

<p>Personal information</p> <p>Surname(s) / First name(s) Selva, Jacopo</p> <p>Telephone(s) +39 0514151457 Mobile: +39 3470970619</p> <p>Email(s) jacopo.selva@ingv.it</p> <p>Nationality(-ies) Italian</p> <p>Date of birth 10/10/1978</p> <p>Place of birth Bologna, Italy</p> <p>Web Site http://www.bo.ingv.it/~selva/</p>	
<p>Scientific interests</p>	<p>Uncertainty treatment in hazard and risk assessments</p> <p>Multi-hazard and multi-risk assessments</p> <p>Probabilistic Volcanic Hazard Assessments (PVHA)</p> <p>Probabilistic Tsunami Hazard Assessments (PTHA)</p> <p>Probabilistic Seismic Hazard Assessments (PSHA)</p> <p>Expert Elicitation</p> <p>Precursory patterns of volcanic eruptions</p> <p>Short and long-term interaction among earthquakes and between earthquakes and volcanic eruptions</p> <p>Serviceability of systems of interdependent components</p>
<p>Education</p> <p>Jan 2002 - May 2005</p> <p>Oct 1997 - Dec 2001</p> <p>Sep 1992 - Jul 1997</p>	<p>Dottorato di Ricerca (Ph.D.) in Geophysics at the University of Bologna. Tematica: Interactions among seismic and volcanic events through stochastic and mathematical modelling. (Supervisore: Marzocchi W).</p> <p>Graduation in Physics cum Laude at the University of Bologna. Focus: Numerical model of interaction among earthquakes at great distances. (Supervisor: E. Boschi, Tutor: Marzocchi W). Votazione: 110/110 e Lode</p> <p>Classical Diploma at Liceo Ginnasio L. Galvani in Bologna (47/60)</p>
<p>Post-Lauream activity</p> <p>Nov 2006</p> <p>Oct 2006</p> <p>Mar 2006</p> <p>Ago 2002</p> <p>Jun 2002- Jun 2003</p>	<p>Participant: 27th Workshop International School of Geophysics "Quantifying long- and short-term volcanic hazard", Erice.</p> <p>Participant: 26th Workshop International School of Geophysics "Earthquake and shaking probabilities: help society to make the right choice", Erice.</p> <p>Participant: Soft-Computing: theory, techniques and applications, held by SICC (Italian Society of Chaos e Complexity') and Politecnico di Milano, Milan.</p> <p>Participant: 22nd Course of the International School of Geophysics EMCSC "Earthquake mechanics, Earth structure and related problems", Erice.</p> <p>Lezioni di PhD: Quantitative Geodynamics, Seismic hazard assessment methods, Measurement and analysis of deformation fields, Inverse theory in seismology, Statistics and data analysis, Partial derivative equations and applications in geophysics, Volcanology, Geomagnetism, paleomagnetism and rocks magnetism, Thermal state of continental crust and consequences on genesis and composition of magmas, Experimental analogical models.</p>

May 2002

Participant: Workshop "Occorrenza e ricorrenza dei terremoti in Italia", Roma.

Jul 2001

Participant: 18th Symposium of the International School of Geophysics "Advances in the assessment of earthquake and volcanic hazard", Erice.

Positions

Job

31 Dec 2014-Present

Permanent Researcher at Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Bologna.

1 Ago 2005-30 Dec 2014

Researcher at Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Bologna.

1 Feb 2005- 31 Jul 2005

Research Grant at Istituto Nazionale di Geofisica e Vulcanologia.

Collaborations

2010 - 2016

External consultant at AMRA (Analisi e Monitoraggio del Rischio Ambientale), Napoli, <http://www.amracenter.com/en/>. Focus: Probabilistic Volcanic Hazard Assessment

Mar 2011 - Jul 2013

Consultant at University Aristotle of Thessaloniki (Greece), Faculty Engineering, Department of Civil Engineering. Topic: Systemic Seismic Vulnerability

Mar 2010-Sep 2010

Guest researcher at the University Aristotle of Thessaloniki (Grecia), Faculty Engineering, Department of Civil Engineering, with Prof. K. Pitilakis. *Topics: Probabilistic assessment of vulnerability for buildings, utilities and infrastructures.*

May 2003 - Jul 2003

Guest Ph.D. student at the Geophysical Research Group of the University of Ulster at Coleraine, Northern Ireland (UK) con *Marco Polo fellowship* funded by the University of Bologna. *Topics: Fault modelling with Cellular Automata and fault interaction.*

Institutional Coordination

20 Feb 2017 - present

Member of the Comitato Direttivo (Steering Committee) as Responsible for development of Hazard quantifications of the Centro di Allerta Tsunami (CAT - Tsunami Warning Center) of INGV (Delibera n.322/2017 del 20/02/2017 C.d.A.; Delibera n. 69/2019 del 16/04/2019 del C.d.A.)

20 Jun 2014- 19 Jun 2017

National Responsible of Sector V3 - Dinamiche e Scenari Eruttivi (eruptive dynamics and scenarios) within the Department Volcanoes of INGV and Representative of the Working Group in Sezione di Bologna (Decreto n. 1 del 20/06/2014 del Direttore della Struttura Vulcani; Decreto n. 10/2014 del 16/04/2014 del Direttore della Sezione di Bologna)

Other institutional activities

2019-2020

Member of Working Group to explore the "current status and best practices for hazard assessment, monitoring and responding to tsunamis from atypical (aerial landslides, submarine landslides, volcanoes) sources", established by TOWS WG Inter-ICG Task Team on Tsunami Watch Operations Intergovernmental Oceanographic Commission, UNESCO (19 – 20 February 2019; Paris, France)

3-5 Dec 2018

Designated Member by the Italian Government to participate to the "Workshop on Testing and Updating Probabilistic Seismic Hazard Analysis on the Basis of Observation" organized by International Atomic Energy Agency (IAEA), EDF Lab Saclay, Palaiseau, France, 3-5 Dec 2018

15-16 Nov 2018

Invited Expert al Joint IOC/UNESCO-ISESCO Workshop "Preparing for the Next Tsunami: Reducing Losses and Damages in the Coastal Western Mediterranean Areas", Rabat, Morocco, 15-16 November 2018.

20-21 Nov 2017

Invited Expert at the Expert Meeting on the Global Risk Assessment, in support to the implementation of the Sendai Framework for Disaster Risk Reduction and the 2030 Agenda for Sustainable Development organized by UNISDR (UN Secretary-General for Disaster Risk Reduction), Palais des Nations in Geneva, Switzerland on the 20-21 November, 2017

Jun 2016- Jun 2018

Member of the Working Group "GTM-INGV" formed to manage the starting phase of the Global Tsunami Model (GTM), established by 13/06/2016 and extended for 2 years (Decreto n. 234 del 13.06.2016 del Presidente)

