

ENRICO PRIOLO – Curriculum Vitae

Personal Data

Born in Trieste (Italy) on April 10, 1957.

Two sons.



Current Position

Senior researcher at Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS), Trieste (Italy), Seismological Section (CRS)

Coordinator of the “Induced Seismicity” CRS Research Group

Education

1981 Laurea degree in mathematics, at the University of Trieste.

Professional Positions

1984-2003 Tenured researcher (III level, permanent staff) at OGS in Trieste:

2003-present Senior researcher (II level, permanent staff) at OGS in Trieste.

2003-2008 Director of the OGS Seismological Department (CRS).

2012-2017 Vice-director of the OGS Seismological Section (CRS)

Assignments

2018-present Coordinator of the “Induced Seismicity” CRS Research Group;

2016-present Coordinator of the Working Group for Induced Seismicity of the ESC – European Seismological Commission

2016-present Responsible of the Cornegliano Laudense Seismic Network, the infrastructure aimed at monitoring the natural seismicity and induced micro-seismicity of the natural gas storage concession named "Cornegliano Stoccaggio".

2014-present Member of the Working Group for the “Guidelines for Monitoring Seismicity, Ground Deformation and Pore Pressure in Subsurface Industrial Activities“ of the Economic Development Ministry, Energy Department (MiSE)

2013-present Member of the Working Group “Natural and Induced Seismicity” of the National Council of the Geologists

2012-present Responsible of the Collalto Seismic Network, the infrastructure aimed at monitoring the natural seismicity and induced micro-seismicity of the natural gas storage concession named "Collalto Stoccaggio" (rete-collalto.crs.inogs.it)

2011-present Responsible of OASIS - "The OGS Archive System of Instrumental Seismology", the information system aimed at organizing, archiving and accessing to the OGS seismological data (oasis.crs.inogs.it).

2017-2018 Coordinator of the Seismological Analysis Thematic Unit within the study for the microzonation of the 138 municipalities damaged by the 2016 Central Italy earthquake sequence commissioned to the CMS - Center for Seismic Microzonation and its applications on behalf of the Extraordinary Commissioner for the reconstruction (Ord. Pres. Conc. Min. n. 24 del 12 maggio 2017)

2017 Delegate for OGS at the CMS – Centro per la Microzonazione Sismica (Seismic Microzonation Centre)

2008-2012 Responsible for the seismic monitoring service for the Trentino Province.

2004-2013 delegate for OGS at EMSC-CSEM, EPOS, and UNAVCO

- 2003-2008 As a director of the CRS Department, responsible of:
- the Seismic Monitoring Networks of the Friuli Venezia Giulia Region, Veneto Region, and the monitoring service for the Trentino Province;
 - the FReDNet GPS Geodetic Network.
- 2002-2003 Coordinator of the “Modelling and Engineering Seismology” CRS Research Group;

Research Experience

- Induced Seismicity & Seismic Monitoring of Human Industrial Activities: induced seismicity; seismic monitoring of underground gas storage; microseismicity detection & location; management of borehole sensors and recordings;
- Seismic monitoring: permanent and temporary seismic monitoring networks; emergency and post-earthquake intervention; earthquake monitoring, recognition and alert.
- Numerical modelling of seismic wave propagation: finite-element, spectral-element, finite-difference, wavenumber-integration, and pseudo-spectral methods; large scale modelling; cad aided design of geo-models; unstructured meshes; verification and validation of numerical methods.
- Numerical simulation of earthquakes: ground motion estimation, also for complex geological models; kinematic modelling of extended sources; upper-limit and near-source ground motion; ground motion scenarios.
- Seismic wave propagation: wave propagation through complex geological structures; real media (anisotropy, attenuation, wave dispersion in layered media, ...); surface and interface waves.
- Engineering seismology: site response estimation using numerical and experimental field methods; seismic hazard estimation; soil-structure interaction; seismic micro-zonation.
- Site response estimation: seismic noise analysis; spectral ratios from earthquake records; Vs estimation; integration of geophysical methods (seismological, tomographic, gravimetric, ... investigations); response site-specific spectra; interferometric function for borehole recordings.
- Active and passive (earthquake) tomography: analysis of the tomographic resolution; joint inversion of earthquake location and velocity structure; comparison of methods.
- Field surveys: seismic noise measurements; earthquake recordings; array measurements.
- GPS networks for real time positioning.

