

PAOLO TAROLLI

PROFESSORE ASSOCIATO

Settore: AGR/08 Idraulica Agraria e Sistemazioni Idraulico Forestali
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SOMMARIO

Paolo Tarolli è Professore Associato (abilitazione I fascia ottenuta nel 2018) presso l'Università degli Studi di Padova, docente in *Water Resources Management*, *Applicazioni GIS in Agricoltura*, *Integrated Watershed Management* e coordinatore del gruppo di ricerca *Earth Surface Processes and Society*. Ricopre l'incarico di Visiting Professor presso la China University of Geosciences di Pechino (Cina) e di Adjunct Professor presso la University of Georgia (USA).

È Vicepresidente della Natural Hazard division per la European Geosciences Union (EGU) e Vicepresidente della sezione VII (Tecnologie informatiche e della comunicazione) della Associazione Italiana di Ingegneria Agraria.

Tarolli è dal 2018 Executive Editor della rivista *Natural Hazards and Earth System Sciences* (Copernicus). È Associate Editor delle riviste *Remote Sensing* (MDPI), *Land Degradation & Development* (Wiley) e membro del comitato editoriale di altre riviste.

Tarolli è autore, dall'anno del titolo di dottorato (2006), di più di 90 articoli pubblicati (2 invited review articles, 6 special issue editorials) e in corso di stampa su riviste internazionali con i seguenti indici bibliometrici: Google Scholar (**h-index 36**, tot. citations 3600), SCOPUS (**h-index 32**, tot. citations 2735).

Tarolli tratta tematiche inerenti la geomorfologia, l'idrologia di bacini idrografici in ambito agrario e forestale, la tecnologia laser scanner (LiDAR) per la ricostruzione di modelli digitali del terreno, la tecnica di fotogrammetria Structure from Motion per la ricostruzione di modelli digitali della superficie, GIS.

È stato relatore su invito di 20 presentazioni (3 keynote talks) in istituti di ricerca internazionali e Accademie straniere di alta qualificazione (EPFL, AgroParisTech, Massey University, National Cheng Kung University, China University of Geosciences in Beijing, Chinese Academy of Sciences, University of Innsbruck) ed a conferenze internazionali (IGC, AAG, ISPRS, RGS-IBG, AOGS-AGU).

È stato revisore di progetti internazionali per i seguenti Enti: U.S. National Science Foundation (NSF), International Swiss National Science Foundation (SNSF), Netherlands Organization for Scientific Research (NWO), National Science Centre (NCN) of Poland, Natural Sciences and Engineering Research Council of Canada, FWF Austrian Science Fund, EU Commission research projects.

È membro dell'American Geophysical Union, Geological Society of America, European Geosciences Union, British Society for Geomorphology, Asia Oceania Geosciences Society (AOGS).

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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, regolarmente iscritto all’albo dei dottori agronomi e forestali di Brescia dal 2003.
- 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

- 2017 – presente **Adjunct Professor.** University of Georgia (USA)
- 2017 **Visiting Professor:** Guangzhou University, Beijing (P.R. China)
- 2015 – presente **Professore Associato:** Dipartimento TESAF, Università degli Studi di Padova
- 2013 – presente **Visiting Professor:** China University of Geosciences, Beijing (P.R. China)
- 2011 – 2014 **Ricercatore:** Dipartimento TESAF, Università degli Studi di Padova
- 2011 – 2013 **Visiting Professor:** Earth Sciences Department, National Cheng Kung University (Taiwan)
- 2011 **Visiting Professor:** School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
- 2010 **Visiting Scholar:** Geography Dept., National Taiwan University (Taiwan)
- 2010 **Ricercatore Marie Curie:** Institute of Inland Waters, Hellenic Centre for Marine Research (Greece)
- 2012 – 2013 **Professore Aggregato:** Università Politecnica delle Marche
- 2009 – 2011 **Professore a Contratto:** Università Politecnica delle Marche
- 2008 **Visiting Scholar:** Civil Engineering Dept. and St. Anthony Falls Laboratory, University of Minnesota, USA
- 2006 – 2010 **Assegnista di Ricerca:** Dipartimento TESAF, Università degli Studi di Padova
- 2005 **Visiting Scholar:** EES Dept., New Mexico Tech, USA
- 2005 **Visiting Scholar:** Civil and Environmental Engineering Dept., Utah State University, USA