2015	Coordinator of the Working Group "Aggiornamento della statistica di dispersione delle ceneri in caso di ripresa dell'attività vulcanica ai Campi Flegrei" (Update of the statistics of ash dispersion in case of renewal of the volcanic activity at Campi Flegrei) (Decreto n. 1 del 09/01/2015 del Direttore della Struttura Vulcani)
2015-2016	Member of the Working Group "Aggiornamento delle pianificazioni per l'area vesuviana di cui in G.U. n.75 del 31 marzo 2015" (Update of the INGV planning for the Vesuvius area)) (Decreto n. 3 del Direttore della Struttura Vulcani del 30/06/2015)
Jul 2013- Ago 2017	Member of the Executive Committee (early career representative) of the IAVCEI "Commission on Statistics in Volcanology (COSIV)", elected at the IAVCEI meeting of Kagoshima (20-24 Luglio 2013), in charge for 4 years (up to IAVCEI meeting of Portland, 14-18 Aug 2017).
30 Jan 2013-19 Feb 2017	Technical-scientific Referent for probabilistic methods of the Centro di Allerta Tsunami (CAT - Tsunami Warning Center) of INGV (Decreto n.2/2014 del 30/01/2013 del Direttore del Centro Nazionale Terremoti).
2008-2010	Member of the informal Technical Group DIVO (Database for Italian Volcanoes), developed within DPC-INGV projects Unrest, Paroxysm, Lava e Flank
2007-2010	Member of "WOVOdat Technical Advisory Group", organized by the World Organization of Volcano Observatories (WOVO - IAVCEI) and hosted by the Nanyang University (Singapore)
Surveillance Responsibilities	
Nov 2018 - present	Shift Volcanic Hazard Leader within ARISTOTLE-ENHSP (All Risk Integrated System TOwards Trans-boundary hoListic Early-warning - European Natural Hazards Scientific Partnership - Aristotle2) for consultancy at ERCC (Emergency Response Coordination Centre) of the European Commission
5 Sep 2017	Member of the Working Group Emergenza Ischia (Ischia Emergency) and of Unità di Crisi INGV (Crisis Management Group) formed after the 24 Aug 2017 Earthquake (Disposizione Presidente INGV - Prot. 1899 del 05/09/2017)
Scientific Coordination	
Coordination in Scientific Projects	
Sep 2019-present (3 years)	Work Package leader and Responsible for INGV (WP1: Specific characterization of natural hazards on industrial sites) in the PRIN2017-NaTech project
Dec 2018-present (3 years)	Task leader (Task 4.1 'Hazard Assessment') in the H2020-ChEESA project
Jan 2016- Sep 2018 (1.5 + 0.25 years)	Work Package co-leader (Task B: Hazard Assessment) in the DG-ECHO-TSUMAPS-NEAM project
Nov 2013- Oct 2017 (3 + 1 years)	Task leader in the FP7-EU project 'ASTARTE', http://www.astarte-project.eu/
Oct 2013- Sep 2016 (3 years)	Task Leader and Responsible for INGV in the FP7-EU project STREST, http://www.strest-eu.org/
Jun 2013- May 2016 (3 years)	Sub-Task leader in the FP7-EU project 'MEDSUV', http://www.med-suv.eu/
2010-2014 (3+1 years)	Principal Investigator (Coordinator) of the project "Bayesian Multi-Risk assessment: a case study for natural risks in the city of Naples", funded by FIRB-MIUR (Ministero dell'Istruzione, Università e Ricerca, En: Italian Ministry of Education, Universities and Research), call "Futuro in Ricerca" (En: Future in Research), http://bymur.bo.ingv.it/
2006-2009 (3 years)	Co-responsible for Task 2 (Sep up of a common database) of the Project COVIN (Italy-Indonesia collaboration, INGV-CVGHM), funded by INGV
Coordination within the INGV-DPC (Civil Protection) Agreements	

Apr 2019 - Present (3 years)	Co-responsible of Task 1 - Obiettivo 3 - Attachement B2 2019-2021, "Seismic Tsunami Hazard Map (Mappa di Pericolosità da Tsunami di origine Sismica - MPTS)".
Apr 2019 - Present (3 years)	Co-responsible of Task 2 - Obiettivo 3 - Attachement B2 2019-2021, "Probabilistic Tsunami Forecasting (PTF)".
Feb 2018 - Mar 2019	Co-responsible of Task 3 - Obiettivo 4 - Attachement B2 - 2018 ""Multidisciplinary study to product and consolidate data and knowledge required for seismic and volcanic hazard quantification in the volcanic area of Ischia".
Feb 2018 - Mar 2019	Co-responsible of Task A2 - Obiettivo 5 - Attachement B2 - 2018, "FORECAST probabilistico (PTF) degli TSUNAMI (probabilistic forecast of tsunamis)".
Feb 2018 - Mar 2019	Co-responsible of Task A4 - Obiettivo 5 - Attachement B2 - 2018, "MAPPA DI PERICOLOSITÀ MPTS18 (probabilistic tsunami hazard map)".
Sep 2016-Aug 2017	Responsible of Task C - Obiettivo 4 . Attachement B2 2016, "Reference scenario connected to unrest (earthquakes and landslides) phases and hazard scenarios from volcanic phenomena and related alert levels (to be interpreted as the analysis of the elements useful for Civil Protection for their definition) for emergency plans at the islands of Ischia and Vulcano", and Coordinator of the 2 working groups formed within this task.
Supervision Activity	
Nov 2019-present (3 years)	Tutor of 1 PhD (University of Bologna): Dr. Daniele Arcangeli, topics: Quantification of uncertainty in local tsunami models in the context of multi-hazard and multi-risk applications; PhD Programme: "FUTURE EARTH, CLIMATE CHANGE AND SOCIETAL CHALLENGE" of the University of Bologna
2017-2018	Responsible of the Research Grant: Dr. Alexander Garcia Aristizabal, topics: Uncertainty quantification and multi-source treatment in tsunami hazard and warning
16/11/2014 - 30/04/2015	Responsible of 1 Post-Lauream contract: Marco Cincini, topics: Development of web-tools for elicitation at Campi Flegrei
2014-2016	Responsible for 1 Post-Doc research grant: Dr. Sarfraz M. Iqbal, topics: Treatment of epistemic uncertainty in natural hazard assessment
2014-2017	Co-responsible for 1 Research Grant: Paolo Perfetti, topics: Development of visualization tools for probabilistic hazard and risk analysis
1/12/2010-30/11/2013	Responsible for 1 Post-Doc contract: Dr. Roberto Tonini, topics: Tsunami Hazard and Vulnerability, Multi-Risk software development
Teaching Activity	
Qualifications	
19 Nov 2018-Present	ASN (Abilitazione Scientifica Nazionale) for Associated Processor in Sector 04/A4 - GEOPHYSICS
Classes	
Feb 2020 (8 hours)	Course: course of 52 hours titled "Seismology and seismic risk (Sismologia e Rischio Sismico)", within the curriculum of Master's Degree 'Geological sciences and technologies ("Scienze e tecnologie geologiche)", Department of Physics and Geology, University of Perugia.
Feb 2020 (8 hours)	Thematic Classes for PDD: module of 8 hours titled "From warning to hazard and risk assessment" within a thematic course of 24h organized within the PhD Programme "FUTURE EARTH, CLIMATE CHANGE AND SOCIETAL CHALLENGE" of the University of Bologna.
May 2019 (4 hours)	Didactic Seminar within Graduation Class (Laurea Magistrale): "Probabilistic quantification of hazard and risk (Quantificazione probabilistica della pericolosità e del rischio)" (4 hours) University of Roma 3, Rome, Italy

2017 (4 hours)	Didactic Seminar "Quantificazione delle incertezze nelle stime probabilistiche dei rischi naturali (Quantification of uncertainty in probabilistic risk from natural hazards" (4 hours), University of Perugia, Facoltà di Scienze, 18/01/2017, Perugia.
2015 (~ 6 hours)	Teacher within "NEMOH Network Final School" for the module regarding probabilistic eruption forecast and expert elicitations (approximately 6 hours), Linguaglossa, Catania, 9-14 Nov 2015"
Jan 2015 (4 hours)	Didactic Seminar for PhD: "Quantification of uncertainty in probabilistic estimations of risk from natural hazards (Quantificazione delle incertezze nelle stime probabilistiche dei rischi naturali)" (4 hours), University of Perugia, Faculty of Science, 24/01/2015, Perugia, Italy.
Jun 2014 (4 hours)	Informal Seminar within Graduation Class (Laurea Magistrale): "Quantification of uncertainty in probabilistic estimations of risk from natural hazards: an application to Neapolitan volcanoes (Quantificazione delle incertezze nelle stime probabilistiche dei rischi naturali: un'applicazione ai vulcani napoletani)", Course "Volcanology and Volcanic Risk (Vulcanologia e Rischio Vulcanico)" (4 hours), University of Perugia, Faculty of Science, 21/06/2014, Perugia, Italy.
Lectures	
Feb 2015	Invited keynote lecture "Probabilistic Seismic Hazard Assessment: Combining Cornell-Like Approaches and Data at Sites through Bayesian Inference", CSNI Workshop on Testing PSHA Results and Benefit of Bayesian Techniques for Seismic Hazard Assessment, Hosted by EUCENTRE, Pavia, Italy, 4-6 February 2015
Sep 2013	Invited key lecture "Probabilistic Seismic Hazard Assessment: Combining Cornell-Like Approaches and Data at Sites through Bayesian Inference", Geoitalia 2013, 16-18/09/2013, Pisa (Italy).
Jun 2010	Invited lecture "Uncertainties in hazard/risk assessments", Aristoteleio University of Thessaloniki, Faculty of Engineering, Department of Civil Engineering, 24/06/2010, Thessaloniki, Greece.
Scientific Divulgation	
from 2016	Participation to several meeting organized by the Dipartimento della Protezione Civile (Civil Protection), including the participation to Commissione Grandi Rischi (Great Risk Commission), volcano sector (eg talks on hazards at Ischia, Vulcano) and seismic sector (eg talks on short- and long-term tsunami hazard, application of directions within SiAM - Sistema di Allertamento da Maremoti, revision of tsunami hazard model). The primary goal of this activity was communicate and deepen the scientific bases and advancements for the above scientific products.
2015	Contribute to the book of scientific divulgation "Prevedibile / Imprevedibile, Eventi Estremi nel prossimo futuro (Guidoboni, Mulargia, Teti Eds.), titled "Vulcani prevedibili?" (Volcanoes predictable?)
2015	Article for scientific divulgation for the European Commission about Tsunami Hazard in Europe (Baptista and Selva, European CIIP Newsletter 9(1))
2013	Article for scientific divulgation "CHE SUCCEDE AI CAMPI FLEGREI?" (What is happening at Campi Flegrei?), ISSN 2240-1520 (Selva et al, 2013).
Conference organizations	
Participation to Scientific Committee or Organizing Committee of Conferences and Workshops	
Apr 2017	Organizer of the Workshop "Pericolosità a Ischia e Vulcano" (Hazards at Ischia and Vulcano volcanoes), 30-31/05/2017, Rome, Italy

