

CURRICULUM VITAE STEFANO LANZONI



Nome: **Stefano Lanzoni**

Place and date of birth: Bagnolo di Po (Ro), Italy, 14 October 1962

DEGREES:

- C.E., honors (110/110 /summa cum laude), University of Padua (Italy), February 1988;
- PhD in Hydrodynamics, University of Padua, 1993.

EMPLOYMENT RECORD:

- Full Professor of Fluid Mechanics, School of Engineering, University of Padua, 2011-
- Associate Professor, Faculty of Engineering, University of Padua, 2002-2011
- *Confirmed Assistant Professor*, Faculty of Engineering, University of Padua, 1994-2002
- *Post-Doc Researcher*, Delft Hydraulics Laboratory (Netherlands), 1995;
- *Assistant Professor*, Faculty of Engineering, University of Padua, 1991-1994.

FURTHER ACADEMIC DUTIES:

- *Director of the PhD School of "Civil and Environmental Engineering Sciences"*, University of Padua, 2008- ;
- *President of the Master Course of "Mathematical Engineering "*, University of Padua, 2016-;
- *Coordinator of the Master Course of "Mathematical Engineering "*, University of Padua, 2014-2016;
- *Member of the Scientific Board of the PhD School of "Civil and Environmental Engineering Sciences"*, University of Padua, 2004-2008;
- *Member of the Scientific Board of the PhD program "Environmental Engineering"*, University of Padua, 2002-2004;
- *Member of the Scientific Board of the PhD program "Hydrodynamics and Environmental Modeling"*, Inter-university Consortium Padua, Genoa, Trento and Florence, 1999-2002;

VISITING RESEARCHER:

- Boston University (USA): /04/2012, /05/2013;
- University of Minneapolis (USA): /03/2008.

RESEARCH INTERESTS:

- Fluvial morphodynamics
Alternate bar dynamics, sediment waves, planform evolution of meandering rivers, sediment transport, debris flows.
- Tidal morphodynamics
Hydrodynamic and morphodynamics of estuaries and deltas; longitudinal equilibrium profile and cross-section of tidal channels; flow field and morphologic characteristics of tidal meanders; mathematical modeling of tidal environments; eco-morphology.

- Hydrodynamics

Stability of stratified flows; hydrodynamic dispersion; hydraulics of bed intake grids.

- Author of more than 100 articles, among which 54 on peer reviewed journals.
<http://orcid.org/0000-0002-6621-2386> ResearcherID WOS: F-9852-2016
- Times cited without self citations: 1354 (source: ISI WOS).
- h-index: 24 (source: ISI WOS); 24 (source: Scopus);

SELECTED PUBLICATIONS:

- 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=3.430
- 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=3.420.
- 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= 3.500.
- Frascati, A., and S. LANZONI (2013), A mathematical model for meandering rivers with varying width, *J. Geophys. Res.*, 118, 1-17, doi:10.1002/jgrf.20084. IF=3.44.
- 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.
- 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.
- 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.
- 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.*, 112, F01008, doi:10.1029/2006JF000537. IF=2.953.
- LANZONI, S., G. Seminara (2006), On the nature of meander instability, *J. Geophys. Res.*, 111, F04006, doi:10.1029/2005JF000416. IF=2.800.
- 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, *Estuar. Coast. Shelf Sci.*, 69, 311-324. IF=1.733.
- D'Alpaos, A., LANZONI, S., Marani, M., Fagherazzi, S., Rinaldo, A. (2005), Tidal network ontogeny: channel initiation and early development, *J. Geophys. Res.*, 110, F02001, doi:10.1029/2004JF000182. IF=2.784.
- LANZONI, S., G. Seminara (2002), Long term evolution and morphodynamic equilibrium of tidal channels, *J. Geophys. Res.*, 107(C1), 10.1029/ 2000JC000468. IF=2.245.
- LANZONI, S. (2000), Experiments on Bar formation in a straight flume. Part 1: Uniform Sediment, *Water Resour. Res.*, 36(11), 3337-3349. IF=1.640.
- LANZONI, S., Tubino, M. (1999), Grain sorting and bar instability, *J. Fluid Mech.*, 393, 149-174. IF=1.686.
- LANZONI, S., G. Seminara (1998), On tide propagation in convergent estuaries, *J. Geophys. Res.*, 103(C13), 30.793-30.812. IF=2.577.

INVITED LECTURES AND SEMINARS:

- *Gilbert Club, 33rd Annual Meeting, UC Berkeley (USA)*. Keynote speech: "Tidal and fluvial meanders: two partially overlapping worlds?", December 17, 2016.

