

LIST OF PUBLICATIONS (REVERSE CHRONOLOGICAL ORDER)

Journal Papers (peer-reviewed)

- J.14 Smith, E.R, **D'Alessandro, F.**, Tomasicchio, G.R., Gailani, J.Z. (2017). Nearshore placement of a sand dredged mound. *Coastal Engineering*, 126, 1-10.
- J.13 **D'Alessandro, F.**, Tomasicchio, G.R. (2016). Wave-dune interaction and beach resilience in large-scale physical model tests. *Coastal Engineering*, 116, 15-25.
- J.12 Tomasicchio, G.R., **D'Alessandro, F.**, Barbaro, G., Musci, E., De Giosa, T.M. (2015). Longshore transport at shingle beaches: an independent verification of the general model. *Coastal Engineering*, 104, 69-75.
- J.11 Salvadori, G., Durante, F., Tomasicchio, G.R., **D'Alessandro, F.** (2015). Practical guidelines for the multivariate assessment of the structural risk in coastal and off-shore engineering. *Coastal Engineering*, 95, 77-83.
- J.10 Salvadori, G., Tomasicchio, G.R., **D'Alessandro, F.** (2014). Practical guidelines for multivariate analysis and design in coastal engineering. *Coastal Engineering*, 88, 1-14.
- J.9 Tomasicchio, G.R., **D'Alessandro, F.**, Barbaro, G., Malara, G. (2013). General longshore transport model. *Coastal Engineering*, 71, 28-36.
- J.8 Salvadori, G., Tomasicchio, G.R., **D'Alessandro, F.** (2013). Multivariate approach to design coastal and off-shore structures. *Journal of Coastal Research*, SI(65), Vol. 1, 386-391.
- J.7 Tomasicchio, G.R., **D'Alessandro, F.** (2013). Wave energy transmission through and over low crested breakwaters. *Journal of Coastal Research*, SI(65), Vol. 1, 398-403.
- J.6 Sancho, F., Abreu, T., **D'Alessandro, F.**, Tomasicchio, G.R., Silva, P.A. (2011). Surf hydrodynamics under collapsing coastal dunes. *Journal of Coastal Research*, SI(64), 144-148.
- J.5 D'Alessandro, F., Tomasicchio, G.R., Frega, F., Carbone, M. (2011). Design and management aspects of a coastal protection system. A case history in the South of Italy. *Journal of Coastal Research*, SI(64), 492-495.
- J.4 Tomasicchio, G.R., **D'Alessandro, F.**, Barbaro G. (2011). Composite modelling for large-scale experiments on wave-dune interactions. *Journal of Hydraulic Research*, Vol. 49, No. S1, 15-19.
- J.3 Tomasicchio, G.R., Sanchez Arcilla, A., **D'Alessandro, F.**, Ilic, S., James, M., Fortes, C.J.E.M., Sancho, F., Schüttrumpf, H. (2011). Large-scale flume experiments on dune erosion processes. *Journal of Hydraulic Research*, Vol. 49, No. S1, 20-30.
- J.2 Tomasicchio, G.R., **D'Alessandro, F.**, Musci, F. (2010). A multi-layer capping of a coastal area contaminated with materials dangerous to health. *Chemistry and Ecology*, Vol. 26(1), 155-168.
- J.1 **D'Alessandro, F.**, Tomasicchio, G.R. (2008). The BCI criterion for the initiation of breaking process in Bousinesq type equations wave models. *Coastal Engineering*, 55, 1174-1184.

Conference Proceedings Papers (refereed)

- C.57 Principato, F., **D'Alessandro, F.**, Tomasicchio, G.R., Francone, A. (2017). Dune-forming and dune restoration interventions at a Site of Community Importance: a case study. Proceedings 8th SCACR – *International Short Conference on Applied Coastal Research*, Santander, in press.
- C.56 Riefolo, L., Tomasicchio, G.R., Pantusa, D., Avossa, A.M., Ricciardelli, F., **D'Alessandro, F.**, Vicinanza, D. (2017). Experimental study of the dynamic response of a spar buoy floating structure under wind and wave action. Proceedings 8th SCACR – *International Short Conference on Applied Coastal Research*, Santander, in press.
- C.55 Hamza, W., Tomasicchio, G.R., Al Qubaisi, B., Ligorio, F., **D'Alessandro, F.** (2017). Morphodynamic and environmental response of Saadiyat beach in Abu Dhabi under development scenarios. Proceedings 8th SCACR – *International Short Conference on Applied Coastal Research*, Santander, in press.
- C.54 Barbaro, G., Tomasicchio, G.R., Dattilo, F., **D'Alessandro, F.**, Foti, G., Frega, F. (2017). Una nuova procedura di trasposizione geografica dei dati del moto ondoso. Proceedings 38° *Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 269-282.
- C.53 Tomasicchio, G.R., **D'Alessandro, F.**, Francone, A., Ligorio, F. (2017). Recent improvements for estimation of longshore transport. Proceedings 38° *Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 259-267.
- C.52 Tomasicchio, G.R., Avossa, A.M., Riefolo, L., Ricciardelli, F., Musci, E., **D'Alessandro, F.**, Vicinanza, D. (2017). Dynamic modelling of a spar buoy wind turbine. Proceedings of the 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2017), Trondheim, in press.