INCARICHI ESTERNI – LEADERSHIP – COMMISSION OF TRUST

- 2019 – presente **Vice-Presidente** Natural Hazards division, European Geosciences Union (EGU).
- 2018 – presente **Coordinatore** del gruppo di ricerca Earth Surface Processes and Society (<https://www.linkedin.com/in/earthsurfs/>)
- 2018 **Membro del Panel NERC:** NERC-Newton Fund (UK)
- 2018 – presente **Vice-Presidente** VII sezione (Tecnologie informatiche e della comunicazione), Associazione Italiana Ingegneria Agraria.
- 2016 – 2019 **Chair** of the European Geosciences Union SSS subdivision SSS12: *Material and Methods in Soil Science*
- 2015 – presente **Chair** of the European Geosciences Union NH subdivision NH6: *Remote Sensing & Hazards*
- 2014 – presente **Evaluator:** Montpellier SupAgro - INRA (France); University of Trieste (Italy); Ecole Polytechnique Fédérale de Lausanne (Switzerland); University of Genova (Italy)
- 2014 **Director:** UNIPD-NCKU (Italy-Taiwan) Joint Summer School 2014 “*Natural Hazards in the Italian Alps*”
- 2013 **Director:** EGU Summer School 2013 “*Understanding Earth-Surface Processes in the Alpine Environment from High Resolution Topography*” (<http://intra.tesaf.unipd.it/cms/summerequ2013/>)
- 2013 – **Review panel member:** 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.
2011	Evaluator: PhD committee evaluation panel, Ecole Nationale Supérieure des Mines de Saint-Etienne, Alès (France).
2011	Evaluator: Master of Science committee evaluation panel, Ecole Polytechnique Fédérale de Lausanne (Switzerland)

FELLOWSHIPS

2014	Visiting Professor Appointment Agreement of Distinguished Scholars at China University of Geosciences in Beijing (P.R. China)
2013	Visiting Professor Appointment Agreement of Distinguished Scholars at National Cheng Kung University (Taiwan)
2010	Marie Curie Fellow – Excellence Grant for Experienced Researcher at the Hellenic Center for Marine Research (Greece)

PREMI – RICONOSCIMENTI

2018	Publons Peer Review Awards top 1 per cent peer reviewers in <i>Geosciences</i> and in <i>Environment/Ecology</i>
2018	Outstanding Contribution in Reviewing for the journal <i>Science of the Total Environment, Land Use Policy, Geomorphology, Environmental Research, Int. J. Appl. Earth Obs. And Geoinf., Int. J. Disaster Risk Reduction</i>
2017	Outstanding Editor <i>Journal of Mountain Science</i>
2017	Outstanding Contribution in Reviewing for the journal <i>Adv. Wat. Res., J. of Hydrology</i>
2017	Publons Peer Review Awards top 1 per cent peer reviewers in <i>Environmental Science</i> and in <i>Earth and Planetary Science</i>
2016	Outstanding Contribution in Reviewing for the journal <i>Catena</i>
2015	Outstanding Contribution in Reviewing for the journal <i>Geomorphology, Earth Science Reviews</i>
2012	Best Poster Award , XXXIII Italian Conference of Hydraulics and Hydraulic Constructions
2011	Editors' Citation for Excellence in Refereeing for WRR given by American Geophysical Union
2010	Outstanding Reviewer for the <i>Journal of Hydrologic Engineering</i> , ASCE
2010	Best Poster Award , XXXII Italian Conference of Hydraulics and Hydraulic Constructions

SUPERVISIONE ASSEGNI DI RICERCA, TESI DI DOTTORATO E DI LAUREA

Assegni di ricerca

Giulia Sofia (2013-2018) (EGU Arne Richter Award 2019), Sara Cucchiario (2019-2021).