Key-Projects vs. Research Fields in short

Numerical modelling: EU-EOS and EU-GEOSCIENCE (Spectral Element Methos); Catania GNDT-Projects; Friuli-Veneto GNDT-Project; EU SISMOVALP (Alpine Valley Response); INGV-GNDT Appennino Project (Colfiorito 3D model & simulations); INGV-GNV Campi Flegrei and S4 Projects (Campi Flegrei 3D model & simulations); PEGASOS Project; E2VP / CASHIMA Project; Emilia 3D model & simulations;

Microzonation (geophysical studies for): Catania (Sicily Region); Fabriano, Cagli, Treia, Senigallia (Marche Region), Vittorio Veneto (Veneto Region), Tolmezzo (Friuli Venezia Giulia Region), Spoleto, Perugia, Umbertide (Umbria Region);

Site Response: Progetto Ravedis; MIUR-STESSA Project; Bevagna (Umbria Region); Ferrara, Casaglia, Mirandola (Emilia Region); + all previous localities

Induced Seismicity: Cornegliano Laudense Seismic Monitoring & Network, Collalto Seismic Monitoring & Network, Progetto Ravedis,

Field Experience

- 2015-2017 Scouting survey and support to the field work for realization of the seismic monitoring network of Cornegliano Laudense;
- 2012-2013 Umbertide (Perugia): earthquake and seismic noise recordings;
- 2009-2010 Sulmona (L'Aquila): earthquake recordings;
- 2009-2010 Bevagna (Perugia): earthquake and seismic noise recordings for site response estimation;
- 2008-2009 Perugia: earthquake and seismic noise recordings for site response estimation;
- 2006-2007 Spoleto (Perugia): earthquake and seismic noise recordings for site response estimation; Vs estimation; active source tomography.
- 2005-2006 Tagliamento Valley, Tolmezzo: seismic noise recordings for site response estimation.
- 2003-2004 Vittorio Veneto (Treviso): seismic noise recordings for site response estimation; Vs estimation.
- 1999 Catania (Italy): seismic noise recordings for site response estimation.
- 1985 Alta Pianura Friulana (Italy): geo-electrical survey for the geophysical and hydrogeological characterization of the quaternary, alluvial sediments.
- 1979-1982 Karst in the Trieste and Gorizia area: geo-electrical surveys.

Tutoring

Supervisor of three “laurea” degree theses at the Trieste and Udine University.

Tutor and supervisor of two Ph. D. Theses at the Trieste University.

Tutor of seven undergraduate stages for the Trieste University.

2010: member of the commission for Ph. D. evaluation at ROSE School of Pavia

2013-2014: member of the Ph. D. Teachers College in *Earth Science and Fluid Mechanics* at Trieste University

Editorial Experience

1995-2013 Associate Editor of the *Bollettino di Geofisica Teorica ed Applicata*.

2002 Special Issue on “Site response estimation from observed ground motion data”. Priolo, E., Michellini, A., Hutchings, L. (Guest Editors). *Boll. Geofis. Teor. Appl.*

Reviewer for scientific journals (e.g.: *Seismological Research Letters*, *Bulletin of the Seismological Society of America*, *Geophysics*, *Geophysical Journal International*, *Journal of Seismology*, *Pure and Applied Geophysics*).

Memberships

Active member of SSA, SEG, AGU.

Research Projects

2015-present *Integrated monitoring of seismicity and ground deformation for the Cornegliano-Laudense underground gas storage; Project funded by Ital Gas Storage s.p.a.; Project leader*

2010-present *The Collalto Seismic Network – Seismic Monitoring of the gas storage activity within the natural underground reservoir of Collalto-Montello-Feletto; Edison Stoccaggio s.p.a.; Project leader.*

2016-present “GEMex: Cooperation in Geothermal energy research Europe-Mexico for development of Enhanced Geothermal Systems and Superhot Geothermal Systems” EU-Project (n. 727550, H2020-LCE-2016-RES-CCS-RIA); Participant scientist.

2016-2019 “ENOS - ENabling Onshore CO2 Storage in Europe” EU-Project (n. 653718-2, H2020-LCE-2015); Participant scientist.