- *University of Granada, Department of Structure Mechanics and Hydraulic Engineering.* Invited Seminar: "Morphodynamic of tidal Environments", January 29, 2016.
- *2nd, Estuary Day Whorkshop, 2015, Nanjing (China),* "Morphodynamic equilibrium of tidal channels", October 13-15, 2015.
- *3rd, IAHR Europe Congress, 2014, Porto (Portugal),* "Models of meandering rivers", April 15, 2014.
- *Institute for Marine and Atmospheric research, University of Utrecht (NL),* "Morphodynamics of tidal channels", September 10, 2013.
- *Woods Hole Oceanographic Institution, Falmouth, Ma (USA),* "Morphodynamic equilibrium of tidal channels", April 20, 2012.
- *Accademia Nazionale dei Lincei,* "Evoluzione morfologica dell'asta del Fiume Po", March 22, 2012.
- *EAWAG Aquatic Research Institute,* "Dynamics of eco-geomorphic pattern in the Venice Lagoon", Kastanienbaum - Lucerne, CH, october 2011.
- *St. Anthony Falls Laboratory, University of Minnesota,* Department Seminar: "Long term evolution of meandering channels", Minneapolis, Minnesota, USA, March 2008.
- *Boston University,* Department Seminar: "Morphodynamics of tidal environments", Boston, Massachusetts, USA, March 2008.
- *38th Binghamton Geomorphology Symposium,* Keynote Lecture: "Dynamics of eco-geomorphic patterns in tidal environments", Duke University, Durham, North Carolina, USA, October 2007.
- *5th Symposium on River, Coastal and Estuarine Morphodynamics - RCEM,* Keynote Lecture: "Free morphodynamic behaviour, current issues on meandering", Enschede, The Netherlands, September 2007.
- *Florida State University,* Department Seminar: "Tidal Morphodynamics", Tallahassee, Florida, USA, December 2003.

COORDINATION ACTIVITIES:

- *President, GII (Italian Hydraulic Group), 2016-;*
- *Vice-president, GII (Italian Hydraulic Group), 2014-2016 ;*
- *Member, Scientific Committee CINID (Inter-university Hydrology Consortium), 2013- ;*
- *Member, Scientific Committee GII (Italian Hydraulic Group), 2012- ;*
- *Member, GII (Italian Hydraulic Group) National Committee for coordinating the hydraulic curricula of Italian PhD Schools, 2010- ;*
- *Director, Hydraulic Laboratory of the Department of Hydraulic, Coastal, Environmental and Geotechnical Engineering, University of Padua, 1998-2007;*
- *Coordinator of the LOC for the 10th Symposium on River, Coastal and Estuarine Morphodynamics - RCEM, Padua, Italy, 2017.*
- *Member, Scientific Committee 8th Symposium on River, Coastal and Estuarine Morphodynamics - RCEM, Santander, Spain, 2013.*
- *Member, Scientific Committee 7th Symposium on River, Coastal and Estuarine Morphodynamics - RCEM, Bejin, China, 2011.*
- *Member, Scientific Committee 6th Symposium on River, Coastal and Estuarine Morphodynamics - RCEM, Santa Fe, Argentina, 2009.*
- *Member, Local Organizing Committee "XXXII IAHR Congress", Venice, 2007.*
- *Coordinator, project GAPDEMM, "GIS-based integrated platform for Debris Flow Monitoring, Modeling and Hazard Mitigation", Cariparo Foundation, 2012-2015;*
- *Scientific Coordinator, research project "Morphodynamics of tidal environments under the action of natural forcing and climate change", University of Padua, 2010-2012;*
- *National Scientific Coordinator, research project "Eco-Morphodynamics of tidal environments and climate change", PRIN, 2008-2011;*
- *Scientific Coordinator, project "Updating the morphological plan of the Venice lagoon", Venice Water Management Authority, 2008-2010;*
- *Scientific Coordinator, project MoDiTe, "Generation, propagation and transport models for the territory safeguarding", Cariverona Foundation, 2006-2008;*
- *Scientific Coordinator, research project "Analysis of the morphodynamic behaviour of meandering rivers", University of Padua, 2004-2006;*

- *Local Scientific Coordinator, research project COFIN-MIUR ex 40% "Morphodynamic of alluvial rivers", 2001;*

FURTHER ACTIVITIES:

- Reviewer for: *Water Resources Research; Journal of Geophysical Research; Journal of Hydraulic Engineering, ASCE; Journal of Hydraulic Research, IAHR; Limnology and Oceanography; Journal of Fluid Mechanics; Proceedings of Royal Society, Advances in Water Resources, Science, Catena.*
- Reviewer for:
ANVUR, PRIN ex 40%, FIRB, CIVR, National Science Foundation (USA), Technology Foundation STW (NL), Austrian Science Fund (A), European Research Council (EU), Agencie Nationale del la Recherche (FR).

