Nome, Cognome: **PAOLO, TAROLLI**
Data di nascita: 04/04/1975
Codice Fiscale: TRLPLA75D04D284N

PROFESSORE ORDINARIO (L. 240/10)
07/AGRI-04 – Ingegneria Agraria, Forestale e dei Biosistemi
AGRI-04/A – Idraulica Agraria e Sistemazioni Idraulico-Forestali
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SOMMARIO

Paolo Tarolli è **Professore Ordinario** (L. 240/10) di idraulica agraria presso l'Università degli Studi di Padova, docente (nell'ambito dei corsi di laurea magistrale LM-61, LM-69, LM-80) responsabile dei corsi *Water Resources Management* (in inglese) e *Antropocene Paesaggio Acqua e Suolo* (in italiano) e di un modulo del corso *Sustainable resources-efficient food production and processing* (in inglese) e del corso *Sustainable Management of Soil and Water in Viticulture* (in inglese) presso Università di Verona. È membro del **Consiglio Direttivo** della *Scuola Galileiana di Studi Superiori* dell'Università di Padova. Ricopre l'incarico di **Visiting Professor** presso la Dalian University of Technology (Cina) e di **Adjunct Professor** presso la University of Georgia (USA) e Alexandru Ioan Cuza University of Iaşi (Romania). È **Vicepresidente** della 1a Sezione - utilizzazione del suolo e delle acque della Associazione Italiana di Ingegneria Agraria (AIIA) dal 2022 ed è stato **Deputy President** della Natural Hazard division per la European Geosciences Union (EGU) dal 2019 al 2022. È **Executive Editor** della rivista Natural Hazards and Earth System Sciences; **Associate Editor** delle riviste International Soil and Water Conservation Research, Land Degradation & Development, Remote Sensing, e **Editorial Board Member** di altre 8 riviste internazionali indicizzate Scopus e WoS.
I suoi principali interessi di ricerca riguardano l'impiego di dati topografici ad alta risoluzione, ricavati mediante le più recenti tecniche di remote sensing, per una migliore comprensione, anche con approccio modellistico e raccolta di dati di campo, dei processi naturali ed antropici in relazione alla dinamica idrogeomorfologica, toccando tematiche inerenti l'idrologia e i fenomeni di dissesto ed erosivi in ambito agrario e forestale, l'erosione spondale nelle reti di drenaggio agricolo, il ristagno idrico in aree gestite con le tecniche dell'agricoltura conservativa, il rilevamento di canali, argini, reti di drenaggio e la valutazione della loro capacità di invaso in contesto agrario e di bonifica. Ha sviluppato nuovi algoritmi per il riconoscimento automatico e semiautomatico delle forme morfologiche utilizzando la tecnologia lidar e la tecnica di fotogrammetria SfM. Ha condotto sperimentazioni sul campo allestendo plot per la quantificazione del deflusso ed erosione in contesto agricolo collinare e di pianura.
In particolare, la ricerca che ha condotto negli ultimi anni ha fornito, per la comunità scientifica, un progresso significativo nella comprensione delle problematiche dei paesaggi di fronte alle crescenti pressioni antropiche, al degrado dovuto all'abbandono delle terre coltivate, ed al cambiamento climatico. Lo sviluppo di queste tematiche scientifiche ha portato all'instaurarsi di un'articolata relazione con i principali stakeholder nel settore agricolo (ad es. consorzi di tutela dei vini, consorzi di bonifica, federazione degli agricoltori), coordinamento di progetti di ricerca e trasferimento di conoscenze a sostegno dell'agricoltura sostenibile.
Ad oggi è autore di **200 articoli scientifici** (incluse prestigiose riviste *Nature Food*, *Review of Geophysics*, *Science Bulletin*) e **più di 200 presentazioni** a convegni internazionali. È inserito dal 2020 nella lista dei **World Top 2% Scientists** (classifica scienziati più citati elaborata dalla Stanford University in collaborazione con Elsevier). È stato **relatore su invito di 43 presentazioni** a conferenze internazionali (EGU, IGC, AAG, ISPRS, RGS-IBG, AOGS-AGU, Soil Science Society of China) ed in istituti di ricerca internazionali e Accademie straniere di alta qualificazione (fra le quali Princeton University, Nanyang Technological University, Ecole Polytechnique Fédérale de Lausanne, China Academy of Science).
È **Coordinatore** della Commissione Terza Missione del Dip. TESAF dell'Università di Padova. È membro del comitato di valutazione (panel) per i progetti internazionali FTC (Portogallo), FWO (Belgio), NERC (UK), NCN (Polonia), Horizon (EU). È revisore per MIUR, Netherlands Organization for Scientific Research (NWO), National Science Foundation (NSF), International Swiss National Science Foundation (SNSF), National Science Centre (NCN). È membro delle società scientifiche AGU, EGU, BSG, AIIA.

Legnaro (PD), 31 Marzo 2025

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FORMAZIONE

2006 **Dottorato di ricerca**: Gestione Ambientale dei Bacini Idrografici e Tecniche di Rappresentazione del Territorio, con tesi dal titolo *"Metodi per l'analisi integrata della stabilità dei versanti"*, Università degli Studi di Padova
2003 **Esame di Stato**: abilitazione alla professione di dottore agronomo e forestale
2002 **Master 1° livello**: Difesa e Manutenzione del Territorio, con tesi dal titolo "*Impiego di sensori remoti per l'analisi e distribuzione di fenomeni particolarmente intensi sul territorio",* Università degli Studi di Padova
2001 **Laurea**: Scienze Forestali ed Ambientali, con tesi dal titolo "*Utilizzo del Radar Meteorologico per il monitoraggio dei fenomeni meteorologici intensi*", Università degli Studi di Padova

CARRIERA

2022 – presente **Professore Ordinario** (L. 240/10): Dipartimento TESAF, Università di Padova
2020 – presente **Visiting Professor**: Dalian University of Technology, Beijing (China)
2018 – presente **Adjunct Professor**. Alexandru Ioan Cuza University of Iaşi (Romania)
2017 – presente **Adjunct Professor**: University of Georgia (USA)
2017 **Visiting Professor**: Guangzhou University, Beijing (China)
2015 – 2022 **Professore Associato** (L. 240/10): Dipartimento TESAF, Università di Padova
2013 – 2019 **Visiting Professor**: China University of Geosciences, Beijing (China)
2011 – 2014 **Ricercatore**: Dipartimento TESAF, Università degli Studi di Padova
2011 – 2013 **Visiting Professor**: Earth Sci. Dept., National Cheng Kung University (Taiwan)
2011 **Visiting Professor**: School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
2010 **Marie Curie Fellow**: Inst. of Inland Waters, Hellenic Cent. for Marine Res. (Greece)
2012 – 2013 **Professore Aggregato**: Università Politecnica delle Marche
2009 – 2011 **Professore a Contratto**: Università Politecnica delle Marche
2008 **Visiting Scholar**: St. Anthony Falls Laboratory, University of Minnesota, USA
2006 – 2010 **Assegnista di Ricerca**: Dipartimento TESAF, Università degli Studi di Padova
2005 **Visiting Scholar**: Civil and Env. Eng. Dept., Utah State University, USA

