

Rodolfo Console – Curriculum vitae
24/06/2020

Job activities

Researcher at the National Institute of Geophysics (Rome) 1968-1990.

Main early activities: Upgrading of the Italian National Seismological Network (1968-1982);

- Development of computer procedures for the preparation of National Seismological bulletins (1972-1982);

- Implementation of the nation-wide automatic acquisition system of seismological data (1982-1987).

Senior Researcher at the National Institute of Geophysics (Rome) 1990-1992

Research Manager at the Istituto Nazionale di Geofisica e Vulcanologia (INGV, Rome) 1992-2004

Present position after formal retirement in 2004: Research Associate at the INGV.

International and Institutional activities

Participation in international committees; Director or co-director of four international workshops.

Member of the Committee for the reorganization of the INGV, appointed by the Minister of the University and Scientific Research of the Italian Government (2010-2012). President of the Center of Integrated Geomorphology for the Mediterranean Area (2012-present).

Academic activities

Lecturer of the annual course in Seismology at the University of Rome "Roma Tre" (1997-2009). Lecturer of the course "Physics of earthquake sources" for the PhD course organized by the Universities of Bologna, Rome and Napoli (2001-2015) and "Physics of earthquake sources" for the PhD course organized by the University "Roma Tre" of Rome (2007-2009).

Lecturer in the master course in Geophysics at the University of La Spezia (Italy) (2003 and 2004).

Editorial activities

Editor of special issues of *Annals of Geophysics* and proceedings of meetings. Editor's citation for "Excellence in refereeing" by *Journal of Geophysical Research* (2005). Associate editor of "Annals of Geophysics" (1990-2004), "Journal of Geophysical Research" (2005-2012) and "Acta Geophysica" (2012-present).

Scientific research

Published more than 200 papers on international journals, mostly related to seismological data processing, earthquake physics, seismicity patterns and statistical analysis. 202 papers are quoted by "Google Scholar" as cited 1962 times with an h-index of 26 and an i10-index of 52.

List of relevant papers for the latest 10 years

Console, R., Murru, M., and G. Falcone (2010). Probability gains of an epidemic-type aftershock sequence model in retrospective forecasting of $M \geq 5$ earthquakes in Italy. *J. of Seismology*, 14, 1, 9-26.

Console, R., Murru, M., and G. Falcone (2010). Perturbation of earthquake probability for interacting faults by static Coulomb stress changes. *J. of Seismology*, 14, 1 67-77

Console, R., Jackson, D.D., Kagan, Y.Y. (2010). Using the ETAS model for catalog declustering and seismic background assessment. *Pure Appl. Geoph.*, 10.1007/s00024-010-0065-5.

Console, R., Murru, M., and G. Falcone (2010). Retrospective forecasting of $M \geq 4.0$ earthquakes in New Zealand. *Pure Appl. Geoph.*, 10.1007/s00024-010-0068-2.

Rhoades, D.A., Papadimitriou, E.E., Karakostas, V.G., Console, R., and Murru, M. (2010). Correlation of static stress changes and earthquake occurrence in the North Aegean region. *Pure Appl. Geoph.*, 10.1007/s00024-010-0092-2.

Falcone, G., Console, R., and M. Murru (2010). Short-term and long-term earthquake occurrence models for Italy: ETES, ERS and LTST (41-50). In: An earthquake forecast experiment in Italy, W. Marzocchi, D. Schorlemmer, and S. Wiemer ed., *Annals of Geophysics*, 53, 41-50.

Parsons, T., Console, R., Falcone, G., Murru, M. and K. Yamashina (2012). Comparison of characteristic and Gutenberg-Richter models for time-dependent $M \geq 7.9$ earthquake probability in the Nankai-Tokai subduction zone, Japan. *Geophys. J. Int.*, doi: 10.1111/j.1365-246X.2012.05595.x.

Mosca, I., Console, R., and G. D'Addezio (2012). Renewal models of seismic recurrence applied to paleoseismological and historical observations. *Tectonophysics*, 564-565, 54-67.

Console, R., K. Yamaoka, and J. Zhuang (2012). Implementation of short- and medium-term earthquake forecast, Editorial. *Int. J. of Geophys.*, Volume 2012, Article ID 217923, 2 pages, doi:10.1155/2012/217923.

Console, R., G. Falcone, V. Karakostas, M. Murru, E. Papadimitriou, and D. Rhoades (2013), Renewal models and coseismic stress transfer in the Corinth Gulf, Greece, fault system, *J. Geophys. Res. Solid Earth*, 118, 3655–3673, doi:10.1002/jgrb.50277.

Console, R., R. Carluccio, E. Papadimitriou, and V. Karakostas (2014). Synthetic earthquake catalogs simulating seismic activity in the Corinth Gulf, Greece, fault system, *J. Geoph. Res.*, 120, 1, 326-343, doi:10.1002/2014JB011765.

