

PUBBLICAZIONI STEFANO LANZONI

- Articoli su riviste internazionali recensite:

- [87] Sgarabotto, A., Bellizia, E., Finotello, A., D'Alpaos, A., LANZONI, S., Boaga, J., Cassiani, G., & Ghinassi, M. (2024). Reconstructing sediment distribution in meandering river deposits through a simplified numerical modelling approach, with applications to the Holocene deposits of the Venetian Plain (Italy). *Geological Society, London, Special Publications*, 540(1). <https://doi.org/10.1144/sp540-2022-220>
- [86] Geng, L., LANZONI, S., D'Alpaos, A., Sgarabotto, A., & Gong, Z. (2023). The sensitivity of tidal channel systems to initial bed conditions, vegetation and tidal asymmetry. *Journal of Geophysical Research: Earth Surface*, 128, 1–27. <https://doi.org/10.1029/2022JF006929> IF=4.418
- [85] Zhao, K., Coco, G., Gong, Z., Darby, S. E., LANZONI, S., Xu, F., Townend, I. (2022). A Review on Bank Retreat: Mechanisms, Observations, and Modeling. *Reviews of Geophysics*, 60(2), 1–51. <https://doi.org/10.1029/2021rg000761>. IF=24.946
- [84] Phillips, C. B., Francalanci, S., LANZONI, S., Merritts, D. J., Lajeunesse, E., & Jerolmack, D. J. (2022). Threshold constraints on the size, shape and stability of alluvial rivers. *Nature Reviews Earth & Environment*. <https://doi.org/10.1038/s43017-022-00282-z>. IF = 37.214
- [83] Tambroni, N., LANZONI, S., & Seminara, G. (2022). Eco - morphodynamics of coastal wetlands. *Rendiconti Lincei. Scienze Fisiche e Naturali*, (0123456789). <https://doi.org/10.1007/s12210-022-01070-z>. IF = 1.81
- [82] Sgarabotto, A., D'Alpaos, A., & LANZONI, S. (2021). Effects of Vegetation, Sediment Supply and Sea Level Rise on the Morphodynamic Evolution of Tidal Channels. *Water Resources Research*, 57(7). <https://doi.org/10.1029/2020wr028577>. IF = 4.309
- [81] Geng, L., D'Alpaos, A., Sgarabotto, A., Gong, Z., & Lanzoni, S. (2021). Intertwined eco-morphodynamic evolution of salt marshes and emerging tidal channel networks. *Water Resources Research*, 1–25. <https://doi.org/10.1029/2021wr030840>. IF = 4.309
- [80] Zhao, K., LANZONI, S., Gong, Z., & Coco, G. (2021). A numerical model of bank collapse and river meandering. *Geophysical Research Letters*, 1–10. <https://doi.org/10.1029/2021gl093516>. IF = 4.497
- [79] Valle-Levinson, A., Marani, M., Carniello, L., D'Alpaos, A., & LANZONI, S. (2021). Astronomic link to anomalously high mean sea level in the northern Adriatic Sea. *Estuarine, Coastal and Shelf Science*, 257(May), 107418. <https://doi.org/10.1016/j.ecss.2021.107418>. IF = 2.333
- [78] Simoni, A., Bernard, M., Berti, M., Boreggio, M., LANZONI, S., Stancanelli, L. M., & Gregoretti, C. (2020). Runoff-generated debris flows: Observation of initiation conditions and erosion–deposition dynamics along the channel at Cancia (eastern Italian Alps). *Earth Surface Processes and Landforms*, 45(14), 3556–3571. <https://doi.org/10.1002/esp.4981>. IF = 3.694
- [77] Geng, L., Gong, Z., Zhou, Z., LANZONI, S., & D'Alpaos, A. (2020). Assessing the relative contributions of the flood tide and the ebb tide to tidal channel network dynamics. *Earth Surface Processes and Landforms*, 45(1). <https://doi.org/10.1002/esp.4727>. IF = 3.694
- [76] Zolezzi, G., Carniello, L., D'Alpaos, A., LANZONI, S., & Tubino, M. (2020). River, Coastal and Estuarine Morphodynamics Selected papers from the 10th anniversary of the RCEM Symposium. *Earth Surface Processes and Landforms*, 45(5), 1311–1314. <https://doi.org/10.1002/esp.4823>. IF = 3.694
- [75] Francalanci, S., LANZONI, S., Solari, L., & Papanicolaou, A. N. (2020). Equilibrium cross section of river channels with cohesive erodible banks. *Journal of Geophysical Research: Earth Surface*, (125), 1–20. <https://doi.org/10.1029/2019JF005286>. IF = 4.253

- [74] Finotello, A., D'Alpaos, A., Bogoni, M., Ghinassi, M., & LANZONI, S. (2020). Remotely-sensed planform morphologies reveal fluvial and tidal nature of meandering channels. *Scientific Reports*, 10(1), 1–13. <https://doi.org/10.1038/s41598-019-56992-w>. IF = 4.011.
- [73] Finotello, A., D'Alpaos, A., Lazarus, E. D., & LANZONI, S. (2019). High curvatures drive river meandering. *Geology*, 47(10), E485–E485. IF = 5.06.
- [72] Xu, F., Coco, G., Tao, J., Zhou, Z., Zhang, C., LANZONI, S., D'Alpaos, A. (2019). On the morphodynamic equilibrium of a short tidal channel, *Journal of Geophysical Research: Earth Surface*, 124(2), 10.1029/2018JF004952. 639-665. IF = 3.337.
- [71] Viero, D., Lopez Dubon, S., LANZONI, S. (2019). Chute cutoffs in meandering rivers: formative mechanisms and hydrodynamic forcing. *Int. Assoc. Sedimentol. Spec. Publ.*, 47, 0000–0000.
- [70] Lopez Dubon, S., LANZONI, S. (2019). Meandering evolution and width variations: A physics-statistics-based modeling approach, *Water Resources Research*, 55(1), 76-94. IF = 4.361.
- [69] Gregoretti, C., Stancanelli, L.M., Bernard, M., Boreggio, M., Degetto, M., LANZONI, S., (2019). Relevance of erosion processes when modelling in-channel gravel debris flows for efficient hazard assessment, *Journal of Hydrology*, 568, 575-591. IF = 3.727.
- [68] Geng, L., Gong, Z., LANZONI, S., D'Alpaos, A. (2018). A new method for automatic definition of tidal creek networks, *Journal of Coastal Research*, 85,156-160.
- [67] Finotello, A., LANZONI, S., Ghinassi, M., Marani, M., Rinaldo, A., and D'Alpaos, A. (2018). Field migration rates of tidal meanders recapitulate fluvial morphodynamics. *Proceedings of the National Academy of Sciences*, 115(7), 1463–1468. doi:10.1073/pnas.1711330115. IF= 10.414.
- [66] LANZONI, S., Ferdousi, A., and Tambroni, N. (2018). River banks and channel axis curvature: Effects on the longitudinal dispersion in alluvial rivers. *Advances in Water Resources*, 113(October 2017), 55–72. doi:10.1016/j.advwatres.2017.10.033. IF = 3.221.
- [65] Fent, I., Putti, M., Gregoretti, C., and LANZONI, S. (2018). Modeling shallow water flows on general terrains. *Advances in Water Resources*, 121, 316-332 10.1016/j.advwatres.2017.12.017. IF = 3.221
- [64] Bogoni, M., M. Putti, and S. LANZONI (2017), Modeling meander morphodynamics over self-formed heterogeneous floodplains, *Water Resour. Res.*, 53, 5137–5157, doi:10.1002/2017WR020726. IF = 4.397
- [63] LANZONI, S., C. Gregoretti, and L. M. Stancanelli (2017), Coarse-grained debris flow dynamics on erodible beds, *J. Geophys. Res. Earth Surf.*, 122,592–614, doi: 10.1002/2016JF004046. IF = 3.412
- [62] Zhou, Z., Coco, G., Townend, I., Olabarrieta, M., van der Wegen, M., Gong, Z., D'Alpaos, A., Gao, S., Jaffe, B. E., Gelfenbaum, G., He, Q., Wang, Y., LANZONI, S., Wang, Z., Winterwerp, J., Zhang, C. (2017), Is “Morphodynamic Equilibrium” an oxymoron?, *Earth Science Reviews*, 165, 257–267, doi:10.1016/j.earscirev.2016.12.002. IF = 7.051
- [61] Gregoretti, C., M. Degetto, M. Bernard, G. Crucil, A. Pimazzoni, G. De Vido, M. Berti, A. Simoni, and S. LANZONI (2016), Runoff of small rocky headwater catchments: Field observations and hydrological modeling, *Water Resour. Res.*, 52, doi:10.1002/2016WR018675. . IF = 4.397
- [60] Bondoni, M., R. Mel, L. Solari, S. LANZONI, S. Francalanci, and H. Oumeraci (2016), Insights into lateral marsh retreat mechanism through localized field measurements, *Water Resources Research*,52, 1446–1464, doi:10.1002/2015WR017966. IF = 4.397
- [59] Hemmati, M., Ghomeshi, M., Ahmadi, H., LANZONI, S. (2015): Scour depth around flat and sloped crest bendway weirs: a laboratory study, *International Journal of River Basin Management*, <http://dx.doi.org/10.1080/15715124.2015.1085870>.
- [58] Tambroni, N., Figueredo da Silva, J., Duck, R. W., McLelland, S.J., Venier, C., LANZONI, S. (2015). Experimental investigation of the impact of macroalgal mats on the wave and current dynamics, *Advances in Water Resources*, <http://dx.doi.org/10.1016/j.advwatres.2015.09.010>. IF=4.349.