- C.51 Tomasicchio, G.R., Cortese, M., Parlange, G., **D'Alessandro, F.**, Francione, A., Ligorio, F. (2016). Intervento a protezione di un collegamento HVDC in mare. *Proceedings 37° Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 237-243.
- C.50 Tomasicchio, G.R., **D'Alessandro, F.**, Ligorio, F. (2016). The disappearance of the beach along the San Lucido's coastline. *Proceedings 80° Prof. G.C. Frega, Università della Calabria, in press.*
- C.49 Riefolo L., Lanfredi, C., Azzellino, A., Vicinanza, D., Tomasicchio, G.R., **D'Alessandro, F.**, Penchev, V. (2016). Offshore wind turbines: an overview of the effects on the marine environment. *Proceedings ISOPE International Society of Offshore and Polar Engineers*, Rhodes, 427-434.
- C.48 Tomasicchio, G.R., Dattilo, F., Barbaro, G., Foti, G., **D'Alessandro, F.**, Ligorio, F. (2016). Geographical shifting of deep water wave data based on Jonswap method. *Proceedings 35th International Conference on Coastal Engineering*, Istanbul, *in press.*
- C.47 Dentale, F., Reale, F., **D'Alessandro, F.**, Damiani, L., Di Leo, A., Pugliese-Carratelli, Tomasicchio, G.R. (2016). Sampling bias in the estimation of significant wave height extreme values. *Proceedings 35th International Conference on Coastal Engineering*, Istanbul, *in press.*
- C.46 Tomasicchio, G.R., **D'Alessandro, F.**, Barbaro, G., Ciardulli, F., Francione, A., Mahmoudi Kurdistan, S. (2016). General model for estimation of longshore transport at shingle/mixed beaches. *Proceedings 35th International Conference on Coastal Engineering*, Istanbul, *in press.*
- C.45 **D'Alessandro, F.**, Tomasicchio, G.R., Chiaia, G., Ciardulli, F., Francione, A. (2016). Numerical modelling of breaker depth index. *Proceedings 35th International Conference on Coastal Engineering*, Istanbul, *in press.*
- C.44 Salvadori, G., Tomasicchio, G.R., **D'Alessandro, F.**, Musci, E., El-Shorbagy, W., El-Hakeem, A.B. (2015). Multivariate coastal and off-shore design and risk assessment via copulas at the Arabian Gulf. *Proceedings ASCE-COPRI Coastal Structures & Solutions to Coastal Disaster Joint Conference*, Boston, *in press.*
- C.43 Tomasicchio, G.R., Musci, E., **D'Alessandro, F.** (2015). General model for longshore transport at any coastal body. *Proceedings ASCE-COPRI Coastal Structures & Solutions to Coastal Disaster Joint Conference*, Boston, *in press.*
- C.42 Tomasicchio, G.R., **D'Alessandro, F.** (2015). Turbine eoliche galleggianti soggette all'azione congiunta di moto ondoso e vento. *Proceedings Studi di Aggiornamento AIOM – Tecniche e tecnologie nelle costruzioni marittime e off-shore*, Genova, printed on-line.
- C.41 Levanto, P., Traldi, M.D., Tomasicchio, G.R., **D'Alessandro, F.** (2015). Innovative consolidation of sand dunes against erosion: first field case study. *Proceedings 7th SCACR – International Short Conference on Applied Coastal Research*, Firenze, *in press.*
- C.40 Tomasicchio, G.R., **D'Alessandro, F.**, Musci, E., Damiani, L. (2015). Physical and numerical modeling on off-shore floating wind turbines. *Proceedings 36° Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 859-879.
- C.39 Damiani, L., Musci, E., Tomasicchio, G.R., **D'Alessandro, F.** (2015). Spar buoy numerical model calibration and verification. *Proceedings VI International Conference on Computational Methods in Marine Engineering MARINE 2015*, Roma, 814-824.
- C.38 Tomasicchio, G.R., **D'Alessandro, F.**, De Giosa, T.M., Campanaro V., Musci, E. (2015). Evaluation and remediation of a contaminated coastal environment: Torre Quetta case study. *Proceedings IX International Workshop on Evaluation in Planning Strategies for the Environment: Evaluating and Planning for Extreme Events*, Bari, printed on-line.
- C.37 Tomasicchio, G.R., **D'Alessandro, F.**, Musci, E., Fonseca, N., Mavrakos, S.A., Kirkegaard, J., Katsaounis, G.M., Penchev, V., Schüttrumpf, H., Wolbring, J., Armenio, E. (2014). Physical model experiments on floating off-shore wind turbines. *Proceedings HYDRALAB IV Joint User Meeting*, Lisbon, printed on-line.
- C.36 **D'Alessandro, F.**, Tomasicchio, G.R. (2014). Longshore transport at shingle beaches. *Proceedings 3rd IAHR Europe Congress*, Porto, printed on-line.
- C.35 Salvadori, G., Tomasicchio, G.R., **D'Alessandro, F.** (2013). Multivariate analysis for the influence of climate change on maritime structures design. *Proceedings SISC First Annual Conference, Advances in Climate Science*, Lecce, printed on-line.
- C.34 Tomasicchio, G.R., **D'Alessandro, F.**, Frega, F. (2013). On dune erosion modelling. *Proceedings 34° Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 699-708.
- C.33 **D'Alessandro, F.**, Tomasicchio, G.R. (2012). Modelling of collapsing coastal dunes. *Proceedings International Conference on the Application of Physical Modelling to Port and Coastal protection - Coastlab 12*, Ghent, 708-715.