ATTIVITÀ DIDATTICA

Insegnamenti in lingua inglese presso Università di Padova

- ***Integrated Watershed Management*** I Università di Padova (6 CFU, 48 ore)
  (LM-73 - Classe delle lauree magistrali in Scienze e tecnologie forestali ed ambientali)
  anni accademici (***13***): 11/12, 12/13, 13/14, 14/15, 15/16, 16/17, 17/18, 18/19, 19/20, 20/21, 21/22, 22/23, 23/24
- ***Water Resources Management*** I Università di Padova (6 CFU, 48 ore)
  (LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)
  anni accademici (***9***): 16/17, 17/18, 18/19, 19/20, 20/21, 21/22, 22/23, 23/24, 24/25
- ***Soil and Water Resources Management*** I Università di Padova (6 CFU, 48 ore)
  (LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)
  anni accademici (***2***): 14/15, 15/16
- ***Sustainable resources-efficient food production and processing*** I Università di Padova (responsabile modulo di 2 CFU, 16 ore)
  (LM-61 - Classe delle lauree magistrali in Scienze della nutrizione umana)
  anni accademici (***4***): 21/22, 22/23, 23/24, 24/25

Insegnamenti in lingua inglese presso Università di Verona

- ***Sustainable Management of Soil and Water in Viticulture*** I Università di Verona (3 CFU, 24 ore)
  (LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)
  anni accademici (***2***): 23/24, 24/25

Insegnamenti in lingua italiana presso Università di Padova

- ***Antropocene, Paesaggio, Acqua, Suolo*** I Università di Padova (6 CFU, 42 ore)
  (LM-80 - Classe delle lauree magistrali in Scienze geografiche)
  anni accademici (***4***): 21/22, 22/23, 23/24, 24/25
- ***Applicazioni GIS in agricoltura*** I Università di Padova (4 CFU, 32 ore)
  (LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)
  anni accademici (***7***): 14/15, 15/16, 16/17, 17/18, 18/19, 19/20, 20/21
- ***Idraulica agraria*** I Università di Padova (6 CFU, 48 ore)
  (LM-69 - Classe delle lauree magistrali in Scienze e tecnologie agrarie)
  anni accademici (***1***): 13/14

Insegnamenti in lingua italiana presso altri atenei italiani

- ***Sistemazioni Idraulico-Forestali*** I Università Politecnica delle Marche (6 CFU, 54 ore)
  (L-25 - Classe delle lauree in Scienze e tecnologie agrarie e forestali)
  anni accademici (***2***): 11/12, 12/13
- ***Sistemazioni Idraulico-Forestali*** I Università Politecnica delle Marche (5 CFU, 45 ore)
  (L-25 - Classe delle lauree in Scienze e tecnologie agrarie e forestali)
  anni accademici (***3***): 08/09, 09/10, 10/11

Insegnamenti in lingua inglese presso atenei internazionali

- ***GIS analysis in lowland agricultural landscapes*** I Guangzhou University, China (16 ore)
  anni accademici (***1***): 17/18
- ***Digital Terrain Analysis*** I China University of Geosciences, China (32 ore)
  anni accademici (***3***): 16/17, 17/18, 19/20
- ***Digital Geomorphology & Statistical Analysis*** I China Univ. of Geosciences, China (32 ore)
  anni accademici (***2***): 13/14, 14/15
- ***Digital Terrain Analysis*** I National Cheng Kung University, Taiwan (50 ore)
  anni accademici (***1***): 13/14

Insegnamenti a Master I e II livello

- ***Cambiamenti Climatici, Dissesto Idrogeologico e Società*** I Università di Padova (5 ore)
  (Master II livello in Progettazione e Valutazione delle Politiche e dei Servizi)
  anni accademici (***7***): 17/18, 18/19, 19/20, 20/21, 21/22, 22/23, 23/24
- ***Modelli digitali del terreno e geomorfometria*** I Università di Padova (2 CFU, 16 ore)
  (Master II livello in GIScience e Sistemi a Pilotaggio Remoto per la gestione integrata del territorio e delle risorse naturali)
  anni accademici (***7***): 15/16, 16/17, 17/18, 18/19, 19/20, 20/21, 21/22
- ***Informazione topografica di dettaglio in supporto alle sistemazioni del terreno*** I Università di Teramo (0.5 CFU, 4 ore)
  (Master I livello in Agricoltura di Precisione)
  anni accademici (***2***): 16/17, 17/18

Progetti di didattica su bandi competitivi

- ***UNIPD-NCKU Joint Summer School*** "Natural Hazards in the Italian Alps" I Università di Padova (6 giorni) *responsabile scientifico e coordinamento didattico*
  anno 2014 (bando di Ateneo International Summer & Winter School 2014)
- ***EGU2013 Summer school*** "Understanting Earth-Surface Processes in the Alpine Environment

from High Resolution Topography" I European Geosciences Union & Università di Padova (6 giorni)
responsabile scientifico e coordinamento didattico
anno 2013 (bando di Ateneo International Summer & Winter School 2013, bando EGU training schools)

ATTIVITÀ DI SERVIZIO AGLI STUDENTI E SUPERVISIONE ASSEGNISTI

Post Dottorato e/o Assegnisti (1 premio)
*Supervisore (**tot.6**):* **Aurora Ghirardelli** (2023-2025); **Wendi Wang** (2023-2026); **Sara Cucchiaro** (2019-2023); **Anton Pijl** (2020-2021); **Eugenio Straffelini** (2019-2021); **Giulia Sofia** (2013-2018) winner EGU Arne Richter Award 2019

Dottorandi (5 premi)
*Supervisore (**tot.13**):* **Yujia Yang** (2024-2027) **Na Mulun** (2023-2026), **Massimiliano Lippa** (2023-2026), **Xue Chenli** (2023-2024) honored PhD student, **Eugenio Straffelini** (2021-2024) winner Best Speaker Award 2021 IGU - International Geographical Union, **Junliang Qiu** (2021-2024), **Wendi Wang** (2020-2023), **Luca Mauri** (2019-2022) winner WASWAC Youth Outstanding Paper Award 2021, **Zhang Qifei** (2018-2021), **Anton Pijl** (2017-2020), **Wenfang Cao** (2017-2019), **Giulia Roder** (2016-2018), **Massimo Prosdocimi** (2014-2017)