Dottorandi

Supervisore: Zhang Qifei (2018-2021), Anton Pijil (2017-2020), Wenfang Cao (2017-2019), Giulia Roder (2016-2018), Massimo Prosdocimi (2014-2017) presso l'Università di Padova.

Co-Supervisore: Kamila Pawłuszek (2017-2019) presso Wrocław University of Environmental and Life Sciences; Jie Xiang (2015-2018) presso China University of Geosciences in Beijing; Jin Wang (2014-2018) presso Chinese Academy of Science; Young-Sing Cheng (2014-2019) presso National Cheng Kung University; Ke Li (2013- 2015) presso China University of Geosciences in Beijing.

Tesi di laurea

Giacomo Nalin (ongoing - 2019), Eugenio Straffelini (2018), Edoardo Quarella (2018), Gaetano Imperatore (2018), Luca Mauri (2018), Michele Tosoni (2017), Loris Torresani (2017), Francesca Breda (2017), Elena Feo (2017), Manuel Stefani (2017), Jessica de Marco (2016), Federica Varisco (2016), Davide Todeschini (2016), Marco Cecchin (2016), Giulia Lo Re (2016), Federica Basso (2016), Nicoletta Pradetto Sordo (2016), Gianluca Favaro (2015), Alberto Bollettin (2015), Giulia Roder (2014), Valeria Contessa (2014), Francesca Savio (2013), Massimo Prosdocimi (2013) presso Università di Padova.

Manuela Mancini (2012) e Francesca Brutti (2012) presso Università Politecnica delle Marche.

ATTIVITÀ DIDATTICA

- 2018 – presente *Water Resources Management*, Università di Padova & University of Georgia (48 hr, 6 CFU)
- 2017 *Earth surface processes analysis using Remote Sensing & GIS*, Guangzhou University, P.R. China (16 hr)
- 2016 *Digital Terrain Analysis of Anthropogenic Landscapes*, European Geoscience Union - EGU General Assembly (1.5 hr)
- 2014 – presente *Water Resources Management*, Università di Padova (48 hr, 6 CFU)
- 2014 – presente *Applicazioni GIS in agricoltura*, Università di Padova (32 hr, 4 CFU)
- 2014 – presente *Digital Terrain Analysis*, China University of Geosciences in Beijing, P.R. China (32 hr, 2 credits)
- 2013 NCKU-UNIPD Joint Summer School, Università di Padova
- 2013 *Digital Geomorphology and Statistical Analysis*, China University of Geosciences in Beijing, P.R. China (32 hr, 2 credits)
- 2013 *Digital Terrain Analysis*, National Cheng Kung University, Taiwan (50 hr, 3 credits)
- 2013 NCKU-UNIPD Joint Summer School, National Cheng Kung University, Taiwan
- 2013 EGU Summer School 2013, Università di Padova
- 2011 – presente *Integrated Watershed Management*, Università di Padova (48 hr, 6 CFU)
- 2011 – 2013 *Geomorphometry*, Centro Interdipartimentale di Ricerca in Geomatica (C.I.R.G.E.O.), Università di Padova.
- 2012 – 2013 *Sistemazioni Idraulico-Forestali*, Università Politecnica delle Marche (54 hr, 6 CFU)
- 2009 – 2011 *Sistemazioni Idraulico-Forestali*, Università Politecnica delle Marche (45 hr, 5 CFU)