- [57] Stancanelli, L., LANZONI, S., Foti, E. (2015). Propagation and deposition of stony debris flows at channel confluences, *Water Resources Research*, 1(7), 5100-5116, DOI: 10.1002/2015WR017116. IF= 3.792.
- [56] Bogoni, M., Canestrelli, A., LANZONI, S. (2015). Finite volume modelling of a stratified flow with the presence of submerged weirs, *Journal of Applied Water Engineering and Research*, 3:1, 43-52, DOI: 10.1080/23249676.2015.1041066
- [55] Schwenk, J., S. LANZONI, and E. FOUFOULA-GEORGIU (2015), The life of a meander bend: Connecting shape and dynamics via analysis of a numerical model, *J. Geophys. Res. Earth Surf.*, 120, 690–710, doi:10.1002/2014JF003252. IF= 3.318.
- [54] Lanzoni, S., D'Alpaos, A. (2015), On funneling of tidal channels, *Journal of Geophysical Research: Earth Surface*, 120(3), 433-452, DOI: 10.1002/2014JF003203. IF=3.318
- [53] Bolla Pittaluga, M., Tambroni, N., Canestrelli, A., Slingerland, R., LANZONI, S., Seminara, G. (2015), Where river and tide meet: the morphodynamic equilibrium of alluvial estuaries, *Journal of Geophysical Research: Earth Surface*, 120(1), 75-94, DOI: 10.1002/2014JF003233. IF= 3.318.
- [52] LANZONI, S., Luchi, R., Bolla Pittaluga, M. (2015), Modeling the morphodynamic equilibrium of an intermediate reach of the Po River (Italy), *Advances in Water Res.*, 81, 95-102, 10.1016/j.advwatres.2014.11.004. IF=4.349.
- [51] Stancanelli L.M., Lanzoni, S., Foti, E. (2014), Mutual interference of two debris flow deposits delivered in a downstream river reach, *Journal of Mountain Sciences*, 11(6), 1385-1395, doi:10.1007/s11629-014-3051-z. IF=0.963.
- [50] Van Oyen, T., L. Carniello, A. D'Alpaos, S. Temmerman, P. Troch, and S. LANZONI (2014), An approximate solution to the flow field on vegetated intertidal platforms: Applicability and limitations, *Journal of Geophysical Research: Earth Surface*, n/a-n/a, doi:10.1002/2013jf003064. IF=3.346
- [49] Frascati, A., and S. LANZONI (2013), A mathematical model for meandering rivers with varying width, *Journal of Geophysical Research: Earth Surface*, 118, 1-17, doi:10.1002/jgrf.20084. IF=3.440
- [48] Canestrelli, A., LANZONI, S., Fagherazzi, S., (2013) One-dimensional numerical modeling of the long-term morphodynamic evolution of a tidally dominated estuary: The Lower Fly River (Papua New Guinea), *Sedimentary Geology*, <http://dx.doi.org/10.1016/j.sedgeo.2013.06.009>. IF = 2.134
- [47] Passalacqua, P., S. LANZONI, C. Paola, and A. Rinaldo (2013), Geomorphic signatures of deltaic processes and vegetation: The Ganges-Brahmaputra-Jamuna case study, *Journal of Geophysical Research: Earth Surface*, 118, 1-12, doi:10.1002/jgrf.20128. IF = 3.440.
- [46] Lanzoni, S. (2013), Evoluzione morfologica recente dell'asta principale del Po, *Accademia Nazionale dei Lincei*.
- [45] Van Oyen, T., S. LANZONI, A. D'Alpaos, S. Temmerman, P. Troch, and L. Carniello (2012). A simplified model for frictionally dominated tidal flows, *Geophys. Res. Lett.*, 39, L12403, doi:10.1029/2012GL051949. IF = 3.982
- [44] Singh, A., Guala, M., LANZONI, S., and FOUFOULA-GEORGIU E., (2012). Bedform effect on the reorganization of surface and subsurface grain size distribution in gravel bedded channels, *Acta Geophysica*, 60(6), 1607-1638, doi: 10.2478/s11600-012-0075-z. IF = 0.910
- [43] Canestrelli, A., S., Fagherazzi, and S. LANZONI (2012), A mass-conservative centered finite volume model for solving two-dimensional two-layer shallow water equation for fluid mud propagation over varying topography and dry areas, *Advances in Water Resour.*, 40 54–70, doi:10.1016/j.advwatres.2012.01.009. IF = 2.412
- [42] Venier, C., J., Figueiredo da Silva, S.J., McLelland, R.W., Duck, and S. LANZONI (2012), Experimental investigation on the impact of macroalgal mats on flow dynamics and sediment stability in shallow tidal areas, *Estuarine, Coastal and Shelf Science*, 112, 52-60, doi:10.1016/j.ecss.2011.12.035. IF = 2.490