*Co-Supervisore (**tot.11**):* **Xiaoqi Li** (2023-2024) at Huazhong Agricultural University, **Siqi Yang** (2023-2024) Beijing Normal University, **Sijia Li** (2023-2024) International Research Center of Big Data for Sustainable Development Goals (CBAS), **Lin Chen** (2021-2022) at Northwest A&F University, **Alessia Giarola** (2021-2023) at University of Pavia, **Jian Luo** (2021-2022) at Sichuan Agricultural University, **Eros Borsato** (2017-2019) winner EGU ECSTS award, **Kamila Pawłuszek** (2017-2019) at Wroclaw University of Environmental and Life Sciences winner best national diploma thesis by Poland "Minister of Development, Labor and Technology", **Jie Xiang** (2015-2018) at China University of Geosciences in Beijing, **Jin Wang** (2014-2018) at Chinese Academy of Science, **Ke Li** (2013-2015) at China University of Geosciences in Beijing

Tesi di laurea magistrali
*Relatore (**tot.60**), Correlatore (**tot.5**)*

ATTIVITÀ DI RICERCA: COORDINAMENTO E PARTECIPAZIONE A PROGETTI

Internazionali (***tot.11***)

2025 – 2029	Eurosion – Horizon EU Project **12,00,000 €** (PI-monitoring node) COORDINATORE E RESPONSABILE STAZIONE MONITORAGGIO ITALIA
2023 – 2028	Platform for Helping small and medium farmers to Incorporate digital Technology for equal Opportunities (PHITO) – Horizon EU Project **5,025,000 €** (PI-WP3) COORDINATORE UNITÀ OPERATIVA
2018 – 2023	*TerrACE* - Terrace Archaeology and Culture in Europe (EU H2020 ERC-AdG) **2,600,000€** (PI - WP1) COORDINATORE UNITÀ OPERATIVA
2016 – 2018	*HighLandDEM* - High-resolution Digital Elevation Models (DEM) in rainfed Mediterranean cultivated Landscapes for long-term monitoring of artificial features with hydrological impact (ENVIMED French cooperation initiative) **18,000€** (PI - WP2) COORDINATORE UNITÀ OPERATIVA
2013 – 2018	Attività di ricerca e rilievi di campo, finalizzati alla mappatura delle criticità di miniere a cielo aperto con impiego di droni, nell'ambito di un progetto di ricerca della China University of Gesciences (P.R. Cina) PARTECIPAZIONE PROGETTO
2011 – 2014	*ARNICA* - Assessment of Risks on transportation Networks resulting from slope Instability and Climate change in the Alps (ERA-NET CIRCLE Mountains) **45,000€** PARTECIPAZIONE PROGETTO
2011 – 2012	Attività di ricerca e rilievi di campo (Val Ferrett, Svizzera) nell'ambito di un progetto di ricerca della École Polytechnique Fédérale de Lausanne (EPFL) (Svizzera) PARTECIPAZIONE PROGETTO
2011 – 2012	Attività di ricerca finalizzata all'impiego dei dati LIDAR per la mappatura automatica di frane (attivate da fenomeni meteorologici intensi) in area montana; progetto di ricerca della National Cheng Kung University (Taiwan) PARTECIPAZIONE PROGETTO
2008 – 2011	*INTERREG IV A Austria-Italy* - Minimal standards for compilation of danger maps like landslides and rock fall as a tool for disaster prevention. PARTECIPAZIONE PROGETTO

2006 – 2008 *FLOODSITE* - Integrated flood risk analysis and management methodologies (EU VI Framework Programme) **267,179€** PARTECIPAZIONE PROGETTO

2006 *INTERREG III A Italy-Slovenia* FRANE – Foreste: Recupero Ambientale Naturalistico Ecologico PARTECIPAZIONE PROGETTO

Nazionali (***tot.16***)

2025 – 2028 Uliveto Smart (CSR Veneto – PAC PSN 2023-2027) **413,600 €** (PI-WP3) COORDINATORE SCIENTIFICO PROGETTO

2025 – 2028 A.Q.U.A. (CSR Veneto – PAC PSN 2023-2027) **487,700 €** (PI-WP3) COORDINATORE UNITÀ OPERATIVA

2025 – 2026 Analisi dell'intrusione del cuneo salino nel litorale laziale (Consorzio di Bonifica Litorale Nord) **43,000 €** (PI) COORDINATORE PROGETTO

2024 – 2025 Analisi dell'intrusione del cuneo salino nel litorale laziale (Consorzio di Bonifica Litorale Nord) **35,000 €** (PI) COORDINATORE PROGETTO

2022 – 2026 Agritech - National Research Centre for Agricultural Technologies **320,000,000 €** (co-PI of WP4.2, Smart climate agriculture and forestry: from sustainable products to the bioeconomy) COORDINATORE UNITÀ OPERATIVA

2019 – 2022 *SOiLUTION SYSTEM* - Innovative solutions for soil erosion risk mitigation and a better management of vineyards in hills and mountain landscapes (PSR Veneto 2014-2020) **450,000 €** (co-PI & PI - WP1) COORDINATORE SCIENTIFICO PROGETTO

2021 – 2024 Analisi e gestione sostenibile delle risorse idriche e del suolo in agricoltura, *Consorzio di Bonifica di II grado Lessinio Euganeo Berico* **25,000 €** (PI) COORDINATORE PROGETTO

2019 – 2022 *FITOCHE* - From field to cheese (PSR Veneto 2014-2020) **300,000 €** (PI - WP4) COORDINATORE UNITÀ OPERATIVA

2018 – 2021 *ViTe* - Vineyard Terraced landscapes: understanding the Environmental constraints to improve sustainable managements (Univ. di Padova) **60,000€** (PI), COORDINATORE PROGETTO

2017 "Mapping the physical imprint of social change across Italian landscapes in three dimensions using advanced remote sensing" (Fondazione Cassa di Risparmio di Padova e Rovigo – bando Visiting Professor) (PI), COORDINATORE PROGETTO

2015 – 2017 CPDR147412/14 - Artificial drainage networks evolution in a reclamation area of Veneto floodplain: evaluation of the NSI index (Univ. di Padova) **46,666€** (PI), COORDINATORE PROGETTO

2014 – 2020 *NIP* - New industrial plan for dairy sector (POR FESR – Regione del Veneto) **608,024€** PARTECIPAZIONE PROGETTO

2012 – 2013 CPDR122903/12 - Impiego della topografia ad alta risoluzione per la definizione automatica di elementi geometrici della rete idrografica (Univ. di Padova) **22,946€** (PI), COORDINATORE PROGETTO

2011 – 2013 *GRIMICID* - Gestione della Rete Idrica Minore per il Controllo dell'Inquinamento da Diserbanti (PSR Veneto 2007 – 2013) **170,000€** PARTECIPAZIONE PROGETTO

2006 PRIN2005 – Rete nazionali di bacini sperimentali per il monitoraggio e la modellazione dei fenomeni di dissesto PARTECIPAZIONE PROGETTO