- Nov 2016 **Co-organizer** of the International Conference "VOBP3: Volcano Observatory Best Practices workshop" on "long-term hazard forecasts" (15-18/11/2016 in Vancouver, WA (USA))
- May 2016 **Co-organizer** of the Annual Convention of the Department Volcanoes of INGV (Palermo, 3-6/5/2016)
- Dec 2014 **Co-organizer** of the Annual Convention of the Department Volcanoes of INGV (Roma, 2-4 Dec 2014)
- Apr 2014 **Workshop convener** "Operational Techniques in Volcanic Hazard Assessment", co-sponsored by EGU and IAVCEI, 24-25/04/2014, Vienna, Austria
- Jan . 2011 **Workshop convener** "MULTI-RISK DAY", Istituto Nazionale di Geofisica e Vulcanologia (http://bymur.bo.ingv.it/frames/0_multiriskday.html), Sezione di Bologna, 25/01/2011, Bologna, Italy.
- Nov 2007 **Workshop convener** IAVCEI Workshop, 18/11/2007 Shimabara (Japan), Eruption Forecasting through the Bayesian Event Tree: Moving from theory to practice with the software package BET_EF, Warner Marzocchi and Jacopo Selva.
- Jul 2007 **Workshop convener** IAVCEI Workshop, 12/7/2007 Perugia, Eruption Forecasting through the Bayesian Event Tree: Moving from theory to practice with the software package BET_EF, Warner Marzocchi and Jacopo Selva.

Convener activity

- Sep 2020 **Session convener** "S35: Tsunamis in Europe and worldwide: Observations, theory and numerical analyses for hazard and risk assessment and risk reduction", 37th General Assembly of the European Seismological Commission, 6-11 September 2020, Corfu, Greece
- May 2020 **Session convener** "S1.21: Volcanogenic tsunamis: generation mechanisms and hazard assessment", Cities on Volcanoes 11, 23-27/05/2020, Heraklion, Greece
- Apr 2018 **Session convener** "NH2.1/GI3.21/GMPV6.3: Volcano Records and Quantification of Volcanic Hazards", EGU General Assembly, 8-13/04/2018, Vienna, Austria
- Apr 2017 **Session convener** "NH2.2/GMPV5.5: Volcano Records and Quantification of Volcanic Hazards (including Sergey Soloviev Medal Lecture)", EGU General Assembly, 23-28/04/2017, Vienna, Austria
- Apr 2016 **Session convener** "NH2.5/GMPV7.6: Volcano Records and Quantification of Volcanic Hazards", EGU General Assembly, 17-22/04/2016, Vienna, Austria
- Jun 2015 **Session convener** "VS10 Probabilistic Volcano Hazard Analysis", 22/06/2015-02/07/2015, IUGG, Prague, Czech Republic
- Jun 2015 **Session convener** "Short-Term Forecasting of Volcanic Hazard: So Far, So Good?", 22/06/2015-02/07/2015, IUGG, Prague, Czech Republic
- Apr 2015 **Session convener** "Methods for Understanding Volcanic Hazards and Risks", NH2 - Volcanic Hazard, 12-17/04/2015, EGU General Assembly, Vienna, Austria
- Dec 2014 **Co-organizer** of the Annual convention of Department Volcano of INGV (2-4/12/2014 in Rome)
- Apr 2014 **Session convener** "Advances in Assessing Short-term Hazard and Risk from Volcanic Unrest or Eruption (co-organized)", NH2 - Volcanic Hazard, 27/04/2014-02/05/2014, EGU General Assembly, Vienna, Austria
- Jul 2013 **Session chair** "Forecasting volcanic hazards I", IAVCEI 2013, Forecasting Volcanic Activity, 20-24/07/2013, IAVCEI, Kagoshima, Japan
- Dec 2012 **Session convener** "Probabilistic Approaches for Tsunami Hazard Assessment", AGU fall meeting, 3-7/12/2012, AGU Fall Meeting, San Francisco, USA.

<p style="text-align: center;">Editorial activity</p> <p style="text-align: center;">Editorial Committee in Scientific Journals or Project Reviews</p>	<p>2020 Guest editor in <i>Frontiers in Earth Science (Geohazards and Georisks)</i>, Research Topic: "From Tsunami Science to Hazard and Risk Assessment: Methods and Models" (Lorito S, Berens J, Lovholt F, Rossetto T, Selva J)</p> <p>2017-2018 Guest editor in <i>Frontiers in Earth Science (Volcanology)</i>, Research Topic: "Volcanic hazard assessment: rising to the challenges of data and model integration" (Lindsay JM, Calder ES, Selva J),</p> <p>2018 Reviewer of project proposal for the Generic Call 2018, for the French National Research Agency (ANR).</p> <p>2016 Reviewer of project proposal for the Human-environment interactions Scientific Evaluation Committee, per la French National Research Agency (ANR), in "Societies face of environmental changes (Axis 5)" and "integrated approaches to sustainable development of territories (Axis 6)".</p> <p>2014-2016 Member of the Working Group for the definition of guidelines for the submission of project proposals for the Department Volcanoes of INGV, and of proposals of refurbishments for the participation of international events and conferences.</p> <p>2014-2016 Reviewer of project proposal for the Department Volcanoes of INGV</p> <p>2014-2016 Evaluation of proposals to cover travel expediences</p> <p>2014 Reviewer of project proposal for the Marsden Fund of the Government of New Zealand (to fund excellent fundamental research in a wide range of fields in the sciences, engineering, the social sciences and the humanities, administered by the Royal Society of New Zealand).</p> <p>2013 Member of the international pool of experts for the evaluation of risk and its extendibility developed in project FP7-KULTRISK</p>
<p style="text-align: center;">Participation to Evaluation Panel and Scientific Revision</p>	<p>from 2017 Member of the Evaluation panel for the selection of 1 Researcher and 2 Technological Researcher (Decreto n. 105/2017, n. 275/2018, n. 240/2019 del Direttore degli Affari Amministrativi e del Personale).</p> <p>from 2010 Member of the Evaluation panel for the selection of 3 Post-Doc grants (Decreto n. 15/2015, n. 14/2014, n. 11/2010 del Direttore della Sezione di Bologna).</p> <p>from 2004 Reviewer for scientific journals (Among the others: <i>Advances in Geosciences</i>, <i>Annals of Geophys</i>, <i>Bull Volcanol</i>, <i>Geophys J Int</i>, <i>J Applied Volcanology</i>, <i>Journal of Earthquake Engineering</i>, <i>J Geophys Res</i>, <i>J Volcanol Geotherm Res</i>, <i>Nat Haz</i>, <i>Nat Hazards Earth Syst Sci</i>, <i>Surveys in Geophysics</i>, <i>Tectonophysics</i>, <i>Terr Atm Ocean Sci</i>).</p>
<p style="text-align: center;">Participation to Scientific Projects</p> <p style="text-align: center;">Projects</p>	<p>2019-present PRIN2017-NaTech: Assessment of Cascading Events triggered by the Interaction of Natural Hazards and Technological Scenarios involving the release of Hazardous Substances (2017CEYPS8), funded by Italian Ministry of Education, University, and Research</p> <p>2018-present Aristotle 2: All Risk Integrated System TOwards Trans-boundary hoListic Early-warning, funded by DG-ECHO</p> <p>2018-present ChEESE: Centre of Excellence for Exascale in Solid Earth, funded by EU-H2020, topic INFRAEDI-02-2018</p>