- [41] Visconti, F., L., Stefanon, C., Camporeale, F., Susin, L., Ridolfi, and S. LANZONI (2012), Bed evolution measurement with flowing water in morphodynamic experiments, *Earth Surf. Process. and Landforms*, 37, 818–827, doi:10.1002/esp.3200, IF = 2.490
- [40] Seminara, G., S. LANZONI and G. Cecconi (2011), Coastal wetlands at risk: Learning from Venice and New Orleans, *Ecology & Hydrobiology*, 11(3), 183-202, doi: 10.2478/v10104-011-0040-5.
- [39] Singh, A., S. LANZONI, P. R. Wilcock, and E. Foufoula-Georgiou (2011), Multiscale statistical characterization of migrating bed forms in gravel and sand bed rivers, *Water Resour. Res.*, 47, W12526, doi:10.1029/2010WR010122. IF = 2.957.
- [38] Marani, M., A. D'Alpaos, S. Lanzoni and M. Santalucia (2011), Understanding and predicting wave erosion on marsh edges, *Geophys. Res. Letters*, 38, L21401, doi:10.1029/2011GL048995. IF = 3.792
- [37] Toffolon, M., and S. LANZONI (2010), Morphological equilibrium of short channels dissecting the tidal flats of coastal lagoons, *J. Geophys. Res.*, 115, F04036, doi:10.1029/2010JF001673. IF = 3.303
- [36] Canestrelli, A., S. Fagherazzi, A. Defina, and S. LANZONI (2010), Tidal hydrodynamics and erosional power in the Fly River delta, Papua New Guinea, *J. Geophys. Res.*, 115, F04033, doi:10.1029/2009JF001355. IF = 3.303
- [35] Gregoretti, C., Maltauro, A., LANZONI, S. (2010), Laboratory experiments on the failure of coarse homogeneous sediment natural dams on a sloping bed, *J. Hydraul. Eng.*, 136(11), 868-879, doi:10.1061/ASCEHY.1943-7900.0000259. IF = 1.227
- [34] Marani, M., A. D'Alpaos, S. LANZONI, L. Carniello, and A. Rinaldo (2010), The importance of being coupled: Stable states and catastrophic shifts in tidal biomorphodynamics, *J. Geophys. Res.*, 115, F04004, doi:10.1029/2009JF001600. IF = 3.303
- [33] Frascati, A., LANZONI, S., (2010), Long river meandering as a part of chaotic dynamics? A contribution from mathematical modelling, *Earth Surf. Process. Landforms.*, 35, 791-802, doi:10.1002/esp.1974. IF = 2.111
- [32] D'alpaos, A., LANZONI, S., Marani, M., Rinaldo, A., (2010), On the tidal prism-channel area relations, *J. Geophys. Res.* 115., F01003, doi:10. 1029/2008JF001243. IF = 3.303
- [31] Seminara, G., LANZONI, S., Tambroni, N., Toffolon, M., (2010), How long are tidal channels?, *J. Fluid Mech.*, First view Nov. 2009, doi: 10.1017/S0022112009992308. IF = 2.457
- [30] Stefanon, L., Carniello, L., D'Alpaos, A., LANZONI, S., (2010), Experimental analysis of tidal network growth and development, *Coast. Shelf Res.*, 30, 950-962, doi:10.1016/j.csr.2009.08.018. IF = 1.928
- [29] Righetti, M., LANZONI, S., (2009), Closure to "Experimental study of the flow field over bottom intake racks" by M. Righetti and S. Lanzoni, *J. Hydraul. Eng*, 135(10), 865-868. IF = 1.478
- [28] D'Alpaos, A., LANZONI, S., Marani, M., Rinaldo, A., (2009), On the O'Brien-Jarrett-Marchi law, *Rend. Fis. Acc. Lincei*, 20:225-236, doi:10.1007/s12210-009-0052-x.
- [27] Frascati, A., LANZONI, S., (2009), Morphodynamic regime and long-term evolution of meandering rivers, *J. Geophys. Res.*, 114, F02002, doi:10.1029/2008JF001101. IF = 3.082
- [26] Singh, A., LANZONI, S., Foufoula-Georgiu, E., (2008), Nonlinearity and complexity in gravel bed dynamics, *Stochastic Environ. Res. and Risk Assess.*, doi 10.1007/s00477-008-0269-8. IF = 0.951
- [25] LANZONI, S. (2008), Mathematical modelling of bedload transport over partially dry areas, *Acta Geophys.*, 56(3), pp. 734-752, doi:10.2478/s11600-008-0033-y. IF = 0.308
- [24] LANZONI, S., G. Seminara, and A. Siviglia (2008), Reply to comment by Cao and Hu on "Long waves in erodible channels and morphodynamic influence", *Water Resour. Res.*, 44, W06602, doi:10.1029/2007WR006188. IF = 2.398

- [23] Righetti, M., S. LANZONI (2008), Experimental study of the flow field over bottom intake racks, *J. Hydraul. Eng.*, 134(1), 15-22, doi:10.1061/(ASCE)0733-9429(2008)134:1(15). IF = 1.272
- [22] Marani, M., A. D'Alpaos, S. LANZONI, L. Carniello, A and A. Rinaldo (2007), Biologically controlled multiple equilibria of tidal landforms and the fate of the Venice Lagoon, *Geophys. Res. Letters*, 34, L11402, doi:10.1029/2007GL030178. IF = 2.959
- [21] D'Alpaos, A., S. LANZONI, M. Marani, A. Bonometto, G. Cecconi and A. Rinaldo (2007), Spontaneous tidal network formation within a constructed salt marsh: observations and morphodynamic modelling, *Geomorphology*, 91, 186-197. IF = 1.854
- [20] D'Alpaos, A., S. LANZONI, M. Marani, and A. Rinaldo (2007), Landscape evolution in tidal embayments: modelling the interplay of erosion, sedimentation, and vegetation dynamics, *J. Geophys. Res.-Earth Surface*, 112, F01008, doi:10.1029/2006JF000537. IF = 2.953
- [19] LANZONI, S., G. Seminara (2006), On the nature of meander instability, *J. Geophys. Res.-Earth Surface*, 111, F04006, doi:10.1029/2005JF000416. IF = 2.800
- [18] LANZONI, S., A., Siviglia, A. Frascati, and G. Seminara (2006), Long waves in erodible channels and morphodynamic influence, *Water Resour. Res.*, 42, W06D17, doi: 10.1029/2006WR004916. IF = 1.894
- [17] Marani, M., E. Belluco, S. Ferrari, S. Silvestri, A. D'Alpaos, S. LANZONI, A. Feola, A. Rinaldo (2006), Analysis, synthesis and modelling of high-resolution observations of salt-marsh ecogeomorphological patterns in the Venice lagoon, *Estuarine Coastal and Shelf Science*, 69, 414-426. IF = 1.784
- [16] D'Alpaos, A., LANZONI, S., Mudd, S.M., and Fagherazzi, S. (2006), Modelling the influence of hydroperiod and vegetation on the cross-sectional formation of tidal channels, *Estuarine, Coastal and Shelf Science*, 69, 311-324. IF = 1.784
- [15] Feola, A., Belluco, E., D'Alpaos, A., LANZONI, S., Marani, M., Rinaldo, A. (2005), A geomorphic study of lagoonal landforms, *Water Resour. Res.*, 41, W06019, doi:10.1029/2004WR003811. IF = 1.939
- [14] D'Alpaos, A., LANZONI, S., Marani, M., Fagherazzi, S., Rinaldo, A. (2005), Tidal network ontogeny: channel initiation and early development, *J. Geophys. Res.-Earth Surface*, 110, F02001, doi:10.1029/2004JF000182. IF = 2.784
- [13] Marani, M., LANZONI, S., Silvestri, S., Rinaldo, A. (2004), Tidal landforms, patterns of halophytic vegetation and the fate of the lagoon of Venice, *J. Marine Syst.*, 51(1-4), 191-210. IF = 1.940
- [12] Marani M., E. Bellucco, A. D'Alpaos, A. Defina, S. LANZONI, A. Rinaldo (2003), On the drainage density of tidal networks, *Water Resour. Res.*, 39(2), 1040, doi:10.1029/2001WR001051.
- [11] M. Marani, S. LANZONI, D. Zandolin, G. Seminara, A. Rinaldo (2002), Tidal meanders, *Water Resour. Res.*, 38(11), 1225, doi:10.1029/2001WR000404.
- [10] LANZONI, S., G. Seminara (2002), Long term evolution and morphodynamic equilibrium of tidal channels, *J. Geophys. Res.-Oceans*, 107(C1), 10.1029/2000JC000468.
- [9] Solari L., G. Seminara, S. LANZONI, M. Marani and A. Rinaldo (2002), Sand bars in tidal channels. Part two: Tidal meanders, *J. Fluid Mech.*, 451, 203-238.
- [8] LANZONI, S. (2000), Experiments on Bar formation in a straight flume. Part 2: Graded Sediment, *Water Resour. Res.*, 36(11), 3351-3363.
- [7] LANZONI, S. (2000), Experiments on Bar formation in a straight flume. Part 1: Uniform Sediment, *Water Resour. Res.*, 36(11), 3337-3349.
- [6] LANZONI, S., Tubino, M. (1999), Grain sorting and bar instability, *J. Fluid Mech.*, 393, 149-174.
- [5] Defina, A., LANZONI, S. and Susin, F. (1999), Stability of a stratified viscous shear flow in a tilted tube, *Physics of Fluids*, 11(2), 344-355.

- [4] Rinaldo A., S. Fagherazzi, S. LANZONI, M. Marani, W. E. Dietrich (1999), Tidal networks 3. Landscape-forming discharges and studies in empirical geomorphic relationship, *Water Resour. Res.*, 35(12), 3919-3929.
- [3] Rinaldo A., S. Fagherazzi, S. LANZONI, M. Marani, W. E. Dietrich (1999), Tidal networks 2. Watershed delineation and comparative network morphology, *Water Resour. Res.*, 35(12), 3905-3917.
- [2] Fagherazzi S., A. Bortoluzzi, W. E. Dietrich, A. Adami, S. LANZONI, M. Marani, A. Rinaldo (1999), Tidal networks 1. Automatic network extraction and preliminary scaling features from DTMs, *Water Resour. Res.*, 35(12), 3891-3904.
- [1] LANZONI, S., G. Seminara (1998), On tide propagation in convergent estuaries, *J. Geophys. Res.-Oceans*, 103(C13), 30.793-30.812.