2005 Progetto d'Ateneo 2005 – Analisi e modellazione della produzione di sedimento da franamento superficiale in bacini forestali alpini (Univ. di Padova) PARTECIPAZIONE PROGETTO

PARTECIPAZIONE A COMITATI EDITORIALI RIVISTE INTERNAZIONALI

Attualmente membro del comitato editoriale di ***tot.14*** riviste internazionali indicizzate Scopus e Web of Science, con i seguenti ruoli:

2024 – present **Editorial Board Member**: Science of the Total Environment
2023 – present **Editorial Board Member**: Cell Reports Sustainability
2023 – present **Editorial Board Member**: Evolving Earth
2023 – present **Editorial Board Member**: The Innovation Geoscience
2023 – present **Editorial Board Member**: Pirineos (CSIC)
2022 – present **Editorial Board Member**: Revista de la Facultad de Ciencias Agrarias
2022 – present **Associate Editor**: Int. Soil and Water Conservation Research
2020 – present **Editorial Board Member**: Geography and Sustainability
2018 – present **Executive Editor**: Natural Hazards and Earth System Sciences
2018 – present **Associate Editor**: Land Degradation & Development
2018 – present **Editorial Board Member**: iScience
2017 – present **Associate Editor**: Remote Sensing
2014 – present **Editorial Board Member**: Earth Surface Processes and Landforms

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2014 – present	**Editorial Board Member**: Journal of Mountain Science
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2021 – 2022	**Editorial Board Member**: Int. Soil and Water Conservation Res.
2019 – 2023	**Editorial Board Member**: Heliyon
2017 – 2022	**Editorial Board Member**: Quaternary
2015 – 2023	**Editorial Board Member**: Anthropocene
2014 – 2018	**Editorial Board Member**: Land Degradation & Development
2012 – 2018	**Editorial Board Member**: NHESS

COMITATI DI VALUTAZIONE E REVISIONE PROGETTI/RIVISTE

Membro comitato di valutazione progetti internazionali

2025	**Fundação para a Ciência e a Tecnologia FTC** (Portugal)
2024	**Horizon EU** PRIMA (*tot.1 project evaluated*)
2021 – 2024	**Fundação para a Ciência e a Tecnologia FTC** (Portugal) *(tot.46 projects evaluated)*
2021 – 2024	**National Science Centre NCN** (Poland) *(tot.56 projects evaluated)*
2020 – 2021	**Research Foundation Flanders FWO** (Belgium) *(tot.10 projects evaluated)*
2020 – 2021	**Fundação para a Ciência e a Tecnologia FTC** (Portugal) *(tot. 4 projects evaluated)*
2018	**NERC**: Newton Fund (United Kingdom) *(tot. 7 projects evaluated)*

Membro comitato di valutazione premi internazionali

2024	**Youth Paper Award 2021** (World Association of Soil and Water Conservation)
2021	**Youth Paper Award 2021** (World Association of Soil and Water Conservation)
2019 – 2022	**ECS award EGU Natural Hazards Division** (EGU)

Revisore progetti di ricerca internazionali e nazionali

2013 – presente (***tot.19*** *progetti revisionati: 16 internazionali, 3 nazionali*): MIUR, Ministry of Education and Science (Republic of Kazakhstan), U.S. National Science Foundation (NSF), Netherlands Organization for Scientific Research (NWO), National Science Centre (NCN) of Poland, Natural Sciences and Engineering Research Council of Canada, Swiss National Science Foundation (SNSF), FWF Austrian Science Fund, EU Commission, Università di Sassari

Membro comitato valutazione concorso in Università

2020 – now (***tot.20*** *posizioni attivate):* 7 postdottorati, 8 Ricercatore di tibo A e B, 4 tenure track per Professore Associato, 1 tenure track per Professore Ordinario

PREMI/AWARD E RICONOSCIMENTI

International

2023	**Distinguished Extensionist Award,** World Association of Soil and Water Conservation
2022	**Top Cited Article Award**, journal *Geography and Sustainability* (Elsevier)
2021/22	**Best Editor Award**, journal *Geography and Sustainability* (Elsevier)
2020 – now	**World top 2% most cited scientists** (top 0.16% in the category geological & geomatics engineering excluding self-citations) (*Elsevier*, by *Scopus*)
2017	**Outstanding Editor** *Journal of Mountain Science* (Chinese Academy of Sciences)
2014	**Top Cited Article Award**, journal *Anthropocene* (Elsevier)
2011	**Editors' Citation** for Excellence in Refereeing for WRR given by AGU
2010	**Outstanding Reviewer** for the *Journal of Hydrologic Engineering*, ASCE

National

2012	**Best Poster Award –** XXXIII Italian Conference of Hydraulics and Hydraulic Constructions
2010	**Best Poster Award –** XXXII Italian Conference of Hydraulics and Hydraulic Constructions

COMITATI SCIENTIFICI E ORGANIZZAZIONE CONVEGNI/WORKSHOP

Membro Comitato Scientifico (***tot.16****: 13 internazionali, 3 nazionale*)

2025 13th Italian Society of Agricultural Engineering (AIIA) Conference in Reggio Calabria
2024 Institute of Mountain Science, CAS in Chendu (China)
2024 Italian Society of Agricultural Engineering (AIIA) Mid-Term Conference in Padova
2022 12th Italian Society of Agricultural Engineering (AIIA) Conference in Palermo
2021 AOGS-EGU Joint Conference on New Dimensions for Natural Hazards in Asia
2020 AOGS-EGU Joint Conference on New Dimensions for Natural Hazards in Asia
2015/16/17/18/19/20 European Geosciences Union General Assembly – Science Officer Natural Hazard Division (***tot.6*** *convegni*)
2016/17/18/19 European Geosciences Union General Assembly – Committee Chair Soil System Science Division SSS11 (***tot.4*** *convegni*)

Organizzatore convegni/workshop (***tot.38****: 37 internazionali, 1 nazionale*)

2021 Presidente Comitato Organizzatore **–** Int. **Forum** *Land Degradation, Soil Conservation and Sust. Development - LASOSU*. Convegno organizzato da World Association of Soil and Water Conservation, Associazione Italiana di Ingegneria Agraria, Soil and Water Conservation Society in China, Università di Padova, Dalian University of Technology)(500 partecipanti)
2021 Organizzatore e moderatore – **Ciclo di 24 seminari**, per ricercatori e studenti, liberi professionisti ed enti, inerenti "Idraulica Agraria e le Sistemazioni Idrauliche nelle applicazioni agro-ambientali (evento 1a sezione dell'Associazione Italiana Ingegneria Agraria co-organizzato con Dip. TESAF-UNIPD, Università di Perugia, Università della Basilicata) (media per seminario 50 partecipanti in Zoom)
2020 Presidente Comitato Organizzatore **–** Int. **Workshop** on "*Remote Sensing for land degradation analysis and sustainable management of agroforestry systems*". Convegno internazionale organizzato da Associazione Italiana di Ingegneria Agraria - AIIA)(400 partecipanti)
2017 **Workshop** for young geomorphologists: "*Short course in geomorphometry: Getting the most out of DEMs of Difference*", European Geosciences Union General Assembly 2017 (evento co-organizzato con Tobias Heckmann e Wolfgang Schwanghart)
2016 **Workshop** for young geomorphologists: "*Digital Terrain Analysis of Anthropogenic Landscapes*", European Geosciences Union General Assembly 2016 (evento co-organizzato con Tobias Heckmann e Wolfgang Schwanghart)
2015 **Workshop** for young geomorphologists: "*Quantitative interrogation of high-resolution DTMs*", European Geosciences Union General Assembly 2015 (evento co-organizzato con Tobias Heckmann e Wolfgang Schwanghart)

