

INFORMAZIONI PERSONALI

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Sesso: Maschile | *Data di nascita*: 17/12/1974 | *Nazionalità*: Italiana

CF: CZZLCU74T17F839I | *Residenza*: via G. Ferraris 74, Napoli, Italia

Esperienza lavorativa

Sett 2018 - Oggi

Professore associato

Università degli Studi di Napoli "Parthenope", Napoli, Italia

Settore scientifico disciplinare ICAR/02 (Costruzioni Idrauliche, Marittime, e Idrologia)

Sett 2007 – Sett 2018

Ricercatore universitario

Università degli Studi di Napoli "Parthenope", Napoli, Italia

▪ Settore scientifico disciplinare ICAR/02 (Costruzioni Idrauliche, Marittime, e Idrologia)
Università degli Studi di Napoli "Parthenope", Napoli, Italia

Istruzione

Nov 2002 – Feb 2005

Dottore di ricerca in "Reti civili e Sistemi territoriali"

Università degli Studi di Napoli Federico II, Napoli, Italia

Sett 1993 – Ott 2001

Laurea – Ingegneria Civile

Università degli Studi di Napoli Federico II, Napoli, Italia

Incarichi esterni autorizzati

Anno 2014

POR Campania FESR 2007-2013

Grande progetto "Risanamento ambientale e valorizzazione dei laghi dei Campi Flegrei - Lavori di realizzazione "Nuova rete fognaria per gli insediamenti del comprensorio Cuma Licola"

Commissione giudicatrice nominata ex. Art. 84 DLgs 163/06 e s.m.i. con Determinazione Dirigenziale n° 1858 del 08.11.2013.

Pubblicazioni scelte

Solo pubblicazioni su rivista internazionale dotata di Impact Factor

- 1) Luca Cozzolino, Domenico Pianese, Francesco Pirozzi (2005) "Control of DBPs in water distribution systems through optimal chlorine dosage and disinfection stations allocation", *Desalination* 176 (1-3), 113-125.
- 2) Luca Cozzolino, Carmela Mucherino, Domenico Pianese, Francesco Pirozzi (2006) "Positioning, within water distributions networks, of monitoring stations aiming at an early detection of intentional contamination", *Civil Engineering and Environmental Systems* 23(3), 161-174.
- 3) Luca Cozzolino, Renata Della Morte, Anna Palumbo, Domenico Pianese (2011) "Stochastic approaches for sensors placement against intentional contaminations in water distribution systems", *Civil Engineering and Environmental Systems*, 28(1), 75-98.
- 4) Luca Cozzolino, Renata Della Morte, Carmine Covelli, Giuseppe Del Giudice, Domenico Pianese (2011) "Numerical solution of the discontinuous-bottom Shallow-water Equations with hydrostatic pressure distribution at the step", *Advances in Water Resources*, 34(11), 1413-1426.
- 5) Luca Cozzolino, Renata Della Morte, Giuseppe Del Giudice, Anna Palumbo, Domenico Pianese (2012) "A well-balanced spectral volume scheme with the wetting-drying property for the shallow-water equations", *Journal of Hydroinformatics*, 14(3), 745-760.
- 6) Luigi Cimorelli, Luca Cozzolino, Carmine Covelli, Carmela Mucherino, Anna Palumbo, Domenico Pianese, "Optimal design of rural drainage networks" (2013) *ASCE Journal of Irrigation and Drainage Engineering*, 139(2), 137-144.
- 7) Luigi Cimorelli, Luca Cozzolino, Renata Della Morte and Domenico Pianese (2013) "An improved numerical scheme for the approximate solution of the Parabolic Wave model", *Journal of Hydroinformatics*, 15(3), 913-925.
- 8) Anna Palumbo, Luigi Cimorelli, Carmine Covelli, Luca Cozzolino, Carmela Mucherino, Domenico Pianese (2014) "Optimal design of urban drainage networks", *Civil Engineering and Environmental Systems* 31(1), 79-96, DOI: 10.1080/10286608.2013.820277.
- 9) Luca Cozzolino, Luigi Cimorelli, Carmine Covelli, Renata Della Morte, Domenico Pianese (2014) "Novel numerical approach for 1D variable density shallow flows over uneven rigid and erodible beds", *ASCE Journal of Hydraulic Engineering* 140(3), 254-268, DOI: 10.1061/(ASCE)HY.1943-7900.0000821.
- 10) Luigi Cimorelli, Luca Cozzolino, Renata Della Morte, Domenico Pianese (2014) "Analytical solutions of the linearized parabolic wave accounting for downstream boundary condition and uniform lateral inflow", *Advances in Water Resources* 63, 57-76, doi: 10.1016/j.advwatres.2013.11.003.
- 11) Luigi Cimorelli, Luca Cozzolino, Carmine Covelli, Renata Della Morte, Domenico Pianese (2014) "Enhancing the efficiency of the automatic design of rural drainage networks", *ASCE Journal of Irrigation and Drainage Engineering* 140(6), 04014015, DOI: 10.1061/(ASCE)IR.1943-4774.0000721.
- 12) Luca Cozzolino, Luigi Cimorelli, Carmine Covelli, Renata Della Morte, Domenico Pianese (2014) "Boundary conditions in Finite Volume schemes for the solution of the Shallow-water Equations: the non-submerged broad-crested weir". *Journal of Hydroinformatics* 16(6), 1235-1249, DOI: 10.2166/hydro.2014.100.
- 13) Andrea D'Aniello, Luca Cozzolino, Luigi Cimorelli, Renata Della Morte, Domenico Pianese (2015) "A numerical model for the simulation of debris flow triggering, propagation and arrest", *Natural Hazards* 75(2), 1403-1433, DOI: 10.1007/s11069-014-1389-8.
- 14) Luca Cozzolino, Luigi Cimorelli, Carmine Covelli, Carmela Mucherino, Domenico Pianese (2015) "An Innovative Approach for Drainage Network Sizing", *Water* 7(2), 546-567, doi:10.3390/w7020546.