ORGANIZZAZIONE DI CONVEGNI SCIENTIFICI

- 2019 Convener & Chairperson: session NH6.1. Application of remote sensing and Earth-observation data in natural hazard and risk studies (EGU General Assembly)
- 2018 Primary Convener: Fingerprinting the Anthropocene: Observing and Understanding Social Change Across Earth's Landscapes (AGU Fall Meeting)
- 2018 Convener & Chairperson: session NH6.1. Application of remote sensing and Earth-observation data in natural hazard and risk studies (EGU General Assembly)
- 2018 Convener & Chairperson: session SSS2.3. Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (EGU General Assembly)
- 2017 Convener & Chairperson: session HS2.2.3 Lowlands: A hydrologic challenge in the global environmental change era (EGU General Assembly)
- Convener & Chairperson: session HS2.2.3 Lowlands: A hydrologic challenge in the global environmental change era (EGU General Assembly)
- 2017 Convener & Chairperson: session SSS2.16/GM7.7/HS11. Agricultural terraces of the world. Their pedological, geomorphological and hydrological role (co-organized) (EGU General Assembly)
- 2017 Convener & Chairperson: session NH6.1/CR2.7/GI2.8/HS11.29/SM5.7/SSS12.20 Application of remote sensing and Earth-observation data in natural hazard and risk studies (EGU General Assembly)
- 2017 Co-Convener & Chairperson: session NH3.12 Landslide and Landslide Susceptibility Interactions with Transport Lines (EGU General Assembly)
- 2017 Co-Convener & Chairperson: session SSS10.8/BG9.6/HS9.11 Soil Erosion, hydrological processes and biological degradation in worldwide vineyards (EGU General Assembly)
- 2016 Convener & Chairperson: session SSS2.10/GM6.8/HS11.29/NH3.19 *Agricultural terraces of the world. Their pedological, geomorphological and hydrological role* (EGU General Assembly)
- 2015 Convener & Chairperson: session GM4.1 *Human-Landscape interaction in the Anthropocene* (EGU General Assembly)
- 2015 Convener & Chairperson: session SSS2.5/GM6.6/HS12.3 *Agricultural terraces of the world. Their pedological, geomorphological and hydrological role* (EGU General Assembly)
- 2014 Convener & Chairperson: session GM4.1/HS9.12/SSS9.18 *Human-Earth interaction from the Pleistocene to the Anthropocene: state of the science and future direction* (EGU General Assembly)
- 2014 Co-Convener: session GM2.1 *Digital Landscapes: Insights into geomorphological*

- 2013 *processes from quantitative interrogation and use* (EGU General Assembly)
 Convener & Chairperson: session GM4.2/SSS6.12 *Landscape in the Anthropocene: state of the art and future directions* (EGU General Assembly)
- 2013 Co-Convener: session GM2.1 *Digital Landscapes: Insights into geomorphological processes from high-resolution topography, quantitative interrogation and geomorphological mapping* (EGU General Assembly)
- 2012 Co-Convener & Chairperson: session GM2.1 *Digital Landscapes: Quantitative Interrogation and Use to Examine Geomorphic Processes* (EGU General Assembly)
- 2011 Co-Convener & Chairperson: session GM2.2/NH10.3/PS10.2 *Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes* (EGU General Assembly)
- 2007 Convener & Chairman: session H43E/H51L/H52E *Remotely Sensed DTMs for Hydrogeomorphic Applications* (AGU Fall Meeting)

RESPONSABILITÀ ACCADEMICHE

- 2018 – 2022 Referente della cotutela di dottorato tra China University of Geosciences e University of Padova
- 2017 – 2022 Coordinatore Scientifico del Memorandum of Understanding tra Massey University (NZ), University of Lincoln (UK) e University of Padova.
- 2017 – 2022 Coordinatore Scientifico del Memorandum of Understanding tra China University of Geosciences e University of Padova.
- 2015 – Membro commissione di valutazione della ricerca VQR di dipartimento. Dept. of Land, Environment, Agriculture and Forestry, University of Padova.
- 2012 – Membro della commissione internazionalizzazione di dipartimento. Dept. of Land, Environment, Agriculture and Forestry, University of Padova.