- European Geosciences Union *(**tot.30** sessioni organizzate come convener e chairman)*

EGU2022, SSS11.11/GM8 " New challenges in measuring geomorphological dynamics and estimating erosion rates in badland areas"
EGU2021, NH6.7 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"
EGU2021, SSS11.1/GI6.6 "Development of New Technologies in Soil Conservation and Eco Sustainability",
EGU2020, EBM7 "Editorial board meeting of Natural Hazards and Earth System Sciences (NHESS)"
EGU2020, NH6.1/GM2.24 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"
EGU2020, SSS11.4 "Development of new technologies in soil conservation and eco sustainability"
EGU2019, NH6.1/GI3.20/HS11.38 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"
EGU2019, SSS12.3 "New technologies in soil conservation and eco-sustainability: supporting decision making"
EGU2018, HS2.2.3 "Lowlands: A hydrologic challenge in the global environmental change era"
EGU2018, NH6.1/AS5.21/CR7.3/GI2.17/HS11.33/SM3.12/SSS13.54 "Application of remote sensing and Earth-observation data in natural hazard and risk studies"
EGU2018, NH9.4 "Natural hazard impacts on technological systems and infrastructures"
EGU2018, SSS2.3/GM6.11/NH11.2 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"
EGU2017, GM13.1/SC1 "Short course in geomorphometry: Getting the most out of DEMs of Difference"
EGU2017, HS2.2.3 "Lowlands: A hydrologic challenge in the global environmental change era"
EGU2017, NH3.12 "Landslide and Landslide Susceptibility Interactions with Transport Lines"
EGU2017, SMP48 "Subdivision SSS12: Material and Methods in Soil Science (public)"
EGU2017, SSS2.16/GM7.7/HS11.50 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"
EGU2017, SSS10.8/BG9.6/HS9.11 "Soil Erosion, hydrological processes and biological degradation in worldwide vineyards"

EGU2016, GM6.1/BG7.5/HS11.13/SSS2.22 "Human-Landscape interaction in the Anthropocene"
EGU2016, GM13.1/SC10/SSS12.25 "Digital Terrain Analysis of Anthropogenic Landscapes"
EGU2016, SSS2.10/GM6.8/HS11.29/NH3.19 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"
EGU2015, GM4.1 "Human-Landscape interaction in the Anthropocene"
EGU2015, GM11.3/SC48 "Quantitative interrogation of high-resolution DTMs"
EGU2015, SSS2.5/GM6.6/HS12.3 "Agricultural terraces of the world. Their pedological, geomorphological and hydrological role"
EGU2014, GM2.1 "Digital Landscapes: Insights into geomorphological processes from quantitative interrogation and use"
EGU2014, GM4.1/HS9.12/SSS9.18 "Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction (co-organized)"
EGU2013, GM2.1 "Digital Landscapes: Insights into geomorphological processes from high-resolution topography, quantitative interrogation and geomorphological mapping"
EGU2013, GM4.2/SSS6.12 "Landscape in the Anthropocene: state of the art and future directions"
EGU2012, GM2.2 "Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes"
EGU2011, GM2.2/NH10.3/PS10.2 "Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes"

- American Geophysical Union *(**tot.4** sessioni organizzate come convener e chairman)*

AGU2024, Nature Based Solutions to ensure food and water security in arid region
AGU2020, INV12 - Earth, Agriculture, and Society: Toward Sustainable Development in the Anthropocene
AGU2018, Fingerprinting the Anthropocene: Observing and Understanding Social Change Across Earth's Landscapes
AGU2007, H43E/H51L/H52E Remotely Sensed DTMs for Hydrogeomorphic Applications

ATTIVITÀ ISTITUZIONALI, ORGANIZZATIVE E DI SERVIZIO

Partecipazione e/o coordinamento commissioni in Dipartimento/Scuola/Ateneo

Attuale

2022 – presente	**Membro Consiglio Direttivo** della *Scuola Galileiana di Studi Superiori* dell'Università di Padova
2019 – presente	**Coordinatore Commissione Terza Missione** del Dip. TESAF dell'Università di Padova
2017 – presente	**Coordinatore Scientifico** del Memorandum of Understanding tra China University of Geosciences e Università di Padova.
2012 – presente	**Membro del Collegio Docenti** Scuola di Dottorato di Ricerca L.E.R.H. (Land Environment Resources and Health), Università di Padova

Passato

2019 – 2022	**Coordinatore Commissione Terza Missione e Comunicazione** del Dip. TESAF dell'Università di Padova
2019 – 2022	**Membro della Commissione Paritetica** docenti – studenti della Scuola di Ateneo di Agraria e Medicina veterinaria, Università di Padova
2018 – 2023	**Promotore** della co-tutela di dottorato tra China University of Geosciences e Università di Padova
2017 – 2022	**Coordinatore Scientifico** del Memorandum of Understanding tra Massey University (NZ), University of Lincoln (UK) e Università di Padova.
2015	**Membro Comitato Tecnico Organizzatore CTO** del corso di Laurea Magistrale Sustainable Agriculture (LM-69)
2012 – 2019	**Membro della Commissione** internazionalizzazione del Dip. TESAF, Università di Padova.
2012 – 2015	**Membro della Commissione** di valutazione della ricerca VQR del Dip. TESAF, Università di Padova.
2014	**Coordinatore e PI:** UNIPD-NCKU (Italy-Taiwan) Joint Summer School 2014 "Natural Hazards in the Italian Alps"
2013	**Coordinatore e PI:** EGU Summer School 2013 "Understanding Earth-Surface Processes in the Alpine Environment from High Resolution Topography"

Membro commissione esame finale dottorato

2011 – presente *(**tot.5** commissioni: 3 internazionali, 2 nazionali)*: Montpellier SupAgro - INRA (France); Ecole Polytechnique Fédérale de Lausanne (Switzerland); Ecole Nationale Supérieure des Mines de Saint-Etienne, Alès (France); Università di Trieste (Italy); Università di Genova (Italy).