2018-present	EUROVOLC: Bringing the European volcanological community closer together, funded by EU-H2020
2018-present	Ash-RESILIENCE ("progetto premiale"), funded by MIUR (Ministero dell'Istruzione, Università e Ricerca)
2016-2018	TSUMAPS-NEAM: Tsunami risk assessments and warning systems need Probabilistic Tsunami Hazard Assessment, funded by DG-ECHO
2013-2017	ASTARTE: Assessment, STRategy And Risk reduction for Tsunamis in Europe, funded by EU-FP7.
2013-2016	STREST: Harmonized approach to stress tests for critical infrastructures against natural hazards, funded by EU-FP7.
2013-2016	MEDSUV: MEDiterranean SUPersite Volcanoes, funded by EC-FP7.
2012-2016	National project "RITMARE" (Flagship project), funded by MIUR (Ministero dell'Istruzione, Università e Ricerca), http://www.ritmare.it/
2010-2014	National project "ByMuR - Bayesian Multi-Risk assessment: a case study for natural risks in the city of Naples", funded by FIRB-MIUR (Ministero dell'Istruzione, Università e Ricerca), call "Futuro in Ricerca", http://bymur.bo.ingv.it/
2010-2013	International project "MATRIX", funded by EC-FP7 (in collaboration with AMRA).
2010-2013	International project "SYNER-G", funded by EC-FP7 (in collaboration with AUTH)
2007-2009	International project WOVOdat, endorsed by World Organization of Volcano Observatories (IAVCEI).
2006-2009	Project COVIN (Italy-Indonesia collaboration) and responsible for Task 2, funded by INGV.
2002-2004	National project GNDT (Gruppo Nazionale per la Difesa dei Terremoti) "Revisione dei fondamenti teorici e sperimentali delle stime di hazard a scala nazionale", funded by Dipartimento della Protezione Civile.

INGV-DPC (Civil Protection) Agreements

2019-present	Attachment B2 2019-2021 (Topics: Tsunami hazard and warning)
2019	Attachment A 2019 (Topics: Consulenza in ambito tsunami)
2018	Attachement B2 2018 (Topics: Seismic and Volcanic Hazard for Ischia, Tsunami hazard and warning)
2017	Attachement B2 2017 (Topics: Tsunami hazard and warning)
2016-2017	Attachement B2 2016 (Topics: Volcanic Hazard for Ischia and Vulcano, Tsunami hazard and warning)
2015	Attachement B2 2015 (Topics: Volcanic Hazard at Campi Flegrei)
2014	Attachement B2 2014 (Topics: Volcanic Hazard at Campi Flegrei)
2012-2015	Attachement C, project V1 "Valutazione della pericolosità vulcanica in termini probabilistici", funded by Dipartimento della Protezione Civile.
2012-2015	Attachement C, project V2 "Precursori di eruzioni", funded by Dipartimento della Protezione Civile.
2007-2010	Attachement C, project V3 "LAVA - Realizzazione della mappa di pericolosità da colate di lava all'Etna, e messa a punto di un metodo di aggiornamento dinamico".
2007-2010	Attachement C, project V1 "UNREST - Realizzazione di un metodo integrato per la definizione delle fasi di unrest ai Campi Flegrei".
2005-2007	Attachement C, project V4 "Ideazione, sperimentazione e applicazione di tecniche innovative per lo studio dei vulcani attivi".
2005-2007	Attachement C, project V3 "Ricerche sui vulcani attivi, precursori, scenari, pericolosità e rischio".
2005-2007	Attachment C, project S2 "Valutazione del potenziale sismogenetico e probabilità dei forti terremoti in Italia".

<p>Languages</p> <p>Informatics knowledge</p> <p>Other qualifications</p> <p>Feb 2001-Dec 2001</p>	<p>Italian, mother tongue.</p> <p>English, written and oral, fluent.</p> <p>Greek, written and oral, intermediate.</p> <p>French, written and oral, scholastic.</p> <p>OS: OS-X, unix - linux (Ubuntu), Windows 95/98/2000/xp/vista/7, Ms-dos.</p> <p>Software: Generic Mapping Tools, ArcView, ArcGIS, Quantum GIS, Microsoft Office, Frontpage, LaTeX, Illustrator, Gnuplot, Corel Draw, PaintShopPro, Cimatron (CAD-CAM), etc.</p> <p>Programming: Matlab, Python, Fortran, Visual Basic, php, Javascript, Html, Xml.</p> <p>Collaboration in software development CAD-CAM e PDM (Program Data Management).</p>
<p>Publications</p> <p>Metrics</p> <p>Web of Science</p> <p>Scopus</p> <p>Google Scholar</p> <p>Journal Papers</p> <p>#52</p> <p>#51</p> <p>#50</p>	<p>Citations 825; h-index: 16 (12/02/2020)</p> <p>Citations 1058; h-index: 19 (12/02/2020)</p> <p>Citations 1503; h-index: 21; i10-index: 32 (12/02/2020)</p> <p>Selva J, Bonadonna C, Branca S, De Astis G, Gambino S, Paonita A, Pistolesi M, Ricci T, Sulpizio R, Tibaldi A, Ricciardi A (in press), Multiple hazards and paths to eruptions: a review of the volcanic system of Vulcano (Aeolian Islands, Italy), <i>Earth-Science Reviews</i> 207, 103186, DOI : 10.1016/j.earscirev.2020.103186 - Indexed in Web of Science, Scopus and Google Scholar - Journal Impact Factor (2020): not yet available (2018: 9.530) - Scopus CiteScore (2020): not yet available (2018: 9.54)</p> <p>Grezio A, Cinti FR, Costa A, Faenza L, Perfetti P, Pierdominici S, Pondrelli S, Sandri L, Tierz P, Tonini R, Selva J (in press), Multi-source Bayesian Probabilistic Tsunami Hazard Analysis for the Gulf of Naples (Italy), <i>J Geophys Res: Ocean</i> 125 (2), DOI : 10.1029/2019JC015373 - Indexed in Web of Science, Scopus and Google Scholar - Journal Impact Factor (2020): not yet available (2018: 3.235) - Scopus CiteScore (2020): not yet available (2018: 3.49)</p> <p>Esposito S, Stojadinovic B, Babic A, Dolšek M, Iqbal S, Selva J, Broccardo M, Mignan A, Giardini D (2020) A risk-based multi-level methodology to stress test critical infrastructure systems, <i>Journal of Infrastructure Systems</i>, 26(1): 04019035, DOI: 10.1061/(ASCE)IS.1943-555X.0000520 - Indexed in Web of Science, Scopus and Google Scholar - Journal Impact Factor (2020): not yet available (2018: 1.538) - Scopus CiteScore (2020): not yet available (2018: 2.14)</p>