Murru, M., J. Zhuang, R. Console, and G. Falcone (2014). Short-term earthquake forecasting experiment before and during the L'Aquila (central Italy) seismic sequence of April 2009, *Annals of Geoph.*, 57, 6, 2014, S0649; doi:10.4401/ag-6583.

Console, R., A. Mercuri, R. Carluccio and M. Chiappini (2016). Analisi delle condizioni di sismicità nelle aree di discarica della Regione Sicilia prese in considerazione nel Progetto SIGLOD, *Quaderni di Geofisica*, 135, pp. 36.

Murru, M., Akinci, A., Falcone, G., Pucci, S., Console, R. and Parsons, T. (2016). $M \geq 7$ Earthquake Rupture Forecast and Time-Dependent Probability for the Sea of Marmara Region, Turkey, *J. Geoph. Res.*, 121, 4, 2679–2707, doi: 10.1002/2015JB012595.

Console, R., A. Nardi, R. Carluccio, M. Murru, G. Falcone, and T. Parsons (2017). A physics-based earthquake simulator and its application to seismic hazard assessment in Calabria (Southern Italy) region, *Acta Geophys.*, doi: 10.1007/s11600-017-0020-2.

Console, R., Murru, M. and Falcone, G., 2017. Earthquake Occurrence: Short- and Long-Term Models and their Validation. Mathematics and Statistics Series, Statistical Methods for Earthquakes Set, Vol. 1, *ISTE – Wiley*, pp. 135.

Console, R., T. Parsons, G. Falcone, M. Murru, and K. Yamashina (2018), Comments on 'Why is Probabilistic Seismic Hazard Analysis (PSHA) still used?' by F. Mulargia, P.B. Stark and R.J. Geller, *Physics of the Earth and Planetary Interiors*, v. 274, 214-215. <https://doi.org/10.1016/j.pepi.2017.09.009> -

Mangira, O., R. Console, E. Papadimitriou and G. Vasiliadis (2018). A restricted linked Stress Release Model (LSRM) for the Corinth Gulf (Greece). *Tectonophysics*, 723, 162-171.

Console, R., Chiappini, M., Minelli, L., Speranza, F., Carluccio, R. and M. Greco (2018). Seismic hazard in Southern Calabria (Italy) based on the analysis of a synthetic earthquake catalog, *Acta Geophysica*, doi: 10.1007/s11600-018-0181-7.

Vannoli, P., F. Bernardi, B. Palombo, G. Vannucci, R. Console and G. Ferrari (2018). New constraints shed light on strike-slip faulting beneath the southern Apennines (Italy): The 21 August 1962 Irpinia multiple earthquake, *Tectonophysics*, 691, Part B, doi: 10.1016/j.tecto.2016.10.032.

Console, R., Vannoli, P. and Carluccio, R. (2018). The Seismicity of the Central Apennines (Italy) Studied by Means of a Physics-Based Earthquake Simulator, *Geoph. J. Int.*, 212, 916-929, doi: 10.1093/gji/ggx451.

Parsons, T., Geist, E. L., Console, R. and Carluccio, R. (2018). Characteristic earthquake magnitude frequency distributions on faults calculated from consensus data in California, *J. Geoph. Res.* 123, 12, 10,761-10,784, doi: 10.1029/2018JB016539.

Materni, V., Giuntini, A. & Console, R. (2019). Earthquake location by a sparse seismic network, *J. Seism.*, <https://doi.org/10.1007/s10950-018-09812-z>

Mangira, O., Console, R., Papadimitriou, E., Murru, M. and Karakostas, V. (2019). The short-term seismicity of the Central Ionian Islands (Greece) studied by means of a clustering model, *Geoph. J. Int.*, 220, 856-875, doi: 10.1093/gji/ggz481.

Console, R., Murru, M., Vannoli, P., Carluccio, R., Taroni, M. and Falcone, G. (2020). Physics-based Simulation of Sequences with Multiple Mainshocks in Central Italy, Accepted for publication on *Geoph. J. Int.*, <https://doi.org/10.1093/gji/ggaa300>.

Console, R., Carluccio, Murru, M., Papadimitriou, E., and Karakostas, V. (2020). Physics-based simulation of spatiotemporal patterns of earthquakes in the Corinth Gulf fault system, Submitted for publication on *J. Geophys. Res.*

Kourouklas, C., Console, R., Papadimitriou, E., Murru, M. and Karakostas, V. (2020). Modeling the strong earthquakes recurrence times along the North Aegean Trough Fault Zone (Greece) with a physics-based simulator, Submitted for publication on *Geoph. J. Int.*