- 2016-2018 *Project INSIEME (Induced Seismicity in Italy: Estimation, Monitoring, and sEismic risk mitigation), SIR-MIUR research program, project n. RBSI14MN31; Participant scientist;*
- 2017 *Studies for the 3rd level microzonation of 140 Municipalities Damaged by the 2016 Central Italy Seismic Sequence, within the framework of the “Commissario Straordinario” intervention and the coordination of the “CMS - Centro di Microzonazione Sismica e sue applicazioni”;* Coordination of the Seismological Analysis Thematic Unit.
- 2016-2017 *OGS intervention set up during the seismic sequence that followed the Mw6.0 August 24, 2016 Central Italy earthquake, under the coordination of “CMS - Centro di Microzonazione Sismica e sue applicazioni” on request of DPC - Department of Civil Protection.*
- 2016 *Studies for the Local Seismic Response Estimation in the Central Po Plain, Right Bank of Po River [transl], Project funded by the Regione Emilia-Romagna; Participant scientist.*
- 2014-2016 *“Environmental Safety of Off-Shore Hydrocarbon Research and Production” Project, Agreement between “MiSE – Ministry for the Economic Development” and OGS:*
- Subproject: *Development of methods for rapid correlation of the detected seismicity to the underground exploitation for energy production”. Sub-project responsible;*
- 2015 *3D Numerical Modeling for Site Response Evaluation & Seismological Study for the Deployment of an Accelerometric Station in Mirandola, Project funded by the Regione Emilia-Romagna; Project Leader*
- 2014-2015 *INGV – S2 S2-2014 Project Constraining OBServations into Seismic hazard:*
- Subproject: *Improving information and data on seismic events induced by human activities in Italy. Sub-project co-responsible;*
 - Subproject: *Network of Italian Surface-Borehole Accelerometers and Seismometers (NISBAS). Participant scientist;*
 - Subproject: *Use of data available from 3rd level microzonation studies for GMPE’s validation purposes. Participant scientist;*
- 2013 *Studi geofisici finalizzati alla microzonazione di alcune località dell’Emilia-Romagna. [transl. Geophysical studies for the microzonation of some towns in Emilia-Romagna], Regione Emilia-Romagna. Participant scientist.*
- 2013 *Studio geofisico/ sismologico nell’ambito della realizzazione dell’impianto geotermico nell’area di Pontegradella (FE) [transl. Geophysical/ seismological study for the realization of the geo-thermal facility in the Pontegradella (FE) area], HERA S.p.A., Participant scientist.*
- 2012-2015 *E2VP-2 (Evaluation, Verification, and Validation Project – Phase 2), subproject of the CASHIMA Project, CEA – France. Participant scientist.*
- 2012-2013 *Subproject of Progetto INGV – S2: Valutazione della pericolosità sismica naturale ed indotta dei serbatoi naturali di stoccaggio di gas, e degli strumenti di controllo e monitoraggio delle attività [transl. Assessment of the natural and induced seismicity hazard for the underground gas-storage reservoirs, and of the activity control and monitoring procedures] , Sub-project co-responsible.*
- 2012-2013 *Studi geofisici finalizzati alla microzonazione dell’area urbana di Umbertide (PG) [transl. Geophysical studies for the microzonation of the urban area of Umbertide (PG)], Regione Umbria. Project leader.*
- 2008-2010 *Progetto biennale MIUR-PRIN07 intitolato Validazione di tecniche semplificate per la stima della amplificazione sismica di sito (STESSA) [transl. Validation of simplified methods for the estimation of site seismic amplification]. OGS RU responsible.*
- 2008-2010 *E2VP (Evaluation, Verification, and Validation Project), subproject of the CASHIMA Project, CEA – France. Participant scientist.*
- 2007 *Studio di fattibilità per la realizzazione di una rete permanente per il monitoraggio della sismicità naturale e della microsismicità indotta dalle attività di stoccaggio di gas nel serbatoio naturale Montello-Feletto [transl. Feasibility study for the realization of a permanent network for monitoring the natural seismicity and the induced micro-seismicity by the gas storage activity within*