Attività Terza Missione Dipartimento/Ateneo

Eventi pubblici (***tot.9***)

2024 **Organizzatore & Moderatore:** Uomo, Terra e Clima: viaggio nell'Antropocene alla scoperta delle sfide globali (Museo della Natura e dell'Uomo, Università di Padova)
(tot. 50 partecipanti, studenti)

2024 **Organizzatore & Moderatore:** Clima e Agricoltura – Progetti per l'adattametno di cambiametni climatici nel mondo agricolo - Consorzio Bacchiglione e Università di Padova
(tot. 60 partecipanti, ingegneri, sindaci, politici, amministratori)

2023 **Organizzatore & Moderatore:** Uomo, Terra e Clima: viaggio nell'Antropocene alla scoperta delle sfide globali (Museo della Natura e dell'Uomo, Università di Padova)
(tot. 80 partecipanti, studenti)

2023 **Organizzatore & Docente:** corso uso droni (Coldiretti Padova/Vicenza & Università di Padova)
(tot. 40 partecipanti, imprenditori agricoli)

2023 **Organization & moderator:** cambiamenti climatici e strategie per la gestione della risorsa idrica in agricoltura (Consorzio Garda DOP & Università di Padova)
(tot. 40 partecipanti, imprenditori agricoli, cittadini)

2021 **Organizzatore & Moderatore:** "Biodiversità parola chiave di sostenibilità", Festival Sviluppo Sostenibile 2021 (Dip. TESAF, Università di Padova)
(tot. 28 partecipanti, 386 visualizzazioni Facebook)

2021 **Organizzatore & Moderatore:** ciclo di 24 seminari, per ricercatori e studenti, liberi professionisti ed enti, inerenti "Idraulica Agraria e le Sistemazioni Idrauliche nelle applicazioni agro-ambientali (1a sezione dell'Associazione Italiana Ingegneria Agraria – AIIA con Dip. TESAF-UNIPD, Università di Perugia, Università della Basilicata) *(media per seminario 50 partecipanti in Zoom)*

2020 **Organizzatore & Moderatore:** "Cambiamenti climatici e foreste: una sfida per la sostenibilità", Festival Sviluppo Sostenibile 2020 (Dip. TESAF, Università di Padova)
(tot. 151 partecipanti, 1295 visualizzazioni Facebook, 247 visualizzazioni Youtube)

2020 **Organizzatore con Consorzio Tutela Vini Soave:** convegno "La tutela attiva della Val d'Alpone", In occasione dell'inaugurazione della 2° Fiera dei Prodotti Agricoli della Val d'Alpone e Val Tramigna (Dip. TESAF e Consorzio Soave)
(partecipazione 7 sindaci, associazioni di categoria, liberi professionisti, cittadini)

Social media (***tot.4** pagine amministrate*)

2019 – presente Amministratore ed Editor della pagina del *Dip. Territorio e Sistemi Agro-Forestali TESAF*

ATTIVITÀ DI SERVIZIO SOCIETÀ SCIENTIFICHE

2022 – presente **Vice Presidente** 1a sezione (*utilizzazione del suolo e delle acque*), Associazione Italiana Ingegneria Agraria (AIIA)
2019 – 2022 **Deputy President** Natural Hazards Division, European Geosciences Union (EGU)
2018 – 2021 **Vice Presidente** 7a sezione (*tecnologie informatiche e della comunicazione*), Associazione Italiana Ingegneria Agraria (AIIA)
2016 – 2019 **Committee Chair**, European Geosciences Union SSS subdivision *SSS12: Material and Methods in Soil Science*
2015 – 2020 **Science Officer**, European Geosciences Union NH subdivision *NH6: Remote Sensing & Hazards*

Affiliazione **|** Assoc. Italiana Ingegneria Agraria AIIA (2012-), British Society for Geomorphology (2011-), European Geosciences Union (2006-), American Geophysical Union (2005-)

Social media (***tot.5** pagine amministrate*)

2020 – presente Amministratore ed Co-Editor della pagina della *Associazione Italiana Ingegneria Agraria (AIIA)*
2019 – presente Amministratore ed Co-Editor della pagina della *EGU NH Division*
2018 – presente Co-Editor della pagina della rivista *NHESS*

Legnaro (PD), 31 Marzo 2025

PRINCIPALI COLLABORAZIONI INTERNAZIONALI

Ciprian Margarint, *geomorphology and hazards*, Alexandru Ioan Cuza University of Iasi (Romania)
Edward Park, *seawater intrusion in river deltas*, Nanyang Technological University (Singapore)
Federico Preti, *soil and water conservation*, University of Florence (Italy)
Jean-Stéphane Bailly, *remote sensing analysis of agricultural landscapes*, AgroParisTech (France)
Jian Luo, *soil micromorphology & soil salinity*, Inner Mongolia University (China)
Marco Cavalli, *Earth surface processes analysis*, CNR Irpi Padova (Italy)
Nunzio Romano, *surface runoff in agriculture*, University of Naples Federico II (Italy)
Tony Brown, *agricultural terraces & cultural landscapes,* UiT The Artic University of Norway (Norway)
Xiangzhou Xu, *soil and water conservation*, Dalian University of Technology (China)
Wei Zhao, *remote sensing climate change on vegetation*, China Academy of Sciences (China)
Wenwu Zhao, *geography and sustainability*, Beijing Normal University (China)

PRESENTAZIONI SU INVITO

*Invited talk a Convegni scientifici internazionali di alto impatto (**tot.16**, incl. 4 keynote)*

2022 *Steep-Slope Agriculture: Threats under climate change scenarios*. International Meeting of American Society of Agronomy, Crop Science Society of America, Soil Science Society of America 2022, Baltimore (USA)
2022 *Advanced remote sensing techniques to monitor steep-slope viticulture under climate change scenarios*. 2022 IEEE International Workshop on Metrology for Agriculture and Forestry, Perugia (Italy)
2022 *Steep-Slope Viticulture and Climate Change: Threats, Monitoring, Sustainable Management*. International Workshop on Soil Erosion and Riverine Sediment in Mountainous Regions. Shaanxi (China)
2022 *Steep-Slope Viticulture and Climate Change: Threats, Monitoring, Sustainable Management*. VII International Congress on Mountain and Steep Slope Viticulture, 2022 (Portugal) *Keynote talk*
2021 *Landslides in steep-slope agricultural landscapes.* Fifth World Landslide Forum in Kyoto, 2020 (Japan)
2021 *Earth, Agriculture, and Society: towards sustainable development in the Anthropocene*. International Forum on Land Degradation, Soil Conservation and Sustainable Development 2021 (LASOSU2021), online, Dalian (P.R. China).
2021 *The Geomorphology of Life.* EGU General Assembly 2021 (vEGU21).
2021 *Advanced remote sensing techniques for monitoring anthropogenic landscapes.* EGU General Assembly 2021 (vEGU21).
2019 *High resolution geomorphologic characterization of conservation agriculture.* General Assembly 2019 of the Soil Science Society of China, Dalian (P.R. China).
2018 *Observing and understanding the impact of socio-economic change on Earth and human health.* Water and Planetary Health: A Catchment Systems Approach symposium - University of Lincoln, Lincoln (UK).
2017 *The geomorphology of humanity.* The 33rd Romanian Symposium of Geomorphology, Iasi (Romania). *Keynote talk*
2016 *Roads and agricultural terraces in the mountain areas of the world: their geomorphological and hydrological role.* The 33rd International Geographical Congress, Beijing (P.R. China). *Keynote talk*
2016 *Hillslope Processes in Anthropogenic Landscapes.* AAG 2016, San Francisco (USA).
2015 *High-resolution topography for understanding Earth surface processes: Opportunities and challenges.* ISPRS Geospatial Week 2015, Montpellier (FR). *Keynote talk*
2015 *Geomorphology & Anthropocene.* RGS-IBG Annual International Conference, Exeter (UK).
2012 *Opportunities and challenges from high-resolution topography for understanding earth surface processes*. AOGS – AGU (WPGM) Joint Assembly 2012, Singapore.