COMITATI EDITORIALI RIVISTE

- 2018 – **Executive Editor:** NHESS (Copernicus)
- 2018 – **Associate Editor:** Land Degradation & Development (Wiley)
- 2017 – **Associate Editor & Advisory Board Member:** Remote Sensing (MDPI)

Editorial Board Member: iScience (Cell Press), Earth Surface Processes and Landforms (Wiley), Anthropocene (Elsevier), Heliyon (Elsevier), Journal of Mountain Science (Springer), Quaternary (MDPI).

ATTIVITÀ DI SERVIZIO

- 2006 – **Reviewer** (journals): Science of the Total Environment, Remote Sensing, Geomorphology, Water Resources Research, Earth Surface Processes and Landforms, Journal of Hydrology, Journal of Hydrologic Engineering, HESS, Land Degradation and Development, International Journal of GIS, Journal of Mountain Science, Journal of Geophysical Research, Geophysical Research Letters, Advance in Water Resources, Hydrological Processes, NHESS, Catena, Geoderma, Land Use Policy, IEEE GRL, Remote Sensing of Environment, Natural Hazards, Earth Science Review, PloSOne, Climate Change, Science.
 (Publons profile: <https://publons.com/researcher/1191792/paolo-tarolli>)

AFFILIAZIONI

Vicepresidente – Natural Hazard division European Geosciences Union (EGU) 2019 - presente
Vicepresidente – sezione VII (Tecnologie informatiche e della comunicazione) della Associazione Italiana di Ingegneria Agraria

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American Geophysical Union, 2005 - presente
 Asian Oceania Geosciences Society, 2012 - presene
 British Society for Geomorphology, 2011 - presente
 European Geosciences Union, 2006 - presente

Geological Society of America, 2005 - 2013
Italian Society of Agricultural Engineering, 2012 - presente

PROGETTI DI RICERCA (ultimi 5 anni)

2019 – 2022	<i>SOILUTION SYSTEM</i> - Innovative solutions for soil erosion risk mitigation and a better management of vineyards in hills and mountain landscapes (PSR Veneto 2014-2020) 450,000 € (Coordinatore Scientifico; PI - WP1)
2019 – 2022	<i>FITOCHE</i> - From field to cheese (PSR Veneto 2014-2020) 300,000 € (PI - WP4)
2018 – 2023	<i>TerrACE</i> - Terrace Archaeology and Culture in Europe (EU H2020 ERC-AdG) 2,600,000 € (PI - WP1)
2018 – 2021	<i>ViTe</i> - Vineyard Terraced landscapes: understanding the Environmental constraints to improve sustainable managements (University of Padova) 60,000€ (PI)
2016 – 2018	<i>HighLandDEM</i> - 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)
2014 – 2020	<i>NIP</i> - New industrial plan for dairy sector (POR FESR – Veneto Region) 608,024€ (team member)

PRINCIPALI COLLABORAZIONI

Erle C. Ellis, *Anthropocene debate*, University of Maryland (USA)
 Federico Preti, *agricultural terraces*, University of Florence (Italy)
 Ian Fuller, *anthropogenic alluvium analysis with lidar*, Massey University (New Zealand)
 Jean-Stéphane Bailly, *remote sensing analysis of agricultural landscapes*, AgroParisTech (France)
 Jianping Chen, *open-pit mining monitoring with UAV*, China University of Geosciences (P.R. China)
 Mark Macklin, *floods & human health in anthropogenic landscapes*, University of Lincoln (UK)
 Marco Cavalli, *Earth surface processes analysis with lidar*, CNR Irpi Padova (Italy)
 Nunzio Romano, *surface runoff in agriculture*, University of Naples Federico II (Italy)
 Paolo D'Odorico, *water use sustainability*, UC Berkeley (USA)
 Wenwu Zhao, *soil conservation and ecosystem services*, Beijing Normal University (P.R. China)
 Xiangzhou Xu, *soil and water conservation*, Dalian University of Technology (P.R. China)
 Zhifeng Wu, *human-induced land-use change effect on the environment*, Guangzhou Univ. (P.R. China)

PRESENTAZIONI SU INVITO

Convegni scientifici internazionali

- 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 Annual Meeting 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.