- the natural underground reservoir of Montello-Feletto*], Edison Stoccaggio s.p.a. Project leader.
- 2008-2009 *Studi geofisici finalizzati alla microzonazione dell'area urbana di Perugia* [transl. *Geophysical studies for the microzonation of the urban area of Perugia*], Regione Umbria. Project leader.
- 2006-2010 *Una rete GPS per il posizionamento in tempo reale nel Friuli Venezia Giulia (GPS-RTK)* [transl. *A GPS network for real-time positioning in Friuli Venezia Giulia (GPS-RTK)*], Regione Autonoma Friuli Venezia Giulia. Project leader.
- 2006-2007 *Microzonazione sismica del centro storico di Spoleto* [transl. *Seismic microzonation of the historical centre of Spoleto*], Spoleto Municipality. Project leader.
- 2005-2008 *Progetto Ravedis—Analisi della sismicità indotta dalla presenza di invasi* [transl. *Analysis of the seismicity induced by the presence of artificial water reservoirs*], Fondazione Vajont 9 ottobre 1963. Project leader.
- 2005-2007 *Progetto sismologico S3—Scenari di scuotimento e di danno atteso in aree di interesse prioritario e/o strategico* [transl. *Ground shaking and damage scenarios expected in priority and strategic areas*], INGV-DNPC¹. Participant scientist.
- 2005-2007 *Progetto sismologico S4—Stima dello scuotimento in tempo reale e quasi-reale per terremoti significativi in territorio nazionale* [transl. *Real- and quasi-real-time ground shaking estimation for strong earthquakes in the national area*]. INGV-DNPC. OGS RU responsible.
- 2005-2007 *Progetto sismologico S5—Definizione dell'input sismico sulla base degli spostamenti attesi* [transl. *Definition of the seismic input on the base of the expected displacement*], INGV-DNPC. Participant scientist.
- 2005-2007 *Progetto Vulcanologico V4—Ideazione, verifica ed applicazione di tecniche innovative per lo studio dei vulcani attivi* [transl. *Conception, verification, and application of innovative techniques to study active volcanoes*], INGV-DNPC. OGS RU responsible.
- 2004-2005 *Progetto Microzonazione Marche 2*, Regione Marche–INGV. OGS RU responsible.
- 2002-2007 *SISMOVALP-Seismic hazard and alpine valley response analysis*. EU INTERREG IIIB Alpine Space Programme. Responsible for the OGS participation and Task Coordinator.
- 2002-2006 *Reti sismologiche senza frontiere nelle Alpi sud-orientali*. EU INTERREG IIIA Italia-Austria Programme. Responsible for the OGS participation since 2003.
- 2002-2003 *PEGASOS Project - Probabilistic Seismic Hazard Analysis for the Swiss Nuclear Power Plant Sites*. Resource specialist and coordinator of the OGS RU for the following themes: *Estimation of the ground motion upper limit* and *Estimation of the near-fault ground motion*.
- 2000-2004 *Sviluppo e confronto di metodologie per la valutazione della pericolosità sismica in aree sismogenetiche: applicazione all'Appennino Centrale e Meridionale*. [transl. *Development and comparison of different methodologies for seismic hazard evaluation, with application to the Central and Southern Apennines (Italy)*], INGV-GNDT. OGS RU responsible.
- 2000-2004 *Metodologie sismiche integrate per lo studio della struttura dei vulcani attivi. Applicazione alla caldera dei Campi Flegrei* [transl. *Integrated seismic methods for the study of the active volcanoes structure*]. INGV-GNV². OGS RU responsible and Task Coordinator.
- 2000-2005 *Scenari dettagliati e provvedimenti finalizzati alla prevenzione sismica nel Comune di Catania* [transl. *Detailed scenarios and actions for seismic prevention of damage in the urban area of Catania*], INGV-GNDT. OGS RU responsible and Task Coordinator.
- 2000-2004 *Scenari di danno nell'area veneto-friulana* [transl. *Damage scenarios in the Friuli-Veneto area*], INGV-GNDT. Participant scientist.

¹ Direzione Nazionale della Protezione Civile – National Department of the Civil Protection

² GNV: Gruppo Nazionale di Vulcanologia – National Group of Volcanology

- 2000-2001 *Progetto Microzonazione Marche* [transl. *Marche Microzonation Project*], Regione Marche–INGV³-GNDT. OGS RU responsible.
- 1999 *Progetto Microzonazione Umbria-Marche* [transl. *Umbria-Marche Microzonation Project*], CNR-GNDT. OGS RU responsible.
- 1996-1999 *Progetto Catania* [transl. *Catania Project*], CNR-GNDT⁴. OGS RU⁵ responsible.
- 1993-1996 *GEOSCIENCE II-Stratigraphic Modelling and Inversion*, EU Project. Participant scientist.
- 1990-1992 *EOS-Exploration Oriented Seismic Modelling and Inversion*, EU Project. Participant scientist.