*Accademie internazionali, nazionali e istituti di ricerca di alta qualificazione (**tot.27**)*

2024 *Steep-slope agriculture: environmental challenges, monitoring, sustainable management*. Nanyang Technological University (Singapore). (host: Earth Observatory of Singapore)
2024 Nature Based Solutions for soil and water conservation under extremization of global warming. *Institute of soil and water conservation (ISWC)* (Yangling, China)
2022 *Climate Change: is viticulture under threats? New perspectives.* National University of Cuyo (Argentina). (host: Facultad de Ciencias Agrarias)

2021 *Surface ponding in lowland landscapes – monitoring and management, towards sustainable agriculture*. Beijing Normal University (P.R. China). (host: College of Water Sciences)
2021 *Forest and agricultural roads – mass movements, drainage systems, monitoring and sustainable planning*. Beijing Normal University (P.R. China). (host: College of Water Sciences)
2021 *Steep-Slope Agricultural Landscapes: Threats, Monitoring, Sustainable Management*. University of Twente (NL). (host: Dept. of Earth Systems Analysis)
2021 *The Geomorphology of Life*. Università di Perugia (Italy). (host: Dip. di Fisica e Geologia)
2020 *Digital terrain analysis for soil and water conservation*. Dalian University and Technology (P.R. China). (host: Xiangzhou Xu)
2020 *Monitoring and sustainable management of steep-slope agricultural landscapes: the case study of Italy*. Beijing Normal University (P.R. China). (host: Chengzhong Pan)
2019 *Landscapes in the Anthropocene.* Tongji University (P.R. China). (host: Chen Kangli)
2019 *Humans and the Earth's Surface*. Princeton University (USA). (host: Amilcare Porporato)
2019 *High-resolution topography for understanding Earth surface processes: opportunities and challenges*. Dalian University and Technology (P.R. China). (host: Xiangzhou Xu)
2017 *The Topographic Signature of Humanity*. Beijing Normal University (P.R. China). (host: Wenwu Zhao)
2016 *Earth surface processes in anthropogenic landscapes*. Guangzhou University (P.R. China). (host: Wu Zhifeng)
2015 *High-resolution topography for understanding Earth surface processes: opportunities and challenges*. Innsbruck Summer School of Alpine Research 2015. (host: University of Innsbruck, Faculty of Geo- and Atmospheric Sciences & International Society for Photogrammetry and Remote Sensing - ISPRS)
2015 *Anthropogenic Landscapes: critical issues and future challenges for Earth Science and Society*. Massey University (New Zealand). (host: Ian Fuller)
2014 *Anthropogenic Landscapes: critical issues and future challenges for Earth Science and Society*. Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu. (host: Peng Cui)
2013 *High-resolution topography: the next chapter for the Earth science*. China University of Geosciences, Beijing. (host: Chen Jianping)
2012 *Natural and Engineered Landscapes: new challenges from LiDAR for understanding Earth Surface Processes in the Anthropocene*. National Cheng Kung University, Department of Earth Science, Tainan (Taiwan). (host: Ching-Weei Lin)
2011 *New opportunity and future challenges from high-resolution topography for the analysis of Earth Surface Processes*. Central Geological Survey, Taipei (Taiwan). (host: Chao-Tsiung Lin)
2011 *New opportunity and future challenges from high-resolution topography for the analysis of Earth Surface Processes*. National Cheng Kung University, Department of Earth Science, Tainan (Taiwan). (host: Ching-Weei Lin)
2011 *New opportunity and future challenges from high-resolution topography for the analysis of Earth Surface Processes*. AgroParisTech, Montpellier, France. (host: Jean-Stephane Bailly)
2011 *New opportunities but also challenges from high-resolution topography.* École Polytechnique Fédérale de Lausanne EPFL, Switzerland. (host: Andrea Rinaldo)
2010 *High-resolution topography: new opportunities, issues and challenge in the Earth Science*. Institute of Inland Waters, Hellenic Centre for Marine Research, Greece.
(host: Emmanouil Anagnostou)
2010 *Semi-automatic methods for geomorphic features extraction: new opportunities from high-resolution topography*. CNR-IRPI. Perugia, Italy. (host: Fausto Guzzetti)
2008 *High-resolution topography: new opportunities, issues, and future trends*. Civil Engineering Dept. and St. Anthony Falls Laboratory, University of Minnesota, Minneapolis, USA.
(host: Efi Foufoula-Georgiou)

PRODUZIONE SCIENTIFICA (SINTESI PUBBLICAZIONI)

Paolo Tarolli è autore dal 2006 (anno conseguimento dottorato) di **200 articoli** indicizzati Scopus (**75%** degli articoli con primo o ultimo nome o corresponding author) pubblicati con i seguenti indici bibliometrici (*aggiornato 31 marzo 2025*): Google Scholar (**h-index 61**, tot. citazioni **11916**). Gli articoli sulle strategie di mitigazione della salinizzazione dei suoli in agricoltura sono citati nel 2024 in due rapporti ufficiali della Commissione Europea.

È inserito nella lista dei **world's top 2% most cited scientist** dal 2020: **top 0.16%** per la categoria '*geological & geomatics engineering*' (autocitazioni escluse); classifica di Elsevier BV e Stanford University.