- Articoli recensiti su libri

- [5] Lanzoni, S. (2022). Morphodynamic Modeling of Alluvial Rivers and Floodplains. In *Treatise on Geomorphology* (2nd ed., pp. 83–104). Elsevier Inc. <https://doi.org/10.1016/B978-0-12-818234-5.00154-1>
- [4] D'Alpaos A., S. LANZONI, A. Rinaldo, and M. Marani, Intertidal eco-geomorphological dynamics and hydrodynamic circulation In: *Coastal Wetlands: an ecosystem approach*, edited by Perillo, Perillo et al. (Eds.), Elsevier, 2008.
- [3] Rinaldo A., Belluco E., D'Alpaos A., Feola A., LANZONI S. and Marani M., Tidal networks: form and function. In: *The Ecogeomorphology of Salt Marshes*, edited by Fagherazzi S., Marani M., and Blum L.K., Coastal and Estuarine Studies 59, American Geophysical Union, Washington, p. 75-91, 2004.
- [2] G. Seminara, S. LANZONI, L. Solari, M. Bolla Pittaluga, Estuarine patterns: An Introduction to their Morphology and Mechanics. In: *Geomorphological Fluid Mechanics*, edited by N. J. Balmforth and A. Provenzale, Lecture notes in Physics, Springer Verlag, Berlin, p. 455-499, 2001.
- [1] A. Rinaldo, S. LANZONI, M. Marani, River and tidal networks. In: *River, Coastal and Estuarine Morphodynamics*, edited by Seminara G., Bloendeaux P., Springer-Verlag, Berlin, p. 191-211, 2000.

- Articoli su riviste nazionali:

- [3] LANZONI, S. , M. Tubino, Experimental observations on bar development in cohesionless channels, *Excerpta*, 14, 119-152, 2000.
- [2] S. Fagherazzi, S. LANZONI, M. Marani, A. Rinaldo, Sulle reti a marea della Laguna di Venezia, *Atti dell'Istituto Veneto di Scienze Lettere ed Arti, Classe di Scienze Fisiche Matematiche e Naturali*, 161 II, 1999.
- [1] Tubino, M., LANZONI, S., Rheology of debris flows: experimental observations and modelling problems. *Excerpta*, 7, 201-236, 1993.

- Articoli su Atti di Convegni Nazionali ed Internazionali

- [88] Amini H., Zen S., Monegaglia, F, LANZONI, S., Tubino, M., and Zolezzi, G. Modelling the planform development of confined meandering rivers. *River Flow 2020 – Proceedings of the 10th Conference on Fluvial Hydraulics*, Online, 7-10 July 2020.
- [87] Francalanci, S., Solari, L, LANZONI, S., On the equilibrium width of rivers with cohesive erodible banks. *River Flow 2020 – Proceedings of the 10th Conference on Fluvial Hydraulics*, Online, 7-10 July 2020.
- [86] Sgarabotto A., D'Alpaos A., LANZONI, S., Modelling the plano-altimetric equilibrium morphology of tidal channels: interplay between sediment supply, sea-level rise, and

- vegetation growth. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [85] Mel R., Bendoni M., Steffinlongo D., Solari L., LANZONI, S., Salt marsh retreat mechanism at different time scales. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [84] Zen S., Bogoni M., Zolezzi G., LANZONI, Quantifying the effect of valley confinements on the long-term evolution of meandering rivers. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [83] Tambroni N., Ferdousi A., LANZONI, Longitudinal dispersion in straight alluvial rivers. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [82] Francalanci S., LANZONI, S., Solari L. and Papanicolaou A.N., Equilibrium width for sand and gravel bed rivers with cohesive erodible banks. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [81] Bogoni M., Nittrouer J.A., Cantelli A., LANZONI, S., Numerical modelling of meander morphodynamics affected by internal boundary conditions. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [80] Gong Z., Geng L., Zhang C., LANZONI, S., D'Alpaos, A., Physical modelling of tidal network evolution: the influence of tide asymmetry. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [79] Lopez Dubon, S., Viero, D., Bogoni, M. LANZONI, S., Width variation meandering evolution with a physics-statistics based mathematical model. *10th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Padua, Italy, 15-22 September 2017.
- [78] Putti, M., Facca, E., and LANZONI, S., Connecting source aggregating areas with distributive regions via Optimal Transportation theory, AGU 2016 Fall Meeting, San Francisco, USA, 12-16 December 2016.
- [77] Zen, S., Bogoni, M., Zolezzi, G., and LANZONI, S., Modeling the long-term planform evolution of meandering rivers in confined alluvial valleys: Etsch-Adige River, NE Italy, AGU 2016 Fall Meeting, San Francisco, USA, 12-16 December 2016.
- [76] Bogoni, M., Nittrouer, J.A., Cantelli A., and LANZONI, S., Modeling the meander morphodynamics with internal boundary conditions given by a localized variation in the flow field, AGU 2016 Fall Meeting, San Francisco, USA, 12-16 December 2016.
- [75] Lopez Dubon, S., Viero, D.P. & LANZONI, S., Chute cutoff initiation and flow field inside the main channel bed, IDRA 2016, Bologna, 14-16 September 2016.
- [74] Sgarabotto, A., D'Alpaos, A. & LANZONI, S., Modelling the effects of vegetation on the plano-altimetric equilibrium morphology of tidal channels, IDRA 2016, Bologna, 14-16 September 2016.
- [73] Bernard, M., Stancanelli, L.M., Berti, M., Simoni, A., Gregoretti, C., & LANZONI, S., Field observations of runoff generated debris flows occurred at Rovina di Cancia (Venetian Dolomites), IDRA 2016, Bologna, 14-16 September 2016.
- [72] Bogoni, M., LANZONI S., Effetti dell'eterogeneità della piana alluvionale sulla migrazione di meandri fluviali, IDRA 2016, Bologna, 14-16 settembre 2016.
- [71] Sgarabotto, A., D'Alpaos, A., LANZONI S., Modelling the role of vegetation on the equilibrium morphology of salt-marsh channels, ECSA 56, Bremen, Germany, 4-7 September 2016.
- [70] Stancanelli, L.M.,E. Foti, LANZONI S., Physical modelling of debris flow deposits in contiguous confluences. 8th International Conference on Scour and Erosion, Mathematical Institute, Oxford, UK, 12-15 September 2016.
- [69] Stancanelli, L., Bernard, M., Gregoretti, C., Berti, M., Simoni, A., LANZONI S., Debris flow monitoring experience in the Cancia basin (Dolomites, Northeast Italian Alps). EGU General Assembly 2016, Vienna, A, 17-22 April 2016.