Publications (ISI)

Submitted, currently under review

Guidarelli M., Klin P., Priolo E. (in review). Migration-based near real-time detection and location of micro-earthquakes with parallel computing, *Geophys. J. Int.*

Published

- Stabile, T. A., Serlenga, V., Satriano, C., Romanelli, M., Gueguen, E., Gallipoli, M. R., Ripepi, E., Saurel, J.-M., Panebianco, S., Bellanova, J., and Priolo, E. (accepted): The INSIEME seismic network: a research infrastructure for studying induced seismicity in the High AgriValley (southern Italy), *Earth Syst. Sci. Data Discuss.*, <https://doi.org/10.5194/essd-2019-113>, in review, 2019.
- Fast MW estimation of microearthquakes recorded around the underground gas storage in the Montello-Collalto area (Southeastern Alps, Italy) (2019). Lanzoni, A., Moratto, L., Priolo, E. et al. *J Seismol* (online) (2019). <https://doi.org/10.1007/s10950-019-09889-0> (Open Access)
- Romano M. A., L. Peruzza, M. Garbin, E. Priolo, and V. Picotti (2019). Microseismic portrait of the Montello thrust (Southeastern Alps, Italy) from a dense, high-quality seismic network. *Seismol. Res. Lett.*, 90, 1502-1517 + esupp, doi: <https://doi.org/10.1785/0220180387>
- Moratto L., M. A. Romano, G. Laurenzano, S. Colombelli, E. Priolo, A. Zollo, A. Saraò, M. Picozzi (2019). Source parameters analysis of microearthquakes recorded around the underground gas storage in the Montello- Collalto Area (Southeastern Alps, Italy). *Tectonophysics*, 762, 159-168. <https://doi.org/10.1016/j.tecto.2019.04.030> (Open Access)
- Klin P., Laurenzano G., Romano M. A., Priolo E., and Martelli L. (2019). ER3D: a structural and geophysical 3-D model of central Emilia-Romagna (northern Italy) for numerical simulation of earthquake ground motion. *Solid Earth*, 10, 931-949, <https://doi.org/10.5194/se-10-931-2019> (Open Access)
- Priolo E., F. Pacor, D. Spallarossa, G. Milana, G. Laurenzano, M. A. Romano, C. Felicetta, S. Hailemichael, F. Cara, G. Di Giulio, G. Ferretti, C. Barnaba, G. Lanzano, L. Luzi, M. D'Amico, R. Puglia, D. Scafidi, S. Barani, R. De Ferrari, G. Cultrera (2019). Seismological analyses of the seismic microzonation of 138 municipalities damaged by the 2016-2017 seismic sequence in Central Italy. *Bull. Earthq. Eng.*, doi: <https://doi.org/10.1007/s10518-019-00652-x> (Open Access)
- Laurenzano G, C Barnaba, MA Romano, E Priolo, M Bertoni, PL Bragato, P Comelli, I Dreossi, M Garbin (2018). The Central Italy 2016–2017 seismic sequence: site response analysis based on seismological data in the Arquata del Tronto–Montegallo municipalities. *Bull Earthquake Eng*, <https://doi.org/10.1007/s10518-018-0355-3> (Open Access)

³ Istituto Nazionale di Geofisica e Vulcanologia – National Institute of Geophysics and Volcanology

⁴ CNR: Consiglio Nazionale delle Ricerche - ; GNDT: Gruppo Nazionale per la Difesa dai Terremoti.

⁵ RU: Research Unit.

