

Iunio Iervolino

Specializzazione	Affidabilità Strutturale, Ingegneria Sismica, Rischio Sismico, Engineering Seismology
Interessi di ricerca	<ul style="list-style-type: none"> • Sviluppa attività di ricerca in: Ingegneria Sismica, Engineering Seismology, Loss assessment e Rischio Sismico. • E' revisore o fa parte dello scientific board di riviste internazionali di ingegneria sismica, strutturale e sismologia, quali: Bulletin of Seismological Society of America, Earthquake Engineering and Structural Dynamics, Journal of Earthquake Engineering, Engineering, Structures, Computer Aided Civil and Infrastructure Engineering. • E' membro del collegio dei docenti del dottorato in Rischio Sismico della Università degli Studi di Napoli Federico II. <p>Ulteriori dettagli a http://wpage.unina.it/iuniervo/</p>
Curriculum vitae breve	<ul style="list-style-type: none"> • 2005 - Oggi: <i>Ricercatore - Professore aggregato</i>, Dipartimento di Analisi e Progettazione Strutturale, Università di Napoli Federico II. • 2002 - Oggi: <i>Affiliate Researcher</i>, John A. Blume Earthquake Engineering Research Center, Stanford University (USA). • 2004 - 2005: <i>Assegnista di Ricerca</i>, Dipartimento di Analisi e Progettazione Strutturale, Università di Napoli Federico II. • 2001 - 2004: <i>Earthquake Engineering M.Sc.</i>, European School for Advanced Study in Reduction of Seismic Risk (ROSESCHOOL). Tesi: Record selection for nonlinear seismic analysis of structures, advisor C.A. Cornell, referee D.M. Boore. • 2001 - 2003: <i>Dottorato in Rischio Sismico</i>, Dipartimento di Analisi e Progettazione Strutturale, Università di Napoli Federico II. Tesi: Analisi quantitativa di rischio sismico nell'industria di processo, tutor Prof. Ing. G. Manfredi • 1995 - 2000: <i>Laurea in Ingegneria Gestionale</i>, Università di Napoli Federico II. Tesi: Progettazione e parametrizzazione del costo di edifici industriali prefabbricati, relatore Prof. Ing. E. Cosenza.
Pubblicazioni	<p>Lavori su rivista internazionale ISI al dicembre 2009</p> <ul style="list-style-type: none"> • Chioccarelli E., Iervolino I. (2009). Near-Source Seismic Demand and Pulse-Like Records: a Discussion for L'Aquila Earthquake. <i>Earthquake Engineering and Structural Dynamics</i>. • Iervolino I., Galasso C., Cosenza E. (2009). Computer aided seismic input selection for the new Italian seismic code. <i>Bollettino di Geofisica Teorica e Applicata</i>. • Iervolino I., Galasso C., Cosenza E. (2009). REXEL: computer aided record selection for code-based seismic structural analysis. <i>Bulletin of Earthquake Engineering</i>. DOI 10.1007/s10518-009-9146-1 [Vai alla pagina di REXEL - go to the REXEL page] • Iervolino I., Maddaloni G., Cosenza E. (2009). A note on selection of time-histories for seismic analysis of bridges in Eurocode 8. <i>Journal of Earthquake Engineering</i>, 13 (8):1125–1152. • Convertito V., Iervolino I., Herrero A. (2009). The importance of mapping the design earthquake: insights for southern Italy. <i>Bulletin of the Seismological Society of America</i>, 99(5), 2979–2991. doi: 10.1785/0120080272 • Caterino N., Iervolino I., Manfredi G., Cosenza E. (2008). Comparative analysis of multi-criteria decision making methods for seismic structural retrofitting. <i>Computer Aided Civil and Infrastructure Engineering</i>, 24, 432–445. DOI: 10.1111/j.1467-8667.2009.00599.x. • Iervolino I., Giorgio M., Galasso G., Manfredi G. (2008). Uncertainty in early warning predictions of engineering ground motion parameters: what really matters? <i>Geophysical research letters</i>, 36, L00B06, doi:10.1029/2008GL036644, 2009. • Iervolino I., Cornell C.A. (2008). Probability of occurrence of velocity pulses in near-source ground motions. <i>Bulletin of the Seismological Society of America</i>.

98(5): 2262-2277. [14th WCEE Presentation]

- Polese M., Verderame G., Mariniello C., Iervolino I., Manfredi G. (2008) Vulnerability analysis for gravity load designed RC buildings in Naples – Italy. *Journal of Earthquake Engineering*, 12(S2): 234–245.
- Caterino N., Iervolino I., Manfredi G., Cosenza E. (2008) Multi-criteria decision making for seismic retrofitting of RC structures. *Journal of Earthquake Engineering*, 12(4):555-583.
- Convertito V., Iervolino I., Manfredi G., Zollo A. (2008). Prediction of response spectra via real-time earthquake measurements. *Soil Dyn Earthquake Eng.* 28:492–505.
- Iervolino I., Maddaloni G., Cosenza E. (2008). Eurocode 8 compliant real record sets for seismic analysis of structures. *Journal of Earthquake Engineering*, 12(1):54-90.
- Iervolino I., Giorgio M., Manfredi G. Expected loss-based alarm threshold set for earthquake early warning systems. *Earthquake Engineering and Structural Dynamics* 2007; **36**:1151–1168, DOI: 10.1002/eqe.675
- Cosenza E., Iervolino I. Case Study. Seismic retrofitting of a medieval bell tower by FRP. *ASCE Journal of Composites for Construction*, Vol. 11, No. 3: 319-327, June 1, 2007.
- Iervolino I., Manfredi G., Polese M., Verderame G.M., Fabbrocino G. Seismic risk of r.c. building classes. *Engineering Structures*, 29:813–820, May 2007.
- Iervolino I., Convertito V., Giorgio M., Manfredi G., Zollo A. Real time risk analysis for hybrid earthquake early warning systems. *Journal of Earthquake Engineering*, 10(6): 867–885, December 2006.
- Fabbrocino G., Iervolino I., Manfredi G. Damage mitigation by innovative materials for Temple C at Selinunte. *Construction and Building Materials*, 20:1040-1048, December 2006.
- Iervolino I., Manfredi G., Cosenza E. Ground motion duration effects on nonlinear seismic response. *Earthquake Engineering and Structural Dynamics*, 35:21–38, January 2006.
- Iervolino I., Cornell C.A. Record selection for nonlinear seismic analysis of structures. *Earthquake Spectra*, 21(3):685-713, August 2005.
- Fabbrocino G., Iervolino I., Orlando F., Salzano E. Quantitative risk analysis of oil storage facilities in seismic areas. *Journal of Hazardous Materials*, 123(1-3):61-69, August 2005
- Iervolino I., Fabbrocino G., Manfredi G. Fragility of standard industrial structures by a response surface based method. *Journal of Earthquake Engineering*, 8(6):927–946, November 2004.
- Salzano E., Iervolino I., Fabbrocino G. The vulnerability of fuel storage tanks subjected to earthquakes. *Journal of Loss Prevention in the Process Industry*, 16(5):403-409, September 2003.