Legnaro (PD), 31 Marzo 2025

PUBBLICAZIONI

**corresponding author*

Articoli pubblicati su riviste internazionali peer-reviewed

2025

1. Lippa, M.N., **Tarolli*, P**., Straffelini, E. (2025). Climate change impacts and the reshaping of Canadian viticulture. *iScience*, 28(3), 111941, ISSN: 2589-0042, doi: 10.1016/j.isci.2025.111941.
2. Qiu*, J., Yang, X., Zheng, Z., **Tarolli*, P.** (2025). High-resolution mapping of China's flooded croplands. *Science Bulletin*, doi:10.1016/j.scib.2025.01.053.
3. Ghirardelli, A., Straffelini, E., Park, E., D'Agostino, V., Masin, R., **Tarolli*, P.** (2025). *Environmental Research Letters*, 20, 013005, ISSN: 1748-9326, doi:10.1088/1748-9326/ad9bcd.
4. Li, X., Zhu, J., Lyu, X., Sun, Y., Tan, C., Zhang, B., **Tarolli, P.**, Yang*, Q. (2025). An integrative conservation and management strategy based on biological and cultural diversity assessment: A case study of Miaoling mountainous region, China. *Ecological Indicators*, 171, 113187, ISSN: 1470-160X, doi: 10.1016/j.ecolind.2025.113187.
5. Zheng, H., Miao*, C., Huntingford, C., **Tarolli, P.**, Li, D., Panagos, P., et al. (2025). The impacts of erosion on the carbon cycle. *Reviews of Geophysics*, 63, e2023RG000829 ISSN: 1944-9208, doi: 10.1029/2023RG000829.
6. Verdonen*, M, Villoslada, M., Kolari T.H.M., Tahvanainen, T., Korpelainen, P., **Tarolli, P.**, Kumpula, T. (2025). Spatial Distribution of Thaw Depth in Palsas Estimated From Optical Unoccupied Aerial Systems Data. *Permafrost and Periglacial Processes*, 36(1), 22-36, ISSN: 1045-6740, doi:10.1002/ppp.2252.
7. Sofia*, G., Sinatra, M., **Tarolli, P.**, Zaccone, C. (2025). Upscaling drought resilience by coupling soil data and UAV-multispectral imageries. *Science of the Total Environment*, 958, 178007, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2024.178007.

2024

8. Xue, C., Ghirardelli, A., Chen, J., **Tarolli*, P.** (2024). Investigating agricultural drought in Northern Italy through explainable Machine Learning: Insights from the 2022 drought. *Computers and Electronics in Agriculture*, 227, 109572. ISSN: 0168-1699, doi:10.1016/j.compag.2024.109572.
9. **Tarolli*, P.**, Luo, J., Park, E., Barcaccia, G., Masin, R. (2024). Soil salinization in agriculture: Mitigation and adaptation strategies combining nature-based solutions and bioengineering. *iScience,* 27, 108830. ISSN: 2589-0042, doi:10.1016/j.isci.2024.108830. ***EU Commission policy citation* *highly cited article***
10. Luo, J., Straffelini, E., Bozzolan, M., Zheng, Z., **Tarolli*, P.** (2024). Saltwater intrusion in the Po River Delta (Italy) during drought conditions: Analyzing its Spatio-temporal evolution and potential impact on agriculture. *International Soil and Water Conservation Research,* 12, 714–23, ISSN: 2095-6339, doi: 10.1016/j.iswcr.2023.09.009.
11. Straffelini, E., Wang, W., **Tarolli*, P.** (2024). European vineyards and their cultural landscapes exposed to record drought and heat. *Agricultural Systems*, 219, 104034, ISSN: 0308-521X, doi: 10.1016/j.agsy.2024.104034.
12. Straffelini, E., Luo*, J., **Tarolli*, P.** (2024). Climate change is threatening mountain grasslands and their cultural ecosystem services. *Catena*, 237, 107802, ISSN: 0341-8162, doi: 10.1016/j.catena.2023.107802.
13. Sofia*, G., Zaccone, C., **Tarolli, P.** (2024). Agricultural drought severity in NE Italy: Variability, bias, and future scenarios. *International Soil and Water Conservation Research,* 12, 403-418. ISSN: 2095-6339, doi:10.1016/j.iswcr.2023.07.003.
14. Chen, L., Yang*, C., Wang, J., Meng, Q., **Tarolli, P.** (2024). Variation in preferential flow features induced by desiccation cracks in physical crusts. *Journal of Hydrology,* 634, 131118, ISSN: 0022-1694, doi: 10.1016/j.jhydrol.2024.131118.
15. Yang, Y.,Zhao*, W., ... **Tarolli, P.** (2024). An Annual Temperature Cycle Feature Constrained Method for Generating MODIS Daytime All-Weather Land Surface Temperature. *IEEE Transactions on Geoscience and Remote Sensing,* 62, 1-14. ISSN:0196-2892, doi: 0.1109/TGRS.2024.3377670.
16. Yang, S., Jin*, Z., Hao, M., Jiang, C., Han, H., An, Z., **Tarolli, P.** (2024). Landscape and Soil Erosion Changes Along Different Types of Road Over the Past 30 Years in the Largest Loess Tableland of China. *Land Degradation and Developments*, 35(18) 5559-5560, ISSN: 1085-3278, doi:10.1002/ldr.5315.
17. Gao, L., Xu*, X., Zhao Y., Li, Y., **Tarolli, P.**, Siyal, A.A., Xia, J., Li, Z. (2024). Assessing riverbank collapse with lateral displacement of shoreline for ecologically friendly erosion-resistant solutions. *Environmental Earth Sciences*, 83(9) 279, ISSN: 1866-6280, doi:10.1007/s12665-024-11547-9.
18. Giarola, A., Schoorl, J.M., Baartman, J.E.M., Bordoni*, M., **Tarolli, P.**, Zucca, F., Heckmann, T., Meisina, C. (2024). Exploiting the land use to predict shallow landslide susceptibility: A probabilistic implementation of LAPSUS-LS. *Catena*, 246, 108437, ISSN: 0341-8162, doi:10.1016/j.catena.2024.108437.
19. Wang, W., Straffelini, E., **Tarolli*, P.** (2024). 44% of steep slope cropland in Europe vulnerable to drought. *Geography and Sustainability*, 5, 89-95. ISSN: 2096-7438, doi: 10.1016/j.geosus.2023.12.001.

20. Pears*, B.,Lang, A.,Fallu, D., ... **Tarolli, P.** (2024). Lynchet-Type Terraces, Loess, and Agricultural Resilience on Chalk Landscapes in the UK and Belgium. *European Journal of Archaeology*, 27(3), 329-352, ISSN: 1461-9571, doi: 10.1017/eaa.2024.6.
21. Giarola*, A., Meisina, C., **Tarolli, P**. et al. (2024). A data-driven method for the estimation of shallow landslide runout. *Catena,* 234, 107573. ISSN:0341-8162, doi:10.1016/j.catena.2023.107573.

2023

22. Xue, C., Xue*, L., Chen,J., **Tarolli, P.** (2023). Understanding driving mechanisms behind the supply-demand pattern of ecosystem services for land-use administration: Insights from a spatially explicit analysis. *Journal of Cleaner Production*, 427, 139239. ISSN: 0959-6526, doi:10.1016/j.jclepro.2023.139239.
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Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale.

Paolo Tarolli

Legnaro (PD), 31 Marzo 2025