- [68] LANZONI S., Gregoretti, C., Non-local rheology of stony debris flow propagating over a cohesionless sediment bed. EGU General Assembly 2016, Vienna, Austria, 17-22 April 2016.
- [67] LANZONI S., D'Alpaos, A. Modelling the Plano-Altimetric Equilibrium Morphology of Tidal Channels. EsCoSed workshop - The influence of muds and cohesive sediments on tidal and non-tidal estuaries, Senigallia, 7-9 July 2015.
- [66] Bondoni, M., Mel, R., Francalanci, S. Oumeraci, H., LANZONI S., Solari, Field monitoring of a retreating salt marsh in the Lagoon of Venice. 36th IAHR World Congress, Delft - The Hague, The Netherlands, 28 June - 3 July 2015.
- [65] Bogoni, M. Canestrelli, A., LANZONI S., Elementi speciali nella modellazione ai volumi finiti di correnti di densità: applicazione numerica al Fiume Adige. XXXIV Convegno di Idraulica e Costruzioni Idrauliche, Brescia, 8-10 settembre 2014.
- [64] Tambroni, N. Bolla Pittaluga, M., Canestrelli, A., LANZONI S., G. Seminara, Sull'equilibrio morfodinamico di estuari alluvionali, XXXIV Convegno di Idraulica e Costruzioni Idrauliche, Brescia, 8-10 settembre 2014.
- [63] Fent, I., Stancanelli L.M., Canestrelli, A., Gregoretti, C. LANZONI S., Monitoraggio dei deflussi in piccoli bacini dolomitici di alta quota e relativa modellazione idrologica. XXXIV Convegno di Idraulica e Costruzioni Idrauliche, Brescia, 8-10 settembre 2014.
- [62] Crucil, G., Pizzamoni, A., Bernard, M., Degetto, M., Gregoretti, C., LANZONI S., Modellazione di colate detritiche ai volumi finiti: simulazione delle fasi iniziali di erosione e di transizione dalla fase liquida al miscuglio solido-liquido. XXXIV Convegno di Idraulica e Costruzioni Idrauliche, Brescia, 8-10 settembre 2014.
- [61] LANZONI S., Models of river Meanders. 3rd *IAHR Europe Congress*, Porto, Portugal, 14-16 April 2014.
- [60] LANZONI S., D'Alpaos, A., Plano-altimetric equilibrium morphology of tidal channels, EGU General Assembly, Vienna, 26 April - May 2014.
- [59] LANZONI S., Bogoni, M., Putti, M., Numerical Simulations of Floodplain Heterogeneity Effects on Meanders Migration, AGU 2014 Fall Meeting, San Francisco, USA, 15-19 December 2014.
- [58] LANZONI S., Frascati, A., A mathematical model for meandering rivers with varying width. *1th Yalin Colloquium*, Palermo, 28-29 November 2013.
- [57] Stancanelli L., LANZONI S., Foti, E., Experimental investigations of depositions in a river reach of debris flows generated in two contiguous tributaries. *XXXV IAHR Congress*, Chengdu (Cina), 8-13 september 2013.
- [56] Passalacqua, P., LANZONI S., Paola, C., Rinaldo, A., The signature of delta forming processes, vegetation, and anthropogenic disturbance in the Ganges-Brahmaputra delta. *8th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Santander, Spain, 9-13 June 2013.
- [55] Van Oyen, T., LANZONI S., D'Alpaos, A., Temmerman, S. Troch, P., Carniello, L. S., A simplified approach to describe the flow field on vegetated intertidal platforms. *8th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Santander, Spain, 9-13 June 2013.
- [54] D'Alpaos, A., LANZONI S., On the plano-altimetric equilibrium configuration of tidal channels. *8th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Santander, Spain, 9-13 June 2013.
- [53] Schwenk, J., LANZONI S., Foufoula-Georgiou, E., A backwards-in-time Lagrangian framework for extraction of meander bend dynamics: use in meander classification, process diagnostics, and model comparison, AGU 2013 Fall Meeting, San Francisco, USA, 9-13 December 2013.
- [52] LANZONI S., D'Alpaos, A., Equilibrium morphology of tidal channels, CERF 2013 Conference, San Diego, USA, 3-7 November 2013.

- [51] LANZONI S., Evoluzione morfologica recente dell'asta principale del Fiume Po. *Accademia Nazionale dei Lincei*, XII Giornata Mondiale dell'Acqua, Roma, 22 marzo 2012.
- [50] Gregoretti, C., LANZONI S., Foti, E., Calcolo della portata di una colata detritica originata dall'erosione di un letto di sedimenti per deflusso superficiale. *XXXII Convegno di Idraulica e Costruzioni Idrauliche*, Brescia, 10-15 settembre 2012.
- [49] Stancanelli, L., LANZONI S., Foti, E., Arresto di colate detritiche generate dall'interferenza di più confluente: Analisi preliminare di una indagine di laboratorio. *XXXII Convegno di Idraulica e Costruzioni Idrauliche*, Brescia, 10-15 settembre 2012.
- [48] Van Oyen, T., LANZONI S., D'Alpaos, A., Temmerman, S., Carniello, L. A simplified model to describe the flow field on tidal floodplains, EGU General Assembly, Vienna, 22-27 April 2012.
- [47] Barbaro, J., Toffolon, M., Putti, M., LANZONI S., Distance of channels draining tidal flats, AGU Chapman Conference, Reston, Virginia, USA, 13-16 November 2012.
- [46] Canestrelli, A., Fagherazzi, S., LANZONI S., Numerical modeling of the morphodynamic evolution of long tidally-dominated river estuaries, AGU 2012 Fall Meeting, San Francisco, USA, 3-7 December 2012.
- [45] Stancanelli, L., LANZONI S., Foti, E., Experimental investigation on debris flow propagation and deposition in a downstream river by multiple tributaries, AGU 2012 Fall Meeting, San Francisco, USA, 3-7 December 2012.
- [44] Francalanci, S., LANZONI S., Macovei, D., Solari, L., Equilibrium Cross-section for River Channel with Cohesive Erodible Banks, AGU 2012 Fall Meeting, San Francisco, USA, 3-7 December 2012.
- [43] Frascati A. Bolla Pittaluga M., LANZONI S., Assessing the role of suspended sediment on bend instability process. *7th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Beijing, China, september 2011.
- [42] Toffolon M., LANZONI S., Equilibrio morfologico dei canali nei bassofondi lagunari. *XXXII Convegno di Idraulica e Costruzioni Idrauliche*, Palermo, 14-17 settembre 2010.
- [41] Seminara G., LANZONI S., Tambroni N., Toffolon M., Sulla lunghezza di equilibrio dei canali a marea. *XXXII Convegno di Idraulica e Costruzioni Idrauliche*, Palermo, 14-17 settembre 2010.
- [40] D'Alpaos A., Da Lio C., Carniello L., LANZONI S., Rinaldo A., Marani M., Equilibri stabili e transizioni in sistemi a marea soggetti a cambiamenti climatici. *XXXII Convegno di Idraulica e Costruzioni Idrauliche*, Palermo, 14-17 settembre 2010.
- [39] Canestrelli, A., Defina, A., LANZONI S., Fagherazzi, S., Erosional power and morphodynamic tendencies in the Fly River Delta, Papua New Guinea. *6th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Vionnet, Garcia, Latrubesse & Perillo (eds), Taylor and Francis Group, London, Vol. 1, 355-361, Santa Fe, Argentina, 2009, ISBN/ISSN:978-0415-54841-0.
- [38] Marani, M., D'Alpaos, A., Da Lio, C., Carniello, L., LANZONI S., Rinaldo, A., The importance of being coupled: stable states, transitions and responses to changing forcings in tidal bio-morphodynamics. *6th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Vionnet, Garcia, Latrubesse & Perillo (eds), Taylor and Francis Group, London, Vol. 2, 533-540, Santa Fe, Argentina, 2009, ISBN/ISSN:978-0415-56689-6.
- [37] Nardi L., Francalanci S., Mengoni B., Rinaldi M., Solari L., LANZONI S., Processi di arretramento delle sponde nei cordi d'acqua in ghiaia, *Atti del XXXI Convegno di Idraulica e Costruzioni Idrauliche*, Perugia 9-12 Settembre 2008, Morlacchi Ed., ISBN/ISSN: 978-88-6074-220-9.
- [36] Maltauro A., LANZONI S., Gregoretti C., Quota critica di invaso per il collasso di uno sbarramento omogeneo di materiale incoerente in un alveo inclinato, *Atti del XXXI*

Convegno di Idraulica e Costruzioni Idrauliche, Perugia 9-12 Settembre 2008, Morlacchi Ed., ISBN/ISSN: 978-88-6074-220-9.