Istituti di Ricerca ed Accademie internazionali

- 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, R.O.C.). (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)

PUBBLICAZIONI (SINTESI)

Paolo Tarolli è autore, dall'anno del titolo di dottorato (2006), di più di 90 articoli pubblicati (2 invited review articles, 6 special issue editorials) e in corso di stampa su riviste internazionali con i seguenti indici bibliometrici: Google Scholar (**h-index 36**, totale citazioni 3600), SCOPUS (**h-index 32**, totale citazioni 2735). Ha pubblicato anche 1 recensione di film e 3 book review su riviste internazionali, 9 articoli su riviste divulgative nazionali, 12 articoli in libri, 20 articoli in atti di convegni, e 145 contributi (7 su invito) a congressi internazionali/nazionali (41 presentazioni orali, 104 poster).

PUBBLICAZIONI

*corresponding author

Articoli in revisione o in preparazione

1. **Tarolli***, P., Sofia, G. Potential responses to sediment dynamics in terraced agricultural landscapes: high-resolution topography to support rural development planning.
2. Cao*, W., Sofia, G., **Tarolli**, P. Geomorphometric characterization of natural and anthropogenic land cover.

Articoli pubblicati su riviste internazionali peer-reviewed

2019

1. Mauri, L., Sallustio, L., **Tarolli***, P. (2019). The geomorphologic forcing of wild boars. *Earth Surface Processes and Landforms*, doi:10.1002/esp.4623.
2. Yang*, X., Lu, X., Park, E., **Tarolli**, P. (2019). Impacts of Climate Change on Lake Fluctuations in the Hindu Kush-Himalaya-Tibetan Plateau. *Remote Sensing*, 11, 1082, doi:10.3390/rs11091082.
3. Roder*, G., Hudson, P., **Tarolli**, P. (2019). Flood risk perceptions and the willingness to pay for flood insurance in the Veneto region of Italy. *International Journal of Disaster Risk Reduction*, 37, 101172, doi: 10.1016/j.ijdr.2019.101172.
4. Pijl*, A., Tosoni, M., Roder, G., Sofia, G., **Tarolli**, P. (2019). Design of Terrace Drainage Networks

- Using UAV-Based High-Resolution Topographic Data. *Water*, 11, 814, doi:10.3390/w11040814.
5. **Tarolli***, P., Cavalli, M., Masin, R., (2019). High-resolution morphologic characterization of conservation agriculture. *Catena*, 172, 846–856, doi:10.1016/j.catena.2018.08.026.
 6. **Tarolli***, P., Cao, W., Sofia, G., Evans, D., Ellis, EC. (2019). From features to fingerprints: a general diagnostic framework for anthropogenic geomorphology. *Progress in Physical Geography*, 43, 95–128, doi: 10.1177/0309133318825284.
 7. Sofia*, G., Ragazzi, F., Giandon, P., Dalla Fontana, G., **Tarolli, P.** (2019). On the linkage between runoff generation, land drainage, soil properties, and temporal patterns of precipitation in agricultural floodplains. *Advances in Water Resources*, 124, 120–138, doi:10.1016/j.advwatres.2018.12.003
 8. Borsato*, E., Giubilato, E., Zabeo, A., Lamastra, L., Criscione, P., **Tarolli, P.**, Marinello, F., Pizzol, L. (2019). Comparison of Water-focused Life Cycle Assessment and Water Footprint Assessment: The case of an Italian wine. *Science of the Total Environment*, 666, 1220–1231, doi:10.1016/j.scitotenv.2019.02.331.
 9. Pijl*, A., Barneveld, P., Mauri, L., Borsato, E., Grigolato, S., **Tarolli, P.** (2019). Estimating the impact of mechanization on soil loss in vineyards terraced landscapes. *Cuadernos de Investigación Geográfica*, 45, 287–308, doi: 10.18172/cig.3774.
 10. Li, M., Wu*, J., Song, C., He, Y., Niu, B., Fu, G., **Tarolli, P.**, Tietjen, B., Zhang, X. (2019). Temporal Variability of Precipitation and Biomass of Alpine Grasslands on the Northern Tibetan Plateau. *Remote Sensing*, 11, 360, doi:10.3390/rs11030360.
 11. Viero*, D.P., Roder, G., Matticchio, B., Defina, A., **Tarolli, P.** (2019). Floods, landscape modifications and population dynamics in anthropogenic coastal lowlands: The Polesine (northern Italy) case study. *Science of the Total Environment*, 651, 1435–1450, doi:10.1016/j.scitotenv.2018.09.121.