TEACHING ACTIVITIES:

- Fluid Mechanics 1 (Degree course in Aerospace Engineering), 2003- ;
- *Fluid Mechanics 2* (degree course in Aerospace Engineering), 2003- ;
- Pollutant dynamics (degree course in Environmental Engineering), 2000- ;
- Hydraulic Measurements (master degree course in Civil Engineering), 2000-2003;
- *Pollutant dynamics* (master degree in Land Reclamation and Irrigation), 2006-2007;
- *Sediment transport and fluvial morphodynamics* (Master in Soil Protection), 2002-2003;
- *Hydraulic infrastructures* (degree course in Construction Engineering), 1998-1999;
- Advisor of the following PhD students: Silvia Bruno, Carlo Gregoretti, Sergio Fagherazzi, Andrea D'Alpaos, Hervè Gregoire Mazzocco Alessandro Frascati, Alberto Canestrelli, Alessandra Feola; Cesare Corrado; Chiara Venier; Laura Stancanelli, Jvan Barbaro, Amena Ferdousi, Sergio Lopez Doubon, Manuel Bogoni, Alessandro Sgarabotto.

APPLIED RESEARCH ACTIVITIES:

- Calibration of current meters, flow meters, valves, manometers for public (e.g., ARPAV), and private companies.
- Experimental study of the waves generated by boats in a confined environment, Municipality of Venice.
- Determination of the discharge rating curve in the Virgilio channel, Monzambano (Mn), Italy, Consorzio di Bonifica Alta e Media Pianura Mantovana;
- Electro pump testing, Martinella water lifting plant, Ostellato (Fe), Italy, MISA s.r.l., Electro-hydraulic plants.
- Testing of a mechanic link-up system for P.R.F.V. pipes and PEMD shaft basins, KMC s.r.l. Environmental Technology (Italy).
- Testing of a Mosquito Stopper device, to be used within shaft basins, SistemAmbiente s.r.l. (Italy).
- Hydraulic testing of nozzles for water fountains, Magie d'Acqua s.r.l. (Italy).

Publications:

- Papers on peer-reviewed journals:

- [59] Bendoni, 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*, n/a-n/a, doi:10.1002/2015wr017966.
- [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=3.420.
- [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= 3.500.
- [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. Fofoula-Georgiou (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= 3.430.
- [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=3.430
- [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= 3.430.
- [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=3.420.
- [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.
- [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.
- [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>.
- [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.
- [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.

- [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.
- [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
- [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*, doi:10.1016/j.ecss.2011.12.035
- [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*, published online, doi:10.1002/esp.3200.
- [40] Seminara, G., S. LANZONI and G. Cecconi (2011), Coastal wetlands at risk: Learning from Venice and New Orleans, *Ecology & Hydrobiology*, Vol 11, No. 3-4, doi: 10.2478/v10104-011-0040-5.
- [39] Singh, A., S. LANZONI, P. R. Wilcock, and E. FOUFOULA-GEORGIU (2011), Multiscale statistical characterization of migrating bed forms in gravel and sand bed rivers, *Water Resour. Res.*, 47, W12526, doi:10.1029/2010WR010122.
- [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.
- [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.
- [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.
- [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.
- [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.
- [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.
- [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.
- [31] Seminara, G., LANZONI, S., Tambroni, N., Toffolon, M., (2009), How long are tidal channels?, *J. Fluid Mech.*, First view Nov. 2009, doi: 10.1017/S0022112009992308.
- [30] Stefanon, L., Carniello, L., D'Alpaos, A., LANZONI, S., (2009), Experimental analysis of tidal network growth and development, *Coast. Shelf Res.*, 20:225-236, doi:10.1016/j.csr.2009.08.018.
- [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 .
- [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.
- [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.

- [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.
- [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.
- [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).
- [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.
- [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.
- [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.
- [19] LANZONI, S., G. Seminara (2006), On the nature of meander instability, *J. Geophys. Res.-Earth Surface*, 111, F04006, doi:10.1029/2005JF000416.
- [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.
- [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.
- [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.
- [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.
- [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.
- [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.
- [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.