- [35] D'Alpaos A., LANZONI S., Marani M., Rinaldo A., Un modello di evoluzione morfodinamica di bacini a marea, *Atti del XXXI Convegno di Idraulica e Costruzioni Idrauliche*, Perugia 9-12 Settembre 2008, Morlacchi Ed., ISBN/ISSN: 978-88-6074-220-9.
- [34] Stefanon, L., Defina A., LANZONI S., Susin F., D'Alpaos L., Caratteristiche morfologiche di reti a marea generate in laboratorio, *Atti del XXXI Convegno di Idraulica e Costruzioni Idrauliche*, Perugia 9-12 Settembre 2008, Morlacchi Ed., ISBN/ISSN: 978-88-6074-220-9.
- [33] D'Alpaos A., LANZONI S., Marani M., Rinaldo A., Long-term eco-morphodynamic evolution of lagoonal systems, *32th Congress of IAHR, Harmonizing the Demands of Art and Nature in Hydraulics*, CORILA, Venice, Vol. I, SS16-050, p. 235, ISBN 88-89405-06-6, 2007.
- [32] Tesser G., D'Alpaos A., LANZONI S., Morphological characteristics of laboratory generated tidal networks, *5th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Dohmen & Hulscher (eds), 2007 Taylor and Francis Group, London, Vol. 2, 771-777, Enschede, The Netherlands, 2007.
- [31] Marani M., D'Alpaos A., LANZONI S., Carniello L., Rinaldo A., Multiple equilibria in tidal eco-geomorphology, *5th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Dohmen & Hulscher (eds), 2007 Taylor and Francis Group, London, Vol. 1, 263-269, Enschede, The Netherlands, 2007.
- [30] D'Alpaos A., LANZONI S., Marani M., Rinaldo A., Landscape evolution in tidal embayments: Modeling the interplay of erosion, sedimentation, and vegetation dynamics, *5th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Dohmen & Hulscher (eds), 2007 Taylor and Francis Group, London, Vol. 1, 247-254, Enschede, The Netherlands, 2007.
- [29] Canestrelli A., Defina A., LANZONI S., D'Alpaos L., Long-term evolution of tidal channels flanked by tidal flats, *5th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Dohmen & Hulscher (eds), 2007 Taylor and Francis Group, London, Vol. 1, 145-153, Enschede, The Netherlands, 2007.
- [28] Frascati A., LANZONI S., Long-term behaviour of meandering rivers, *5th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Dohmen & Hulscher (eds), 2007 Taylor and Francis Group, London, Vol. 2, 839-846, Enschede, The Netherlands, 2007.
- [27] D'Alpaos A., LANZONI S., Evoluzione morfodinamica a lungo termine della sezione trasversale di canali a marea, *Atti del XXIX Convegno di Idraulica e Costruzioni Idrauliche, Roma, settembre 2006*.
- [26] Frascati, A., LANZONI, S., Caratteristiche a lungo termine dello sviluppo planimetrico di alvei meandriciformi *Atti del XXIX Convegno di Idraulica e Costruzioni Idrauliche, Roma, settembre 2006*.
- [25] LANZONI, S., Federici, B. and Seminara, G., On the convective nature of bend instability, *Proceedings of the 4th Conference on River, Coastal and Estuarine Morphodynamics, RCEM - Parker & Garcia (eds)*, 2006 Taylor and Francis Group, London, 719-724, october 2005.
- [24] D'Alpaos A., S. Fagherazzi, and S. LANZONI, On the cross-sectional evolution of tidal channels, *Proceedings of the 4th Conference on River, Coastal and Estuarine Morphodynamics, RCEM - Parker & Garcia (eds)*, 2006 Taylor and Francis Group, London, 617-628, october 2005.
- [23] Feola A., E. Belluco, A. D'Alpaos, S. LANZONI, M. Marani, & A. Rinaldo, Geomorphological properties of a lagoonal system, *Proceedings of the 4th Conference on River, Coastal and Estuarine Morphodynamics, RCEM - Parker & Garcia (eds)*, 2006 Taylor and Francis Group, 645-652, october 2005.
- [22] D'Alpaos A., S. LANZONI, M. Marani, & A. Rinaldo, On the morphodynamic evolution of tidal environments, *Proceedings of the 4th Conference on River, Coastal and Estuarine*

Morphodynamics, RCEM - Parker & Garcia (eds), 2006 Taylor and Francis Group, London, 597-607, October 2005.

- [21] LANZONI, S., Determinazione del coefficiente di dispersione longitudinale in una sequenza regolare di meandri, *Atti del XXIX Convegno di Idraulica e Costruzioni Idrauliche*, Trento, settembre 2004.
- [20] Feola, A., E. Belluco, A. D'Alpaos, S. LANZONI, M. Marani, A. Rinaldo, Sulle proprietà di scala nella morfologia di reti a marea, *Atti del XXIX Convegno di Idraulica e costruzioni idrauliche*, Trento, settembre 2004.
- [19] D'Alpaos, A., S. LANZONI, M. Marani, A. Rinaldo, Evoluzione morfologica a lungo termine di bacini a marea: ontogenesi della rete, *Atti del XXIX Convegno di Idraulica e costruzioni idrauliche*, Trento, settembre 2004.
- [18] Marani M., S. Silvestri, E. Belluco, M. Camuffo, A. D'Alpaos, A. Defina, S. LANZONI, A. Marani, M. Tortato, A. Rinaldo, Patterns in tidal environments: salt-marsh channel networks and vegetation, *Proc. of the IEEE International Geoscience & Remote Sensing Symposium*, Toulouse, 2003.
- [17] Cestaro, S., Cossu, R., LANZONI, S., Raga, R., Analysis of pressure field in a landfill during in situ aeration for waste stabilization, *Proc. of IX International Waste Management and Landfill Symposium*, Cagliari, Italy, 6-10 October, 2003.
- [16] Defina, A., LANZONI, S., Simulazione numerica dell'evoluzione di barre alternate. *Atti del XXVIII Convegno di Idraulica e Costruzioni Idrauliche*, Potenza, 2002.
- [15] M. Righetti, R. Rigon, S. LANZONI, Indagine sperimentale del deflusso attraverso una griglia di fondo a barre longitudinali, *Atti del XXVII Convegno di Idraulica e Costruzioni Idrauliche*, Genova, 2000.
- [14] A. Defina, S. LANZONI, C. D'Alpaos, Modellazione numerica del trasporto di sedimenti in presenza di piccole profondità, *Atti del XXVII Convegno di Idraulica e Costruzioni Idrauliche*, Genova, 2000.
- [13] M. Marani, S. LANZONI, D. Zandolin, A. Rinaldo, L'analisi morfologica delle reti a marea, *Atti del XXVII Convegno di Idraulica e Costruzioni Idrauliche*, Genova, 2000.
- [12] F. Susin, A. Defina, S. LANZONI, Sulla stabilità di un moto parallelo di fluido stratificato lentamente variabile nel tempo, *Atti del XXVII Convegno di Idraulica e Costruzioni Idrauliche*, Genova, 2000.
- [11] F. Susin, A. Defina, S. LANZONI, Linear stability of a stratified shear flow slowly varying in time. *5th International Symposium on Stratified Flows*, Vancouver Canada, 2000.
- [10] LANZONI, S., Seminara, G., Sull'equilibrio morfodinamico degli estuari. *Atti del XXVI Convegno di Idraulica e Costruzioni Idrauliche*, Catania, 9-12 Settembre 1998, Vol. I, pp. 333-344, 1998.
- [9] Defina, A., LANZONI, S., Susin, F., Sulla stabilità di un moto parallelo accelerato di fluido viscoso eterogeneo. *Atti del XXVI Convegno di Idraulica e Costruzioni Idrauliche*, Catania, 9-12 Settembre 1998, Vol. I, pp. 65-76, 1998.
- [8] LANZONI, S., Tubino, M., Effetto dell'assortimento granulometrico sulla formazione di barre alternate. *Atti del Seminario: Nuovi Sviluppi Applicativi dell'Idraulica dei Corsi d'Acqua*, Bressanone, 27-31 Gennaio 1997, pp. 357 - 387, 1997.
- [7] Defina, A., LANZONI, S., Susin, F., Indagine teorica e sperimentale sulla stabilità di correnti stratificate. *Atti del XXV Convegno di Idraulica e costruzioni Idrauliche*, Torino, 16-18 Settembre 1996, Vol. III, pp. 439-450, 1996.
- [6] LANZONI, S., Zardi D., Stima del coefficiente di dispersione longitudinale in un alveo meandriforme. *Atti del XXIV Convegno di Idraulica e Costruzioni Idrauliche*, Napoli, 20-22 Settembre, pp. T1-155,166, 1994.
- [5] LANZONI, S., Bruno, S., Tubino, M., Formazione di Barre alternate in alvei incoerenti a granulometria non uniforme. *Atti del XXIV Convegno di Idraulica e Costruzioni Idrauliche*, Napoli, 20-22 Settembre, pp. T4-171,181, 1994.

- [4] Defina, A., LANZONI, S., Bruno, S., Sulla stabilità di una corrente linearmente stratificata. *Atti del XXIV Convegno di Idraulica e Costruzioni Idrauliche*, Napoli, 20-22 Settembre, pp. S1-27-37, 1994.
- [3] LANZONI, S. and Seminara, G., Debris waves. *Proceedings XXV IAHR Congress*, vol. III, pp. 79-85, Tokio, Japan, 1993.
- [2] LANZONI, S. and Tubino, M., Rheometric experiments on mature debris flows. *Proceedings XXV IAHR Congress*, vol. III, pp. 47-54, Tokio, Japan, 1993.
- [1] LANZONI, S., Osservazioni sperimentali sul moto di miscugli granulari in canali a forte pendenza, *Atti del XXIII Convegno di Idraulica e Costruzioni Idrauliche*, Firenze, 31 Agosto-4 Settembre, pp. D-269-279, 1992.