- 15) Luigi Cimorelli, Luca Cozzolino, Renata Della Morte, Domenico Pianese, Vijay P. Singh (2015) "A new frequency domain analytical solution of a cascade of diffusive channels for flood routing", *Water Resources Research* 51(4), 2393-2411. DOI: 10.1002/2014WR016192.
- 16) Luca Cozzolino, Luigi Cimorelli, Carmine Covelli, Renata Della Morte, Domenico Pianese (2015) "The analytic solution of the Shallow-Water Equations with partially open sluice-gates: the dambreak problem", *Advances in Water Resources* 80, 90-102. doi:10.1016/j.advwatres.2015.03.010)
- 17) Carmine Covelli, Luca Cozzolino, Luigi Cimorelli, Renata Della Morte, Domenico Pianese (2015) "A model to simulate leakage through joints in water distribution systems", *Water Science and Technology: Water Supply* 15(4) 852-863. doi:10.2166/ws.2015.043.
- 18) Luigi Cimorelli, Francesco Morlando, Luca Cozzolino, Carmine Covelli, Renata Della Morte, Domenico Pianese (2016) "Optimal positioning and sizing of detention tanks within urban drainage networks." *ASCE Journal of Irrigation and Drainage Engineering* 142(1) 04015028, doi: 10.1061/(ASCE)IR.1943-4774.0000927.
- 19) Carmine Covelli, Luca Cozzolino, Luigi Cimorelli, Renata Della Morte, Domenico Pianese (2016) "Optimal location and setting of PRVs in WDS for leakage minimization", *Water Resources Management* 30(5), 1803-1817. doi: 10.1007/s11269-016-1252-7.
- 20) Vincenzo Piscopo, Guido Benassai, Luca Cozzolino, Renata Della Morte, A. Scamardella (2016) "A new optimization procedure of heaving point absorber hydrodynamic performances", *Ocean Engineering* 116, 242-259. doi: 10.1016/j.oceaneng.2016.03.004.
- 21) Carmine Covelli, Luigi Cimorelli, Luca Cozzolino, Renata Della Morte, Domenico Pianese (2016) "Reduction in water losses in water distribution systems using Pressure Reduction Valves", *Water Science and Technology: Water Supply* 16(4), 1033-1045. DOI: 10.2166/ws.2016.020.
- 22) Luigi Cimorelli, Luca Cozzolino, Andrea D'Aniello, Francesco Morlando, Domenico Pianese Vijay P. Singh (2016) "A new semi-Lagrangian routing procedure for constituent transport in steady and unsteady flow velocity fields", *Journal of Hydrology* 538, 216-230. doi: 10.1016/j.jhydrol.2016.04.022.
- 23) Francesco Morlando, Luigi Cimorelli, Luca Cozzolino, Giorgio Mancini, Domenico Pianese, Franco Garofalo (2016) "Shot noise modeling of daily streamflows: A hybrid spectral- and time-domain calibration approach", *Water Resources Research* 52(6), 4730-4744. doi: 10.1002/2015WR017613.
- 24) Luca Cozzolino, Veronica Pepe, Francesco Morlando, Luigi Cimorelli, Andrea D'Aniello, Renata Della Morte, Domenico Pianese (2017) "Exact solution of the dam-break problem for constrictions and obstructions in constant width rectangular channels." *ASCE Journal of Hydraulic Engineering* 143(11) 0417047, doi: 10.1061/(ASCE)HY.1943-7900.0001368.
- 25) Luca Cozzolino, Veronica Pepe, Luigi Cimorelli, Andrea D'Aniello, Renata Della Morte, Domenico Pianese (2018) "The solution of the dam-break problem in the Porous Shallow water Equations." *Advances in Water Resources* 114, 83-101. doi: 10.1016/j.advwatres.2018.01.026.
- 26) Cimorelli L., Cozzolino L., D'Aniello A., Pianese D. (2018) "Exact solution of the Linear Parabolic Approximation for flow-depth based diffusive flow routing." *Journal of Hydrology* 563, 620-632, doi: 10.1016/j.jhydrol.2018.06.026.
- 27) Cimorelli L., Morlando F., Cozzolino L., D'Aniello A., Pianese D. (2018) "Comparison Among Resilience and Entropy Index in the Optimal Rehabilitation of Water Distribution Networks Under Limited-Budgets." *Water Resources Management* 32(12), 3997–4011. doi: 10.1007/s11269-018-2032-3.
- 28) D'Aniello A., Cimorelli L., Cozzolino L., Pianese D. (2019) "The Effect of Geological Heterogeneity and Groundwater Table Depth on the Hydraulic Performance of Stormwater Infiltration Facilities." *Water Resources Management* 33(3), 1147-1166. doi: 10.1007/s11269-018-2172-5.
- 29) D'Aniello A., Cimorelli L., Cozzolino L. (2019) "The Influence of Soil Stochastic Heterogeneity and Facility Dimensions on Stormwater Infiltration Facilities Performance." *Water Resources Management* 33(7), 2399-2415. doi: 10.1007/s11269-019-02268-x.