- #49 Scala A, Lorito S, Romano F, Murphy S, **Selva J**, Basili R, Babeyko A, Herrero A, Hoechner A, Løvholt F, Maesano FE, Perfetti P, Tiberti MM, Tonini R, Volpe M, Davies G, Festa G, Power W, Piatanesi A, Cirella A (2020), Effect of Shallow Slip Amplification Uncertainty on Probabilistic Tsunami Hazard Analysis in Subduction Zones: Use of Long-Term Balanced Stochastic Slip Models, *Pure and Applied Geophysics* 107, 1497-1520, <https://doi.org/10.1007/s00024-019-02260-x>
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2020): not yet available (2018: 1.466)
 - Scopus CiteScore (2020): not yet available (2018: 1.50)
- #48 Argyroudou S, Fotopoulou S, Karafagka S, Pitolakis K, **Selva J**, Salzano E, Basco A, Crowley H, Rodrigues D, Matos JP, Schleiss AJ, Courage W, Reinders J, Cheng Y, Akkar S, Uckan E, Erdik M, Giardini D, Mignan A (2020), A risk-based multi-level stress test methodology: Application to six critical non-nuclear infrastructure in Europe, *Natural Hazards* 100, 595-633, DOI : 10.1007/s11069-019-03828-5
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2020): not yet available (2018: 2.319)
 - Scopus CiteScore (2020): not yet available (2018: 2.64)
- #47 **Selva J**, Acocella V, Bisson M, Costa A, Caliro S, De Martino P, Della Seta M, de Vita S, Federico C, Giordano G, Martino S, Cardaci C (2019), Multiple natural hazards at volcanic islands: a review for the Ischia volcano (Italy), *J Applied Volcanol*, DOI : 10.1186/s13617-019-0086-4
 - Indexed in Scopus and Google Scholar
 - Scopus CiteScore (2019): not yet available (2018: 2.39)
- #46 Paris R, Ulvrova M, **Selva J**, Brizuela B, Costa A, Grezio A, Lorito S, Tonini R (2019), Probabilistic hazard analysis for tsunamis generated by subaqueous volcanic explosions in the Campi Flegrei caldera, Italy, *J Volcanol Geotherm Res*, 379, 106-116, <https://doi.org/10.1016/j.jvolgeores.2019.05.010>
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2019): not yet available (2018: 2.617)
 - Scopus CiteScore (2019): not yet available (2018: 2.57)
- #45 Pallister J, Papale P, Eichelberger J, Newhall C, Mandeville C, Nakada S, Marzocchi W, Loughlin S, Jolly G, Ewert J, **Selva J** (2019), Volcano Observatory Best Practices (VOBP) workshops - A summary of findings and best-practice recommendations, *J Applied Volcanol*, 8:2, <https://doi.org/10.1186/s13617-019-0082-8>
 - Indexed in Web of Science, Scopus and Google Scholar
 - Scopus CiteScore (2019): not yet available (2018: 2.39)
- #44 Volpe M, Lorito S, **Selva J**, Tonini R, Romano F, Brizuela B (2019), From regional to local SPTA: efficient computation of probabilistic inundation maps addressing near-field sources, *Nat. Hazards Earth Syst. Sci.* 19, 455-469, <https://doi.org/10.5194/nhess-19-455-2019>, 2019
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2019): not yet available (2018: 2.883)
 - Scopus CiteScore (2019): not yet available (2018: 3.07)
- #43 Glimsdal S, Løvholt F, Harbitz C, Romano F, Lorito S, Orefice S, Brizuela B, **Selva J**, Hoechner A, Volpe M, Babeyko A, Tonini R, Wronna M, Omira R (2019), A new approximate method for quantifying tsunami maximum inundation height probability, *Pure and Applied Geophysics*, <https://doi.org/10.1007/s00024-019-02091-w>
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2019): not yet available (2018: 1.466)
 - Scopus CiteScore (2019): not yet available (2018: 1.50)
- #42 Pitolakis K, Argyroudou S, Fotopoulou S, Karafagka S, Kakderi K, **Selva J** (2019), Application of stress test concepts for port infrastructures against natural hazards. The case of Thessaloniki port in Greece, *Reliability Engineering and System Safety*, 184, 240-257, DOI: <https://doi.org/10.1016/j.ress.2018.07.005>
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2019): not yet available (2018: 4.039)
 - Scopus CiteScore (2019): not yet available (2018: 5.36)

- #41 **Selva J**, Costa A, De Natale G, Di Vito MA, Isaia R, Macedonio G (2018), Sensitivity test and ensemble hazard assessment for tephra fallout at Campi Flegrei, Italy, *J Volcanol Geotherm Res* 351, 1-28, DOI:10.1016/j.jvolgeores.2017.11.024
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2018): 2.617
 - Scopus CiteScore (2018): 2.57
- #40 Tierz P, Woodhouse MJ, Phillips JC, Sandri L, **Selva J**, Marzocchi W, Odbert HM (2017) A Framework for Probabilistic Multi-Hazard Assessment of Rain-Triggered Lahars Using Bayesian Belief Networks. *Front. Earth Sci.* 5:73. doi: 10.3389/feart.2017.00073
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2018): 2.892
 - Scopus CiteScore (2018): 2.74
- #39 Grezio A, Babeyko A, Baptista MA, Behrens J, Costa A, Davies G, Geist E, Glimsdal S, Gonzales FI, Griffin J, Harbitz C, LeVeque RJ, Lorito S, Lovholt F, Omira R, Mueller C, Paris R, Parsons T, Polet J, Power W, **Selva J**, Sorensen MB, Thio HK (2017), Probabilistic Tsunami Hazard Analysis: Multiple Sources and Global Applications, *Reviews of Geophysics* 55, DOI:10.1002/2017RG000579
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2017): 13.529
 - Scopus CiteScore (2017): 15.83
- #38 Chiodini G, **Selva J**, Del Pezzo E, Marsan D, De Siena L, D'Auria L, Bianco F, Caliro S, De Martino P, Ricciolino P, Petrillo Z (2017), Clues on the origin of post-2000 earthquakes at Campi Flegrei caldera (Italy), *Scientific Reports* 7: 4472, DOI:10.1038/s41598-017-04845-9
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2017): 4.122
 - Scopus CiteScore (2017): 4.36
- #37 Faenza L, Pierdominici S, Hainzl S, Cinti FR, Sandri L, **Selva J**, Tonini R, Perfetti P (2017), A Bayesian Seismic Hazard Analysis for the city of Naples, *Journal of Geophysical Research: Solid Earth*, 122, 1990–2012, doi:10.1002/2016JB013507.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2017): 3.428
 - Scopus CiteScore (2017): 3.78
- #36 Davies G, Griffin J, Lovholt F, Glimsdal S, Harbitz C, Thio HK, Lorito S, Basili R, **Selva J**, Geist E, Baptista MA (2017), A global probabilistic tsunami hazard assessment from earthquake sources, in *Tsunamis: Geology, Hazards and Risks* (Scourse EM, Chapman NA, Tappin DR & Wallis SR Eds), Geological Society, London, Special Publications, 456, <https://doi.org/10.1144/SP456.5>
 - Indexed in Scopus and Google Scholar
 - Scopus CiteScore (2017): 1.64
- #35 Pitolakis K, Argyroudis S, Kakderi K, **Selva J** (2016) Systemic vulnerability and risk assessment of transportation systems under natural hazards towards more resilient and robust infrastructures, *Transportation Research Procedia* 14, 1335-1344, doi:<https://doi.org/10.1016/j.trpro.2016.05.206>
 - Indexed in Scopus and Google Scholar
 - Scopus CiteScore (2017): 0.82
 - Indexed in Google Scholar
- #34 Garcia-Aristizabal A, Caciagli M, **Selva J** (2016), Considering uncertainties in the determination of earthquake source parameters from seismic spectra, *Geophys. J. Int.*, 07 (2): 691-701. doi: 10.1093/gji/ggw303
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2016): 2.414
 - Scopus CiteScore (2016): 2.61

- #33 **Selva J**, Tonini R, Molinari I, Tiberti MM, Romano F, Grezio A, Melini D, Piatanesi A, Basili R, Lorito S (2016), Quantification of source uncertainties in Seismic Probabilistic Tsunami Hazard Analysis (SPTHA), *Geophys. J. Int.* 205, 1780–1803, doi:10.1093/gji/ggw107
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2016): 2.414
 - Scopus CiteScore (2016): 2.61
- #32 Sandri L, Costa A, **Selva J**, Macedonio G, Tonini R, Folch A, Sulpizio R (2016), Beyond eruptive scenarios: tephra fall from Neapolitan volcanoes, *Scientific Reports* 6, Article number: 24271, doi:10.1038/srep24271
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2016): 4.259
 - Scopus CiteScore (2016): 4.63
- #31 Argyroudis S, **Selva J**, Gehl P, Pitilakis K (2015), Systemic seismic risk assessment of road networks in urban areas, *Computer-Aided Civil and Infrastructure Engineering* 30, 524–540, DOI: 10.1111/mice.12136
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2015): 5.288
 - Scopus CiteScore (2015): 4.69
- #30 Marzocchi W, Taroni M, **Selva J** (2015), Accounting for Epistemic Uncertainty in PSHA: Logic Tree and Ensemble Modeling, *Bulletin of the Seismological Society of America*, Vol. 105, No. 4, pp. –, August 2015, doi: 10.1785/0120140131
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2015): 2.311
 - Scopus CiteScore (2015): 2.26
- #29 Lorito S, **Selva J**, Basili R, Romano F, Tiberti MM, Piatanesi A (2015), Probabilistic Hazard for Seismically-Induced Tsunamis: Accuracy and Feasibility of Inundation Maps, *Geophys. J. Int.* 200, 574-588, DOI:10.1093/gji/ggu408
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2015): 2.484
 - Scopus CiteScore (2015): 2.46
- #28 Tonini R, Sandri L, Costa A, **Selva J** (2015), Brief Communication: The effect of submerged vents on probabilistic hazard assessment for tephra fallout, *Nat. Hazards Earth Syst. Sci.*, 15, 409-415, doi:10.5194/nhess-15-409-2015
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2015): 2.277
 - Scopus CiteScore (2015): 2.41
- #27 Grezio A, Tonini R, Sandri L, Pierdominici S, **Selva J** (2015), A comprehensive Probabilistic Tsunami Hazard Assessment: multiple sources and short-term interactions, *J. Mar. Sci. Eng.*, 3, 23-51, DOI:https://doi.org/10.3390/jmse3010023
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2018): 1.732 - oldest available
 - Scopus CiteScore (2018 - oldest available): 1.68
- #26 **Selva J**, Costa A, Sandri L, Marzocchi W (2014), Probabilistic short-term volcanic hazard in phases of unrest: a case study for tephra fallout, *J. Geophys. Res.*, 119(12) 8805-5526 DOI:10.1002/2014JB011252
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2014): 3.426
 - Scopus CiteScore (2014): 3.27
- #25 Rouwet D, Sandri L, Marzocchi W, Gottsmann J, **Selva J**, Papale P (2014), Recognizing volcanic hazards related to non-magmatic unrest: an event tree structure, *J. Applied Volcanology*, 3:17, doi:10.1186/s13617-014-0017-3
 - Indexed in Scopus and Google Scholar
 - Scopus CiteScore (2016 - oldest available): 2.02