- Abstract e Sommari

- Bernard, M., Stancanelli, L., Berti, M., Simoni, A., Gregoretti, C. e LANZONI, S., Field observations of runoff generated debris flows occurred at Rovina di Cancia (Venetian Dolomites), XXXV Convegno Nazionale di Idraulica e Costruzioni Idrauliche, Bologna, 14-16 Settembre 2016
- Bogoni, M., and LANZONI, S., Effetti dell'eterogeneità della piana alluvionale sulla migrazione di meandri fluviali, XXXV Convegno Nazionale di Idraulica e Costruzioni Idrauliche, Bologna, 14-16 Settembre 2016
- Sgarabotto, A., D'Alpaos, A., and LANZONI, S., Modelling the role of vegetation on the equilibrium morphology of salt-marsh channels, ECSA 56, Coastal Systems in Transition, Bremen (D), 4 -7 September 2016
- LANZONI, S., Putti, M., Connecting source aggregating areas with distributive regions via Optimal Transportation theory, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 12-16 December 2016
- Bogoni, M., Nittrouer, J., Cantelli, A. and LANZONI, S., Modeling the meander morphodynamics with internal boundary conditions given by a localized variation in the flow field, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 12-16 December 2016
- Zen, S., Bogoni, M., Zolezzi, G., and LANZONI, S., Modeling the long-term planform evolution of meandering rivers in confined alluvial valleys: Etsch-Adige River, NE Italy, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 12-16 December 2016
- Sgarabotto, A., D'Alpaos, A., and LANZONI, S., Modelling the role of vegetation on the equilibrium morphology of salt-marsh channels, ECSA 56, Coastal Systems in Transition, Bremen (D), 4 -7 September 2016
- Gregoretti, C. and LANZONI S., Non-local rheology of stony debris flow propagating over a cohesionless sediment bed, European Geophysical Union (EGU), Vienna (A), April 2016
- L. M. Stancanelli, M. Bernad, C. Gregoretti, M. Berti, A. Simoni, and LANZONI S., Debris flow monitoring experience in the Cancia basin (Dolomites, Northeast Italian Alps), European Geophysical Union (EGU), Vienna (A), April 2016
- Finotello, A., D'Alpaos, A., Ghinassi, M., and LANZONI S., Migration Rate Of Tidal Meanders: Inferences From The Venice Lagoon, European Geophysical Union (EGU), Vienna (A), April 2016
- Gregoretti, C., M. Bernard, M. Degetto, B. Matteo, S. Alessandro, and LANZONI S., The hydrological response of a rocky head water basin to convective rainfalls, European Geophysical Union (EGU), Vienna (A), 12-17 April 2015
- Finotello, A., A. D'Alpaos, M. Ghinassi, S. LANZONI, M. Marani, and A. Rinaldo, Analysis of Meander Migration Rates in Tidal Landscapes, European Geophysical Union (EGU), Vienna (A), 12-17 April 2015

- Schwenk, J., LANZONI, S., FOUFOULA-GEORGIU, E., 2013. A backwards-in-time Lagrangian framework for extraction of meander bend dynamics: use in meander classification, process diagnostics, and model comparison, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 9-13 December 2013.
- Schwenk, J., LANZONI, S., FOUFOULA-GEORGIU, E., 2013. A backwards-in-time Lagrangian framework for extraction of meander bend dynamics: use in meander classification, process diagnostics, and model comparison, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 9-13 December 2013.
- LANZONI, S., D'ALPAOS, A., 2013. Equilibrium Morphology of tidal channels. *CERF*, San Diego (USA), November 2013.
- Van Oyen, T., S. LANZONI, A. D'ALPAOS, S. TEMMERMAN, P. TROCH and L. CARNIELLO, 2013. A simplified approach to describe the flow field on vegetated intertidal platforms. *8th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Santander, Spain, June 2013.
- D'ALPAOS, A., LANZONI, S., 2013. On the plano-altimetric equilibrium configuration of tidal channels. *8th Symposium on River, Coastal and Estuarine Morphodynamics-RCEM*, Santander, Spain, June 2013.
- Passalacqua, P., LANZONI, S., PAOLA, C., RINALDO, A., 2012. Analysis of the Ganges-Brahmaputra deltaic network: The signature of delta forming processes, vegetation and anthropogenic disturbance, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 3-7 December 2012.
- Francalanci, S., LANZONI, S., MACOVEI, D., SOLARI, L., 2012. Equilibrium Cross-section for River Channel with Cohesive Erodible Banks, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 3-7 December 2012.
- Stancanelli, L., LANZONI, S., FOTI, E., 2012. Experimental investigation on debris flow propagation and deposition in a downstream river by multiple tributaries, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 3-7 December 2012.
- Canestrelli, A., Fagherazzi, S., LANZONI, S., 2012. Numerical modeling of the morphodynamic evolution of long tidally-dominated river estuaries, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 3-7 December 2012.
- Van Oyen, T., LANZONI, S., D'ALPAOS, A., TEMMERMAN, S., TROCK, P., CARNIELLO, L., 2012. A simplified model to describe the flow field on tidal floodplains, European Geosciences Union (EGU), General Assembly, Vienna (Austria), 22-27 April 2012.
- Barbaro J., Toffolon M., Putti M. and LANZONI S., 2012. Distance of channels draining tidal flats, AGU Chapman Conference: *Hydrogeomorphic Feedbacks and Sea Level Rise in Tidal Freshwater River Ecosystems*, 13-16 November 2012.
- Canestrelli, A., LANZONI, S., Fagherazzi, S., 2011. Hydrodynamic and Morphodynamic indicators in a long tidal river: the Fly River example, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 5-9 December 2011.
- Frascati, A., LANZONI, S., 2011, A linear model for meandering rivers with arbitrarily varying width, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 5-9 December 2011.
- LANZONI, S., Santalucia, M., D'ALPAOS, A., Marani, M., 2010. Analysis of the erosion of marsh boundaries produced by wind-wave impact in a shallow tidal basin, American Geophysical Union (AGU), Fall Meeting, San Francisco (USA), 13-17 December 2010
- A. Frascati, S. LANZONI, Long timescale planform evolution of meandering channels, General Assembly of the European Geosciences Union, Vienna, aprile 2008.
- Marani, M., A. D'ALPAOS, S. LANZONI, L. CARNIELLO, A. RINALDO, Multiple Equilibria and Abrupt Transitions in Tidal Eco-Morphodynamics, General Assembly of the European Geosciences Union, Vienna, aprile 2008.
- Frascati A., LANZONI S., Long-term evolution of meandering rivers, American Geophysical Union Fall meeting (AGU) 10-14 Dicembre 2007, San Francisco, CA, USA.