- Klin, P., Laurenzano, G., Priolo, E. (2018). Gitanes: A Matlab package for estimation of site spectral amplification with the generalized inversion technique. *Seismol. Res. Lett.*, 89(1), 182-190. DOI: <https://doi.org/10.1785/0220170080>
- Ciccione, F., Priolo, E., Teofilo, G., Antoncicchi, I., Lanari, R. (2017). Seismic monitoring of underground activities for energy production: Survey of the existing facilities with reference to the Italian monitoring guidelines. *GEAM - Geingegneria Ambientale e Mineraria*, 152(3), 69-72, <https://www.geam.org/images/anteprime/29.pdf> (Open Access)
- Moratto, L., Saraò, A., Priolo, E. (2017). Moment magnitude (Mw) estimation of weak seismicity in Northeastern Italy. *Seismol. Res. Lett.*, 88(6), 1455-1464, DOI: 10.1785/0220170063
- Laurenzano, G., Priolo, E., Mucciarelli, M., Martelli, L., Romanelli, M. (2017). Site response estimation at Mirandola by virtual reference station. *Bull. Earthq. Eng.*, 15(6), 2393–2409, doi: <https://doi.org/10.1007/s10518-016-0037-y> (Open Access)
- Grigoli F., Cesca S., Priolo E., Rinaldi A. P., Clinton J. F., Stabile T. A., Dost B., Garcia Fernandez M., Wiemer S., and Dahm T. (2017). Current challenges in monitoring, discrimination, and management of induced seismicity related to underground industrial activities: A European perspective. *Rev. Geophys.*, 55, doi:10.1002/2016RG000542
- Diez Zaldívar, E., Priolo, E., Grigoli, F., Cesca, S. (2016). Misalignment Angle Correction of Borehole Seismic Sensors: The Case Study of the Collalto Seismic Network. *Seismol. Res. Lett.* 87 (3), 668-677
- Grigoli, F., Cesca, S., Krieger, L., Kriegerowski, M., Gammaldi, S., Horalek, J., Priolo, E., Dahm, T. (2016). Automated microseismic event location using Master-Event Waveform Stacking. *Scientific Reports*, 6.
- Laurenzano, G., Priolo, E., Mucciarelli, M., Martelli, L., Romanelli, M. (2016). Site response estimation at Mirandola by virtual reference station. *Bull. Earthq. Eng.*, doi:10.1007/s10518-016-0037-y.
- Chaljub E., E. Maufroy, P. Moczo, J. Kristek, F. Hollender, P.Y. Bard, E. Priolo, P. Klin, F. De Martin, Z. Zhang, W. Zhang, and X. Chen (2015). 3D numerical simulations of earthquake ground motion in sedimentary basins: testing accuracy through stringent models. *Geophys. J. Int.* 201 (1), 90-111, doi: 10.1093/gji/ggu472
- Maufroy E., Chaljub E., F. Hollender, J. Kristek, P. Moczo, P. Klin, E. Priolo, A. Iwaki, T. Iwata, V. Etienne, F. De Martin, N. Theodoulidis, M. Manakou, C. Guyonnet-Benaize, K. Ptilakis, P.-Y. Bard (2015). Earthquake ground motion in the Mygdonian basin, Greece: the E2VP verification and validation of 3D numerical simulation up to 4 Hz. *Bull. Seis. Soc. Am.*, 105, 1398-1418, doi:10.1785/0120140228
- Mucciarelli M., Priolo E., Santulin M. and Tamaro A. (2015). Seismic hazard from natural and induced seismicity: a comparison for Italy. *Boll. Geofis. Teor. Appl.*, 56-4, 519-526, doi: 10.4430/bgta0158
- Priolo E., M. Romanelli, M. P. Plasencia Linares, M. Garbin, L. Peruzza, M. A. Romano, P. Marotta, P. Bernardi, L. Moratto, D. Zuliani, and P. Fabris (2015). Seismic monitoring of an underground natural gas storage facility: the Collalto Seismic Network. *Seism. Res. Lett.*, 86 (1), 109-123 + esupp, doi: 10.1785/0220140087
- Priolo E., G. Laurenzano, C. Barnaba, P. Bernardi, L. Moratto, A. Spinelli (2015). OASIS - The OGS Archive System of Instrumental Seismology. *Seism. Res. Lett.*, 86 (3), 978-984 + esupp, doi: 10.1785/0220140175
- Barnaba C, Laurenzano G, Moratto L, Sukan M, Vuan A, Priolo E, Romanelli M, Di Bartolomeo P, (2014). Strong-motion observations from the OGS temporary seismic network during the