- #24 **Selva J**, Sandri L (2013), Probabilistic Seismic Hazard Assessment: Combining Cornell-like approaches and data at sites through Bayesian inference, *Bull. Seism. Soc. Am.* 103(3):1709-1722, DOI: 10.1785/0120120091
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2013): 1.964
 - Scopus CiteScore (2013): 2.28
- #23 Basili R, Tiberti MM, Kastelic V, Piatanesi A, **Selva J**, Lorito S (2013), Integrating geologic fault data into tsunami hazard studies, *Natural Hazards and Earth System Sciences*, 13:1025-1050, DOI: 10.5194/nhess-13-1025-2013
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2013): 1.826
 - Scopus CiteScore (2013): 2.08
- #22 **Selva J**, Argyroudis S, Pitilakis K (2013), Impact on loss/risk assessments of inter-model variability in vulnerability analysis, *Natural Hazards* 67(2): 723-746, DOI: 10.1007/s11069-013-0616-z
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2013): 1.901
 - Scopus CiteScore (2013): 1.94
- #21 **Selva J** (2013), Long-term multi-risk assessment: statistical treatment of interaction among risks, *Natural Hazards* 67(2): 701-722, DOI: 10.1007/s11069-013-0599-9
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2013): 1.901
 - Scopus CiteScore (2013): 1.94
- #20 Garcia-Aristizabal A, **Selva J**, Fujita E (2013), Integration of stochastic models for long-term eruption forecasting into a Bayesian event tree scheme: a basis method to estimate the probability of volcanic unrest, *Bull. Volcanol.* 75:689, DOI: 10.1007/s00445-013-0689-2
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2013): 2.667
 - Scopus CiteScore (2013): 2.74
- #19 Grezio A, Sandri L, Marzocchi W, Argnani A, Gasparini P, **Selva J** (2012), Probabilistic Tsunami Hazard Assessment for Messina Strait Area (Sicily - Italy), *Nat. Haz.*, 64:329-358, ISSN: 2191-5040, DOI: 10.1007/s11069-012-0246-x
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2012): 1.639
 - Scopus CiteScore (2012): 1.76
- #18 **Selva J**, Orsi G, Di Vito MA, Marzocchi W, Sandri L (2012), Probability hazard map for future vent opening at the Campi Flegrei caldera, Italy, *Bull. Volcanol.*, 74, 497-510, DOI:10.1007/s00445-011-0528-2
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2012): 2.653
 - Scopus CiteScore (2012): 2.22
- #17 Brancato A, Gresta S, Sandri L, **Selva J**, Marzocchi W, Alparone S, Andronico D, Bonforte A, Caltabiano T, Cocina O, Corsaro RA, Cristofolini R, Di Grazie G, Distefano G, Ferlito C, Gambino S, Giammanco S, Greco F, Napoli R, Tusa G, Viccaro M (2012), Quantifying probabilities of eruption at a well-monitored active volcano: an application to Mount Etna (Sicily, Italy), *Boll. Geofis. Teor. Appl.*, 53 (1), 55-74, DOI: 10.4430/bgta0040
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2012): 0.646
 - Scopus CiteScore (2012): 0.47
- #16 **Selva J**, Marzocchi W, Papale P, Sandri L (2012), Operational eruption forecasting at high-risk volcanoes: the case of Campi Flegrei, Naples, *J. Applied Volcanology*, 1:5, DOI:10.1186/2191-5040-1-5
 - Indexed in Scopus and Google Scholar
 - Scopus CiteScore (2016 - oldest available): 2.02

- #15 Brancato A, Gresta S, Alparone S, Andronico D, Bonforte A, Caltabiano T, Cocina O, Corsaro RA, Cristofolini R, Di Grazia G, Distefano G, Ferlito C, Gambino S, Giannamano S, Greco F, Napoli R, Sandri L, **Selva J**, Tusa G, Viccaro M (2011), Application of BET_EF at Mount Etna: a retrospective analysis (years 2001-2005), *Ann. Geophys.*, 54, 5, 2011; doi: 10.4401/ag-5346
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2011): 0.567
 - Scopus CiteScore (2011): 0.73
- #14 Marzocchi W, Sandri L, **Selva J** (2010), BET_VH: a probabilistic tool for long-term volcanic hazard assessment, *Bull. Volcanol.*, 72 (6), 705-716, DOI:10.1007/s00445-010-0357-8.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2010): 2.463
 - Scopus CiteScore (2011 - oldest available): 2.21
- #13 **Selva J**, Costa A, Marzocchi W, Sandri L (2010), BET_VH: Exploring the influence of natural uncertainties on long-term hazard from tephra fallout at Campi Flegrei (Italy), *Bull. Volcanol.*, 72 (6), 717-733, DOI:10.1007/s00445-010-0358-7.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2010): 2.463
 - Scopus CiteScore (2011 - oldest available): 2.21
- #12 Lindsay J, Marzocchi W, Jolly G, Constantinescu R, **Selva J**, Sandri L (2010), Towards real-time eruption forecasting in the Auckland Volcanic Field: testing of BET_EF during the New Zealand National Disaster Exercise 'Ruaumoko', *Bull. Volcanol.*, 72 (2), 185-204, DOI:10.1007/s00445-009-0311-9.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2010): 2.463
 - Scopus CiteScore (2011 - oldest available): 2.21
- #11 Marzocchi W, **Selva J**, Cinti FR, Montone P, Pierdominici S, Schivardi R, Boschi E (2009), On the Occurrence of Large Earthquakes: New Insights From a Model based on Interacting Faults Embedded in a Realistic Tectonic Setting, *J. Geophys. Res.*, 114, B01307, doi:10.1029/2008JB005822.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2009): 3.082
 - Scopus CiteScore (2011 - oldest available): 3.03
- #10 Sandri L, Guidoboni E, Marzocchi W, **Selva J** (2009), Bayesian Event Tree for Eruption Forecasting (BET_EF) at Vesuvius, Italy: a retrospective forward application to 1631 eruption, *Bull. Volcanol.*, 71 (7), 729-745, DOI:10.1007/s00445-008-0261-7.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2009): 3.063
 - Scopus CiteScore (2011 - oldest available): 2.21
- #9 Orsi G, Di Vito MA, **Selva J**, Marzocchi W (2009), Long-term forecasting of eruption style and size at Campi Flegrei caldera (Italy), *Earth Planet. Sci. Lett.*, 287, 265-276, doi:10.1016/j.epsl.2009.08.013
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2009): 4.062
 - Scopus CiteScore (2011 - oldest available): 4.25
- #8 Orazi M, Peluso R, D'Auria L, Caputo A, Demartin M, Franceschi D, Delladio A, Budianto A, Gunawan H, **Selva J**, Garcia A, Giudicepietro F, Marzocchi W, Martini M, Surono, Boschi E (2009), Cooperazione Italia-Indonesia: un sistema per il monitoraggio sismologico del vulcano Marapi (Sumatra), *Quaderni di Geofisica*, 73, ISSN 1580-2595.
- #7 Marzocchi W, Sandri L, **Selva J** (2008), BET_EF: a probabilistic tool for long- and short-term eruption forecasting, *Bull. Volcanol.*, 70 (5), 623-632, doi:10.1007/s00445-007-0157-y.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2008): 2.735
 - Scopus CiteScore (2011 - oldest available): 2.21