- Marani, M., A. D'Alpaos, S. LANZONI, L. Carniello, and A. Rinaldo, Stable states and catastrophic shifts in tidal eco-morphodynamics, Annual Meeting of the American Geophysical Union, San Francisco, dicembre 2007.
- D'Alpaos, A., S. LANZONI, M. Marani, and A. Rinaldo, Landscape evolution in tidal embayments: modelling the interplay of erosion, sedimentation, and vegetation dynamics, Eos Transactions AGU, Fall Meet. Suppl., American Geophysical Union, S. Francisco, dicembre 2006.
- D'Alpaos, A., S. LANZONI, M. Marani, and A. Rinaldo (2006), Modelling the long-term eco-morphodynamic evolution of tidal environments, ECSA 41st International Conference, Measuring and Managing Changes in estuaries and lagoons , Venezia, ottobre 2006.
- D'Alpaos, A., S. LANZONI, M. Marani, and A. Rinaldo (2005), Long-term eco-geomorphological evolution of tidal environments, Eos Transactions AGU, Fall Meet. Suppl., American Geophysical Union, S. Francisco, dicembre 2005.
- D'Alpaos, A., S. LANZONI, M. Marani, and A. Rinaldo (2005), On the morphodynamic evolution of tidal environments, European Geosciences Union, 2nd General Assembly, Vienna, aprile 2005.
- Marani, M., E. Belluco, M. Camuffo, A. D'Alpaos, A. Feola, S. Ferrari, S. LANZONI, A. Marani, L. Modenese, A. Rinaldo, S. Silvestri, Observations and ecogeomorphological modelling of intertidal environments, European Geosciences Union, 1st General Assembly, Vienna, aprile 2005.
- D'Alpaos, A., S. LANZONI, M. Marani, S. Fagherazzi, and A. Rinaldo, Long-term morphological evolution of tidal embayments: Channel Network incision and early development, AGU Fall Meeting, dicembre 2004.
- Feola, A., E. Belluco, A. D'Alpaos, S. LANZONI, M. Marani, A. Rinaldo, Scale-dependent features of tidal networks, *European Geosciences Union, 1st General Assembly, Nice, France, 25-30 April 2004.*
- D'Alpaos A., S. Fagherazzi, S. LANZONI, M. Marani, A. Rinaldo, Long-term morphological evolution of tidal embayments: channel network initiation and development, *European Geosciences Union, 1st General Assembly, Nice, France, 25-30 April 2004.*
- Rinaldo A., A. Feola, A. D'Alpaos, S. LANZONI, M. Marani, A Note on Eco-geomorphology of Tidal Landscapes, *AGU Chapman Conference on Salt Marsh Geomorphology: Physical and Ecological Effects on Landform*, Halifax, Nova Scotia, Canada, October 2004.
- D'Alpaos A., Fagherazzi S., Marani M., LANZONI S., and Rinaldo A., Cross-sectional evolution of tidal channels, *AGU Chapman Conference on Salt Marsh Geomorphology: Physical and Ecological Effects on Landform*, Halifax, Nova Scotia, Canada, October 2004.
- D'Alpaos A., S. LANZONI, M. Marani, S. Fagherazzi, and A. Rinaldo, Long-term morphological evolution of tidal embayments: channel incision and early development, *American Geophysical Union, Transactions, Fall Meeting, 2004.*
- Marani, M., E. Belluco, M. Camuffo, A. D'Alpaos, A. Defina, S. LANZONI, A. Marani, S. Silvestri, A. Rinaldo, Remote sensing of tidal morphology and vegetation, *IGARRS IEEE Conference*, Tolosa, 2003.
- Marani, M., E. Belluco, M. Camuffo, A. D'Alpaos, A. Defina, S. LANZONI, A. Marani, S. Silvestri, A. Rinaldo, Salt-marsh patterns: networks and vegetation, *ELOISE Conference*, Gdansk, 2003.
- D'Alpaos A., Fagherazzi S., Marani M., LANZONI S., Defina A., and Rinaldo A., Channel Initiation and Competition in Tidal Environments, *American Geophysical Union, Transactions, Fall Meeting, 2003.*
- Marani M., S. Silvestri, E. Belluco, M. Camuffo, A. D'Alpaos, A. Defina, S. LANZONI, A. Marani, M. Tortato, A. Rinaldo, Patterns in tidal environments: salt-marsh channel networks and vegetation, *Southern European Coastal Lagoons: The Influence of River Basin-Coastal Zone interactions*, Castello Estense, Ferrara, Italy, 10-12 November 2003.

- D'Alpaos A., E. Belluco, A. Defina, S. LANZONI, M. Marani, A. Rinaldo, Geomorphic-hydrodynamic characterization of tidal channel networks, *EGS-AGU-EUG Joint Assembly*, Nice (France), 06-11 April 2003
- Marani M., S. Silvestri, E. Belluco, M. Camuffo, A. D'Alpaos, A. Defina, S. LANZONI, A. Marani, M. Tortato, A. Rinaldo, Patterns in tidal environments: salt-marsh channel networks and vegetation, *European Conference on Coastal Zone Research: an ELOISE approach*, Gdansk, Poland, 24-27 March 2003.
- Marani M., S. Silvestri, E. Belluco, M. Camuffo, A. D'Alpaos, S. LANZONI, A. Marani, A. Rinaldo, Patterns in tidal environments: salt-marsh channel networks and vegetation, *Eos Transactions AGU*, 84(46), *Fall Meet. Suppl.*, *American Geophysical Union*, S. Francisco, 8-12 December 2003.
- Rinaldo, A., S. LANZONI, M. Marani, Comparative geomorphologic organization of river and tidal networks, *Eos Transactions AGU*, *Fall Meet. Suppl.*, *American Geophysical Union*, S. Francisco, 8-12 December 2003.
- Marani, M., A. D'Alpaos, A. Defina, S. LANZONI, S. Silvestri, A. Rinaldo, Salt-marsh patterns: networks and vegetation, *Eos Transactions AGU*, 83(19), *Spring Meet. Suppl.*, *American Geophysical Union*, Washington, 2002.
- Marani, M., E. Belluco, A. D'Alpaos, A. Defina, S. LANZONI, G. Seminara, A. Rinaldo, A., On the geomorphology of tidal environments: the lagoon of Venice, in *Scientific Research and SafeGuarding of Venice, CORILA Research Program 2001 Results*, Istituto Veneto di Scienze Lettere ed Arti, 661-678, Venice, Italy, 2002.
- D'Alpaos A., A. Defina, S. LANZONI, M. Marani e A. Rinaldo, "Modello matematico di evoluzione morfodinamica a lungo termine di reti di canali a marea", in *Scientific Research and Safeguarding of Venice, Corila Research Program 2001 Results*, 2002.
- Marani, M., S. LANZONI, D. Zandolin, G. Seminara, A. Rinaldo, Tidal Meanders, *Suppl.*, *supplement to Annales Geophysicae*, vol. 4, *European Geophysical Society*, XXVII General Assembly, Nizza, 2002.
- Marani, M., A. D'Alpaos, A. Defina, S. LANZONI, S. Silvestri, A. Rinaldo, Salt-marsh patterns: networks and vegetation, *Eos Transactions AGU*, 83(19), *Spring Meet. Suppl.*, *American Geophysical Union*, Washington, 2002.
- Rinaldo, A., M. Marani, E. Belluco, A. D'Alpaos, A. Defina, S. LANZONI, The drainage density of Tidal Networks, *Eos Transactions AGU*, 82(47), *Fall Meet. Suppl.*, *American Geophysical Union*, S. Francisco, 2001.
- LANZONI, S., M. Marani, D. Zandolin and A. Rinaldo, Tidal Meanders, *European Geophysical Society*, XXIV General Assembly, supplement to Annales Geophysicae, 19, 2000.
- Rinaldo, A., S. LANZONI, M. Marani, River vs tidal networks, *Eos Transactions*, *Fall Meeting*, *American Geophysical Union*, San Francisco, 2000.
- Rinaldo, A. W.E. Dietrich, S. Fagherazzi, S. LANZONI, M. Marani, Watershed Delineation of Salt-Marsh Channels and Comparative Network Morphology, *Fall Meeting*, *American Geophysical Union*, San Francisco, EOS supplement, 212, 1999.
- LANZONI, S., Tubino, M., Grain sorting effects on alternate bar formation. *International Workshop on Interactive Issues of Flood and Environment in Cold Regions*, Trento, October 1996.

- Pubblicazioni didattiche

LANZONI, S., *Dinamica degli inquinanti nei corpi idrici superficiali*. Dipartimento ICEA, Università di Padova, 2012.

LANZONI, S., *Determinazione del coefficiente di dispersione in un alveo meandriforme*. Dipartimento ICEA, Università di Padova, 2012.

LANZONI, S., *Moti a bassi numeri di Reynolds e stabilità idrodinamica*. Dipartimento ICEA, Università di Padova, 2012.

- LANZONI, S., Some random notes on stratified flows. Dipartimento ICEA, Università di Padova, 2011.
- LANZONI, S., Soluzione numerica delle equazioni di delle correnti a superficie libera. Università di Padova, 2011.
- LANZONI, S., Some notes on Stratified Flows. Dipartimento IMAGE, Università di Padova, 2002.
- LANZONI, S., Le Equazioni della Meccanica dei Fluidi. Dipartimento IMAGE, Università di Padova, 2002.
- LANZONI, S., Appunti dalle Lezioni del Corso di Idrodinamica. Dipartimento IMAGE, Università di Padova, 1998.