- 2012 Emilia sequence in northern Italy. *Bull. Earthquake Eng.*, 12 (5), 2165-2178. DOI 10.1007/s10518-014-9610-4.
- Romano, M. A., R. de Nardis, M. Garbin, L. Peruzza, E. Priolo, G. Lavecchia, and M. Romanelli (2013). Temporary seismic monitoring of the Sulmona area (Abruzzo, Italy): a quality study of microearthquake locations. *Nat. Hazards Earth Syst. Sci.*, 13, 2727-2744, www.nat-hazards-earth-syst-sci.net/13/2727/2013/ doi:10.5194/nhess-13-2727-2013
- Puglia R., Vona M., Klin P., Ladina C., Masi A., Priolo E., Silvestri F. (2013). Analysis of site response and building damage distribution due to the 31 October 2002 earthquake at San Giuliano di Puglia (Italy). *Earthquake Spectra*, 29 (2), 497-526, doi: 10.1193/1.4000134.
- Garbin M. and E. Priolo (2013). Seismic event recognition in the Trentino area (Italy): performance analysis of a new semi-automatic system. *Seism. Res. Lett.*, 84(1), 65-74.
- Priolo E., L. Lovisa, A. Zollo, G. Böhm, L. D'Auria, S. Gautier, F. Gentile, P. Klin, D. Latorre, A. Michelini, T. Vanorio and J. Virieux (2012). The Campi Flegrei Blind Test: evaluating the imaging capability of local earthquake tomography in a volcanic area. *Int. J. Geophys.* Article ID 505286, 37 pp. doi:10.1155/2012/505286.
- Moretti M., Abruzzese L., Abu Zeid N., et al. (2012). Rapid response to the earthquake emergency of May 2012 in the Po Plain, Northern Italy. *Annals of Geophysics*, 55 (4); doi:10.4401/ag-6152.
- Priolo E., M. Romanelli, C. Barnaba, M. Mucciarelli, G. Laurenzano, L. Dall'Olio, N. Abu-Zeid, R. Caputo, G. Santarato, L. Vignola, C. Lizza and P. Di Bartolomeo (2012). The Ferrara Thrust Earthquakes of May-June 2012 – Preliminary Site Response Analysis at the Sites of the OGS Temporary Network. *Annals of Geophysics*, 55 (4), 7 pp.
- Vuan, A., P. Klin, G. Laurenzano, and E. Priolo (2011). Far-Source Long-Period Displacement Response Spectra in the Po and Venetian Plains (Italy) from 3D Wavefield Simulations. *Bull. Seis. Soc. Am.*, 95(1), 241-251.
- Klin P, Priolo E, Seriani G. (2010). Numerical simulation of seismic wave propagation in realistic 3-D geo-models with a fourier pseudo-spectral method. *Geophys. J. Int.*, 183(2):905-922. 10.1111/j.1365-246X.2010.04763.x
- Barnaba C, Marellò L, Vuan A, Palmieri F, Romanelli M, Priolo E, Braitenberg C. (2010). The buried shape of an alpine valley from gravity surveys, seismic and ambient noise analysis. *Geophys. J. Int.*, 180(2):715-33.
- Laurenzano G., Priolo E., Gallipoli M. R., Mucciarelli M., and Ponzio F. C. (2010). Effect of Vibrating Buildings on Free-Field Motion and on Adjacent Structures: The Bonifratelli (Italy) Case History. *Bull. Seis. Soc. Am.*, 100(2), 802–818, doi: 10.1785/0120080312.
- Mucciarelli M., Böhm G., Caputo R., Giocolo A., Gueguen E., Klin P., Marellò L., Palmieri F., Piscitelli S., Priolo E., Romano G., e Rizzo E. (2009). Caratteri geologici e geofisici dell'area di San Giuliano di Puglia. *Rivista Italiana di Geotecnica*, 3, 32-42.
- Vuan A., Rovelli A., Mele G., and E. Priolo (2009). *Suboceanic Rayleigh Waves in the 1755 Lisbon Earthquake*. In: Mendes-Victor L., Sousa Oliveira C., Azevedo J., Ribeiro A. (Eds.) *The 1755 Lisbon Earthquake: Revisited*, Springer, pp. 283-296, ISBN: 978-1-4020-8608-3.
- Laurenzano G., Priolo E., and Tondi E. (2008). 2D numerical simulations of earthquake ground motion: examples from the Marche Region, Italy. *J. of Seismol.*, 12(3), 395-412. DOI: 10.1007/s10950-008-9095-1
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