- #6 Marzocchi W, **Selva J** (2008), Long-Term Influence of Giant Earthquakes: Backward Empirical Evidence and Forward Test, *Bull. Seism. Soc. Am.*, 98, 1102-1112.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2008): 2.199
 - Scopus CiteScore (2011 - oldest available): 2.02
- #5 Lombardi AM, Marzocchi W, **Selva J** (2006) Exploring the evolution of a volcanic seismic swarm: the case of the 2000 Izu islands swarm, *Geophys. Res. Lett.*, 33, L07310, doi:10.1029/2005GL025157.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2006): 2.602
 - Scopus CiteScore (2011 - oldest available): 3.79
- #4 **Selva J**, Marzocchi W (2005), Variations of Southern California seismicity: empirical evidence and possible physical causes, *J. Geophys. Res.*, 110, B11306, doi:10.1029/2004JB003494.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2005): 2.784
 - Scopus CiteScore (2011 - oldest available): 3.03
- #3 **Selva J**, Marzocchi W (2004), Focal parameters, depth estimation and plane selection of the worldwide shallow seismicity with $M_s \geq 7.0$ for the period 1900-1976. *Geochemistry, Geophysics, Geosystems*, 5, Q05005, doi:10.1029/2003GC000669.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2004): 2.570
 - Scopus CiteScore (2011 - oldest available): 3.05
- #2 **Selva J**, Marzocchi W, Zencher F, Casarotti E, Piersanti A, Boschi E (2004), A forward test for the interaction between remote earthquakes and volcanic eruptions: the case of Sumatra (Jun 2000) and Denali (Nov 2002) earthquakes. *Earth Planet. Sci. Lett.*, 226, 3-4, 383-395, doi:10.1016/j.epsl.2004.08.006.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2004): 3.499
 - Scopus CiteScore (2011 - oldest available): 4.25
- #1 Marzocchi W, **Selva J**, Piersanti A, Boschi E (2003), On the long-term interaction among earthquakes: Some insight from a model simulation. *J. Geophys. Res.*, 108, NO. B11, 2538, doi:10.1029/2003JB002390.
 - Indexed in Web of Science, Scopus and Google Scholar
 - Journal Impact Factor (2004): 2.992
 - Scopus CiteScore (2011 - oldest available): 3.03

Chapters & Proceedings:

- #19 Lovholt F, Lorito S, Macias, Volpe M, **Selva J**, Gibbons SJ (2019) "Urgent tsunami computing" The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC19), DOI: 10.1109/UrgentHPC49580.2019.00011
- #18 Lovholt F, Fraser S, Salgado-Galvez, Lorito S, **Selva J**, Romano F, Suppasri A, Mas E, Polet J, Behrens J, Canals M, Papadopoulos GA, Schaefer AM, Zamora N, Chacon S, Wood N, Johnson D, Leonard G, Paris R, Guillas S, Dias F, Baptista MA, Global Trends in Advancing Tsunami Science for Improved Hazard and Risk Understanding (2019), Contributing Paper to GAR 2019, <https://www.preventionweb.net/publications/view/65806>
- #17 Ptilakis K, Argyroudou S, Fotopoulou S, Karafagka S, Kakderi K, **Selva J**, Salzano E, Basco A, Crowley H, Rodrigues D, Matos JP, Schleiss AJ, Courage W, Reinders J, Akkar S, Cheng Y, Uckan E, Erdik M (2018), A MULTI-LEVEL STRESS TEST METHODOLOGY: APPLICATION TO SIX CRITICAL INFRASTRUCTURES IN EUROPE, 16TH EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING, June 18-21, 2018, Thessaloniki, Greece.

- #16 Esposito S, Stojadinovic B, Babič A, Dolšek M, Iqbal S, **Selva J** (2017), Engineering Risk-Based Methodology for Stress Testing of Critical Non-Nuclear Infrastructures (STREST Project), 16th World COnference on Earthquake Engineering, Santiago, Chile
- Indexed in Google Scholar
- #15 K. Pitilakis, S. Fotopoulou, S. Argyroudis, S. Karafagka, K. Kakderi, **J. Selva** (2017), Application of New Stress Test Concepts to Critical Infrastructures. The Case of Thessaloniki Port in Greece, 16th World COnference on Earthquake Engineering, Santiago, Chile
- Indexed in Google Scholar
- #14 Grezio A, Lorito S, Parsons T, **Selva J** (2017), Tsunamis: Bayesian Probabilistic Analysis, in Encyclopedia of Complexity and Systems Science (Ed. R.A. Meyers), Springer, Berlin, Heidelberg. DOI:10.1007/978-3-642-27737-5_645-1
- #13 Tsionis G., S. Argyroudis, A. Babic, M. Billmaier, M. Dolsek, S. Esposito, D. Giardini, I. Iervolino, S. Iqbal, E. Krausmann, J. P. Matos., A. Mignan, K. Pitilakis, E. Salzano, A. J. Schleiss, **J. Selva**, B. Stojadinovic and P. Zwicky (2016), The STREST project: Harmonized approach to stress tests for critical infrastructures against low-probability high-impact natural hazards, Proceedings of the 6th International Disaster and Risk Conference, 28 August - 01 September 2016, Davos, Switzerland
- Indexed in Google Scholar
- #12 Pitilakis K, Argyroudis S, Fotopoulou S, Karafagka S, Kakderi K, and **Selva J** (2016), Risk assessment of critical facilities to moderate and extreme seismic events including tsunami. The case of the harbor of Thessaloniki, 1st International Conf. on Natural Hazards & Infrastructure, 28-30 June, Chania, Greece
- Indexed in Scopus and Google Scholar
- #11 **Selva J** (2015), Vulcani prevedibili? Strategie in corso e incognite, in *Prevedibile / imprevedibile, Eventi estremi nel prossimo futuro* (Guidoboni E, Mulargia F, Teti V, Eds.), Rubettino Editore, Soveria Mannelli, Italy, ISBN-13: 9788849846539, ISBN-10: 8849846533
- #10 Marzocchi W, **Selva J**, Costa A, Sandri L, Tonini R, Macedonio G, Tephra fall hazard for the Neapolitan area (2015), in *Global Volcanic Hazards and Risk* (Loughlin S, Sparks S, Brown S, Jerkins S, Vye-Brown C, Eds.), Cambridge University Press, Cambridge, ISBN: 9781107111752
- #9 Argyroudis S, **Selva J**, Kakderi K, Pitilakis K (2015), Effect of spatial correlations of ground motion intensities in the seismic risk assessment of interconnected life-line networks and transportation infrastructures, 6ICEGE Conference Proceedings, 1-4/11/2015, Christchurch, New Zealand.
- #8 **Selva J**, Marzocchi W, Sandri L, Costa A, Operational Short-term Volcanic Hazard Analysis: Methods and Perspectives (2014), in *Volcanic Hazards, Risks, and Disasters* (Shroder J.F., Papale P., Eds.), Elsevier, Amsterdam, ISBN: 978-0-12-396453-3
- #7 Argyroudis S, **Selva J**, Kakderi K, Pitilakis K (2014) Application to the city of Thessaloniki. In: Pitilakis K, Franchin P, Khazai B, Wenzel H (eds) *SYNER-G: Systemic seismic vulnerability and risk assessment of complex urban, utility, lifeline systems and critical facilities. Methodology and applications*. Geotechnical, Geological and Earthquake Engineering 31, DOI: 10.1007/978-94-017-8835-9_7, Springer Netherlands.
- #6 Kakderi K, **Selva J**, Pitilakis K (2014) Application in the harbour of Thessaloniki. In: Pitilakis K, Franchin P, Khazai B, Wenzel H (eds) *SYNER-G: Systemic seismic vulnerability and risk assessment of complex urban, utility, lifeline systems and critical facilities. Methodology and applications*. Geotechnical, Geological and Earthquake Engineering 31, doi: DOI 10.1007/978-94-017-8835-9_12, Springer Netherlands.
- #5 Pitilakis K, Argyroudis S, Kakderi K, **Selva J**, Sections 1, 2, 8, 9 in *Systemic seismic vulnerability and loss assessment: Validation studies*, eds K Pitilakis and S Argyroudis, ISBN 978-92-79-30840-6, ISSN 1831-9424, doi: 10.2788/16706.

