1203). ISBN/ISSN: 978-1403-93156-6. : P.B. Lourenço, P. Roca, C. Modena, S. Agrawal (INDIA).
- [26] J.G. ROTS, INVERNIZZI S., B. BELLETTI. (2006). Event-by-event strategies for modelling concrete structures. EURO-C 2006 Computational modeling of concrete structures. Mayrhofen (Austria). 27th - 30th March 2006. (pp. 667-678). ISBN/ISSN: 10: 0 415 39749 9. LEIDEN: Taylor & Francis (NETHERLANDS).
- [27] J.G. ROTS, INVERNIZZI S., B. BELLETTI. (2006). A sequentially linear saw-tooth model for interface elements. EURO-C 2006 Computational modeling of concrete structures. Mayrhofen (Austria). 27th - 30th March 2006. (pp. 203-212). ISBN/ISSN: 10: 0 415 39749 9. LEIDEN: Taylor & Francis (NETHERLANDS).
- [28] ROTS J.G, BELLETTI B, INVERNIZZI S. (2006). Saw-tooth softening model for reinforced concrete structures. In: Proceedings of the International Conference on Crack Paths (CP 2006). International Conference on CRACK PATHS (CP 2006). Parma. 14 - 16 September 2006. : (ITALY).
- [29] ROTS J.G, BELLETTI B, INVERNIZZI S. (2006). Simplified Saw-Tooth Softening Model for Reinforced Concrete Structures. In: Condensed Papers (1). Sessions 1-9 (Proceedings of the 2nd fib Congress, June 5-8, 2006 – Naples). 2nd fib Congress. Napoli. 5-8 Giugno 2006. (vol. 1). ISBN/ISSN: 88-89972-05-X. NAPOLI: Doppiovoce (ITALY). CDROM: ID 3-57 (pp.1-14) Session 3 – Modelling and design.
- [30] ROTS J.G, INVERNIZZI S., BELLETTI B. (2006). Saw-Tooth Softening Model for Concrete Structures. In: Finite Element Analysis of Reinforced Concrete Structures. Finite Element Analysis of Reinforced Concrete Structures. Maui, Hawaii, USA. November 2003. (vol. SP 237-18, pp. 277-294). ISBN/ISSN: 0-87031-215-4. : Laura Lowes, Filip Filippou (UNITED STATES).
- [31] A. CARPINTERI, INVERNIZZI S., G. LACIDOGNA. (2005). Numerical evaluation of cracking and crushing in ancient masonry towers. 11th International Conference on Fracture ICF11. Turin (Italy). March 20-25. (pp. 639). CDROM.
- [32] J.G. ROTS, B. BELLETTI, INVERNIZZI S. (2005). Saw-tooth softening models for concrete plates and shells. 5th International Conference on Computation of Shell & Spatial Structures IASSIACM2005. 1-4 June 2005. CDROM ea_287.pdf.
- [33] J.G. ROTS, INVERNIZZI S. (2005). Sequentially linear saw-tooth modeling of reinforced structures. 11th International Conference on Fracture ICF11. Turin (Italy). (pp. 1106). CDROM.
- M. BORRI-BRUNETTO, A. CARPINTERI, INVERNIZZI S., M. PAGGI. (2005). Micro-slip of rough surfaces under cyclic tangential loading. 4th Contact Mechanics International Symposium (CMIS). CDROM.
- [34] M. BORRI-BRUNETTO, INVERNIZZI S., M. PAGGI, A. CARPINTERI. (2005). Cyclic micro-slip and energy dissipation on elastic rough interfaces. Atti XVII Congresso Nazionale AIMETA. Firenze. 11-15 Settembre 2005. (pp. 312). ISBN/ISSN: 88-8453-313-9. BORGO ALBIZI (FI): Firenze University Press (ITALY). CDROM.

[35] ROTS J.G, INVERNIZZI S. (2005). Damage assessment in historical buildings during underground tunneling. ICF11 post-Conference Symposium on Damage and Repair of Historical and Monumental Buildings. Turin (Italy). (pp. 21-26).

[36] CARPINTERI AL, INVERNIZZI S., LACIDOGNA G. (2004). Nonlinear simulation and damage assessment of an historical masonry tower. Fracture Mechanics of Concrete and Concrete Structures FraMCoS 5. Vail (Colorado, USA). 12-16 April 2004. (vol. 2, pp. 709-716). ISBN/ISSN: 0-87031-135-2.

[37] J.G. ROTS, INVERNIZZI S. (2004). Prevision of settlement-induced cracking in historical building masonry façade. IV International Seminar on Structural Analysis of Historical Constructions SAHC. Padova. 10-13 November 2004. (vol. 1, pp. 687-694). ISBN/ISSN: 004-1536-379-9. LONDON: Taylor & Francis (NETHERLANDS).

[38] ROTS J.G, INVERNIZZI S. (2004). A Saw-Tooth Model for the Structural Analysis of Real-Scale Masonry Structures. 13th International Brick/Block Masonry Conference. Amsterdam. July 4-7, 2004. (vol. 4, pp. 1309-1318).

[39] ROTS J.G, INVERNIZZI S. (2004). Saw-tooth softening/stiffening model. Fracture Mechanics of Concrete and Concrete Structures FRAMCOS-5. Vail (Colorado, USA). 12-16 April 2004. (vol. 1, pp. 375-382). ISBN/ISSN: 0-87031-135-2.

Type of the role in the search: Researcher