2018

12. **Tarolli***, P. (2018). Agricultural Terraces Special Issue Preface. *Land Degradation and Development*, 29, 3544–3548, doi:10.1002/ldr.3129. ([Special Issue Editorial](#))
13. Pawluszek*, K., Borkowski, A., **Tarolli, P.** (2018). Sensitivity analysis of automatic landslide mapping: numerical experiments towards the best solution. *Landslides*, 15, 1851–1865, doi: 10.1007/s10346-018-0986-0.
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PROCEEDINGS (CONVEGNI NAZIONALI)

Presentazione orale

1. Pijl, A., Tosoni, M., Roder, G., Sofia, G., **Tarolli, P.** (2018). Use of Unmanned Aerial Vehicle (UAV) data for the maintenance of terraced landscapes – a case study in Valcamonica (BS, Italy) [paper 165]. XXXVI Convegno Nazionale di Idraulica e Costruzioni Idrauliche. [Ancona]
2. Prosdocimi, M., Sofia, G., Dalla Fontana, G., **Tarolli, P.** (2013). Land use change in the Veneto floodplain and consequences on minor network drainage system. *AIIA 2013 (X Conference of the Italian Society of Agricultural Engineering)*. [Viterbo]
3. **Sofia, G.**, Cazorzi, F., De Luca, A., Dalla Fontana, G., **Tarolli, P.**, (2011). Drainage network detection and quantification of water storage capacity within drainage channels in alluvial plains through LiDAR derived DTMs. *Geoitalia 2011 (VIII Forum Italiano di Scienze della Terra)*. [Torino]
4. **Tarolli, P.**, Dalla Fontana, G. (2009). Testing new methodologies for landslide features extraction from high resolution topography. *Geoitalia 2009 (VII Italian Forum of Earth Sciences)*. [Rimini]
5. Cavalli, M., **Tarolli, P.** (2009). Airborne LiDAR as a new tool for fluvial geomorphology. *Geoitalia 2009 (VII Forum Italiano di Scienze della Terra)*. [Rimini]

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1. **Tarolli, P.**, Righetto, A. (2012). Analisi della relazione area-pendenza: alcuni casi di studio nella Provincia Autonoma di Bolzano. XXXIII Convegno Nazionale di Idraulica e Costruzioni Idrauliche. [Brescia] [Premio miglior poster](#)

2. Sofia, G., **Tarolli, P.**, Cazorzi, F., De Luca, A., Dalla Fontana, G. (2012). Il reticolo di drenaggio minore: caratterizzazione a larga scala di densità di drenaggio e capacità di invaso. XXXIII Convegno Nazionale di Idraulica e Costruzioni Idrauliche. [Brescia]
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4. **Tarolli, P.**, Calligaro, S., Cazorzi, F., Dalla Fontana, G. (2011). L'alterazione dei deflussi idrici superficiali da parte dei segmenti viari e dei sentieri: l'efficacia della topografia ad alta risoluzione. *Convegno Nazionale di medio termine dell'Associazione Italiana di Ingegneria Agraria (AIIA)*. [Belgirate]
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