- #4 **Selva J**, Sandri L, Marzocchi W, Papale P (2013), Stima della probabilita' di eruzioni, *Ambiente Rischio Comunicazione*, 5 (CHE SUCCEDE AI CAMPI FLEGREI?), ISSN 2240-1520.
- #3 **Selva J**, Kakderi K, Alexoudi M, Ptilakis K (2011), Seismic Performance of a System of Interdependent Lifeline and Infrastructure Components, 8CUEE Conference Proceedings, March 7-8, 2011, Tokyo Institute of Technology, Tokyo, Japan.
- #2 **Selva J**, Marzocchi W, Lombardi AM (2008), Monitoring the source evolution of volcanic seismic swarms through a Nonstationary ETAS modeling (NETAS) (2008), in *Conception, verification and application of innovative techniques to study active volcanoes*, Ed. Marzocchi W and A. Zollo, ISBN 978-88-89972-09-0.
- #1 Marzocchi W, **Selva J**, Sandri L (2008), Probabilistic Volcanic Hazard Assessment and Eruption Forecasting: The Bayesian Event Tree approach , in *Conception, verification and application of innovative techniques to study active volcanoes*, Ed. Marzocchi W and A. Zollo, ISBN 978-88-89972-09-0.
- Other:**
- #5 Perfetti P, Tonini R, **Selva J**, Faenza L, Grezio A, Sandri L (2018), Management, visualization and comparison of multiple hazards and risk using free software: the ByMuR tool, *Rapp. Tec. INGV*, 397, 2018, ISSN 2039-7941.
- #4 **Selva J**, Costa A, De Natale G, Di Vito MA, Isaia R, Macedonio G (2015), Aggiornamento sulla statistica delle ceneri in caso di ripresa dell'attivita' vulcanica ai Campi Flegrei, 28 February 2015.
- #3 Baptista MA, **Selva J** (2015), FP7 ASTARTE: Assessment, STrategy And Risk Reduction for Tsunamis in Europe. *European CIIP Newsletter*, 9(1), 9-10.
- #2 **Selva J** (2005), Stochastic and Mathematical Modeling of Long-term Interaction among Earthquakes and between Earthquakes and Volcanic Eruptions , *Ph.D. thesis*, Alma Mater Studiorum, University of Bologna, Department of Physics.
- #1 **Selva J** (2001), Interazione tra terremoti a grandi distanze, *Master's degree thesis*, Alma Mater Studiorum, University of Bologna, Department of Physics.

Invited speeches

Invited or Solicited Talks

- May 2020 **Selva J**, Challenges in uncertainty treatment in volcanic hazard analyses, *Cities on Volcanoes 11*, 23-27/05/2020, Heraklion, Greece.
- Jul 2019 **Selva J**, Lorito S, Perfetti P, Tonini R, Romano F, Bernardi F, Piatanesi A, Babeyko A, Volpe M, Pintore S, Mele FM, Amato A, Probabilistic Tsunami Forecast (PTF) for early warning, International CONgress on Industrial and Applied Mathematics (ICIAM) 2019, 15-19 July, Valencia, Spain.
- Apr 2019 **Selva J**, Lorito S, Perfetti P, Tonini R, Romano F, Bernardi F, Piatanesi A, Babeyko A, Volpe M, Pintore S, Mele FM, Amato A, Probabilistic Tsunami Forecasting (PTF) for Tsunami Early Warning operations, EGU General Assembly 2019, 7-12 April, Vienna, Austria. (invited)
- Dec 2018 **Selva J**, Taroni M, Marzocchi W, Use of past data in hazard models: lessons learned in building the recent ensemble seismic and tsunami hazard models for Italy, IAEA-EDF Workshop on the Evaluation of Probabilistic Seismic Hazard Analysis on the Basis of Observations, Saclay (France), 3-5 Dec 2018 (invited)
- Nov 2018 **Selva J**, and the TSUMAPS-NEAM group, Probabilistic Tsunami Hazard Mapping in the NEAM Region: The TSUMAPS - NEAM Project, IOC-ISESCO Workshop on the Tsunami Early Warning and Mitigation System, Rabat (Morocco), 15-16 Nov 2018 (invited)

- Sep 2018 **Selva J**, Cardaci C, Ricciardi A, Acocella V, Bisson M, Bonadonna C, Branca S, Costa A, Caliro S, De Astis G, De Martino P, Della Seta M, de Vita S, Federico C, Gambino S, Giordano G, Martino S, Paonita A, Pistolesi M, Ricci T, Sulpizion R, Tibaldi A, Review of multiple hazards in volcanic islands to enable the management of long-term risks: the cases of Ischia and Vulcano, Italy, Cities on Volcanoes 10, Naples (Italy) 2-7 September 2018 (invited)
- Sep 2018 Chiodini G, Caliro S, Avino R, Cardellini C, De Martino P, **Selva J**, Tamburello G, Repeated episodes of magma degassing at Campi Flegrei cause geochemical anomalies, ground deformation and seismicity, Cities on Volcanoes 10, Naples 2-7 September 2018 (invited)
- Jun 2014 **Selva J**, Lorito S, Basili R, Probabilistic Tsunami Hazard Assessment and its impact on Tsunami Warning, Statistical Geophysics, IMS-APRM 2014 (3rd Institute of Mathematical Statistics Asia Pacific Rim Meeting), 30/06/2014-03/07/2014, Taipei (Taiwan) (invited)
- Jul 2013 Costa A, Folch A, Macedonio G, Sandri L, **Selva J**, New methods of probabilistic hazard assessment of tephra dispersal: application to the Neapolitan area, IAVCEI 2013, Forecasting Volcanic Activity, 20-24/07/2013, Kagoshima, Japan (invited)
- Jul 2013 Sandri L, Marzocchi W, **Selva J**, Papale P, Rouwet D, Short-term eruption forecasting with BET_EF: applications and results, IAVCEI 2013, Forecasting Volcanic Activity, 20-24/07/2013, Kagoshima, Japan
- Jun 2013 **Selva J**, Sandri L, Modello ByMuR: confronto ed interazione tra pericolosità e rischio sismico e vulcanico per la città di Napoli, AIQUA 2013, 19-21/06/2013, Napoli (Italy) (solicited)
- Nov 2011 **Selva J**, and AUTH team, Treatment of uncertainties in the systemic vulnerability assessment, WP5 Workshop, SYNER-G project, 02/11/2011, Bureau de Recherches Géologiques et Minières- Scientific and Technical Centre Orleans, France. (Oral, solicited)
- Dec 2009 **Selva J**, Doumaz F, Reitano D, Troiano A, Vinci S, and the DIVO Consortium, DIVO - Database for Italian Volcanoes, AGU Fall Meeting, 14-18/12/2009 San Francisco (USA), (Oral, invited)
- Nov 2007 Marzocchi W, Sandri L, **Selva J**, Woo G, Integrating Eruption Forecasting and Cost/Benefit Analysis for Decision Making During an Emergency: the Case of BET_EF Applied to Vesuvius in the MESIMEX Experiment, Cities on Volcanoes V, 19-23/11/2007 Shimabara (Japan) (Oral, invited)
- Apr 2007 Marzocchi W, **Selva J**, Cinti FR, Montone P, Pierdominici S, Schivardi R, On the Recurrence of Large Earthquakes: Some Insights From a Model Based on a Realistic Interacting Fault System, EGU General Assembly 2007, 15-20/04/2007 Vienna (Austria) (Oral, solicited)

Other abstracts

> 100 since 2002

Le informazioni contenute nel Presente Curriculum sono rese sotto la personale responsabilità del sottoscritto ai sensi degli artt. 46 e 47 del D.P.R. n. 445/2000, consapevole della responsabilità penale prevista dall'art. 76 del medesimo D.P.R. per le ipotesi di falsità in atti e dichiarazioni mendaci.

Il sottoscritto esprime il proprio consenso al trattamento dei dati personali ai sensi Regolamento (UE) 2016/679 del 27 aprile 2016, così come recepito dal D.Lgs n. 101/2018.

Bologna, 11 February 2020

Jacopo Selva