- 30) Pepe Veronica, Cimorelli Luigi, Pugliano Giovanni, Renata Della Morte, Pianese Domenico, Cozzolino L. (2019) "The solution of the Riemann problem in rectangular channels with constrictions and obstructions." *Advances in Water Resources* 129, 146-164. doi: 10.1016/j.advwatres.2019.05.013.
- 31) Cozzolino Luca, Cimorelli Luigi, Della Morte Renata, Pugliano Giovanni, Piscopo Vincenzo, Pianese Domenico (2019) " Flood propagation modeling with the Local Inertia Approximation: Theoretical and numerical analysis of its physical limitations." *Advances in Water Resources* 133, 103422. doi: 10.1016/j.advwatres.2019.103422.
- 32) Varra Giada, Pepe Veronica, Cimorelli Luigi, Della Morte Renata, Cozzolino Luca (2019) " On integral and differential porosity models for urban flooding simulation." *Advances in Water Resources* 136, 103455. doi: 10.1016/j.advwatres.2019.103455
- 33) Cimorelli Luigi, D'Aniello Andrea, Cozzolino Luca (2020) "Boosting Genetic Algorithm Performance in Pump Scheduling Problems with a Novel Decision-Variable Representation", *ASCE Journal of Water Resources Planning and Management* 146(5), 04020023. Doi: 10.1061/(ASCE)WR.1943-5452.0001198.
- 34) Fontanella Stefania, Fecarotta Oreste, Molino Bruno, Cozzolino Luca, Della Morte Renata (2020) "A Performance Prediction Model for Pumps as Turbines (PATs)", *MDPI Water* 12(4), 1175. Doi: 10.3390/w12041175.
- 35) Cimorelli Luigi, D'Aniello Andrea, Cozzolino Luca, Pianese Domenico (2020) "Leakage reduction in WDNs through optimal setting of PATs with a derivative-free optimizer", *Journal of Hydroinformatics* 22(4), 713-724. Doi: 10.2166/hydro.2020.142.
- 36) Luca Cozzolino, Giada Varra, Luigi Cimorelli, Domenico Pianese, Renata Della Morte (2021) Friction decoupling and loss of rotational invariance in 2D flooding models, *Advances in Water Resources* 152, 103919. Doi: 10.1016/j.advwatres.2021.103919.
- 37) Luigi Cimorelli, Andrea D'Aniello, Luca Cozzolino (2021) Closure to Boosting Genetic Algorithms in pump scheduling problems with a novel decision-variable representation by Luigi Cimorelli, Andrea D'Aniello, and Luca Cozzolino, *Journal of Water Resources Planning and Management* 147(9), 07021012. Doi: 10.1061/(ASCE)WR.1943-5452.0001440.
- 38) Varra G., Pepe V., Cimorelli L., Della Morte R., Cozzolino L. (2021) The exact solution to the Shallow water Equations Riemann problem at width jumps in rectangular channel, *Advances in Water Resources* 155, 103993. Doi: 10.1016/j.advwatres.2021.103993.

**Autorizzazione trattamento dati
personali e firma**

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base al D. Lgs. 196/2003, coordinato con il D. Lgs. 101/2018, e al Regolamento UE 2016/679.

Napoli, 10 ottobre 2022

Luca Cozzolino