- C.32 Tomasicchio, G.R., **D'Alessandro, F.**, Frega, F. (2012). Il trasporto litoraneo in corrispondenza di qualsiasi struttura costiera. Proceedings 33° *Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 643-654.
- C.31 Salvadori, G., Tomasicchio, G.R., **D'Alessandro, F.** (2012). A bivariate approach to coastal engineering. Proceedings XXXIII *Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Brescia, printed on CD-ROM.
- C.30 **D'Alessandro, F.**, Tomasicchio, G.R., Tundo, G. (2012). Estimation of wave transmission at low-crested structures. Proceedings XXXIII *Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Brescia, printed on CD-ROM.
- C.29 Tomasicchio, G.R., Armenio, E., **D'Alessandro, F.**, Fonseca, N., Mavrakos, S.A., Penchev, V., Schüttrumpf, H., and Voutsinas, S. (2012). Design of a 3D physical and numerical experiment on floating off-shore wind turbines. Proceedings 33th *International Conference on Coastal Engineering*, Santander, printed on-line, paper n. structures.67.
- C.28 **D'Alessandro, F.**, Tomasicchio, G.R., Musci, F., Ricca, A. (2012). Dune erosion physical, analytical and numerical modelling. Proceedings 33rd *International Conference on Coastal Engineering*, Santander, printed on-line, paper n. sediment.32.
- C.27 **D'Alessandro, F.**, Tomasicchio, G.R., Frega, F., Carbone, M. (2011). Design and management aspects of a coastal protection system. A case history in the South of Italy. Proceedings 32° *Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 551-560.
- C.26 Tomasicchio, G.R., **D'Alessandro, F.**, Tundo, G. (2011). On wave transmission coefficient at low-crested structures. Proceedings 5th SCACR – *Int. Short Conference on Applied Coastal Research*, Aachen, 332-339.
- C.25 Armenio, E., **D'Alessandro, F.**, Tomasicchio, G.R., Aristodemo, F. (2011). Estimation and verification of long-shore sediment transport (LST) at Lecce coastline. Proceedings 5th SCACR – *Int. Short Conference on Applied Coastal Research*, Aachen, 430-436.
- C.24 **D'Alessandro, F.**, Tomasicchio, G.R. (2011). Dune erosion regimes observed in large scale experiments. Proceedings 5th SCACR – *Int. Short Conference on Applied Coastal Research*, Aachen, 552-559.
- C.23 Tomasicchio, G.R., **D'Alessandro, F.**, Tundo, G. (2011). Further developments in a new formulation of wave transmission. Proceedings *International Conference Coastal Structures '11*, Tokio, 634-645.
- C.22 Tomasicchio, G.R., **D'Alessandro, F.**, Fortes, C.J.E.M., Ilic, S., James, M.R., Sanchez-Arcilla, A., Sancho, F., Schüttrumpf, H. (2011). Dune erosion and overwash in large-scale flume experiments. Proceedings *International Conference Coastal Sediments '11*, Miami, 796-809.
- C.21 Fortes, C.J.E.M., **D'Alessandro, F.**, Endres, L., Pinheiro, L., Tomasicchio, G.R., Frega, F. (2010). Physical and numerical modelling of surf zone hydrodynamics on a mild-slope beach with dune. Proceedings *International Conference on the Application of Physical Modelling to Port and Coastal Protection - Coastlab 10*, Barcelona, printed on-line, paper n. 69.
- C.20 Tomasicchio, G.R., Alsina, J., Caceres, I., **D'Alessandro, F.**, Fortes, C.J.E.M., Ilic, S., James, M.R., Nagler, L., Pinheiro, L.V., Sanchez-Arcilla, A., Sancho, F., Shaw, B., Schüttrumpf, H. (2010). Dune erosion, overwash and breaching. Proceedings *International Conference on the Application of Physical Modelling to Port and Coastal Protection - Coastlab 10*, Barcelona, printed on-line, paper n. 63.
- C.19 **D'Alessandro, F.**, Musci, F., Tomasicchio, G.R. (2010). Large-scale flume experiments on dune erosion processes. Proceedings XXXII *Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Palermo, printed on CD-ROM, paper n. 479.
- C.18 **D'Alessandro, F.**, Fortes, C.J.E.M., Ilic, S., James, M., Sancho, F., Schüttrumpf, H., Tomasicchio, G.R. (2010). Wave storm induced dune erosion and overwash in large-scale flume experiments. Proceedings *Hydralab III Joint Transnational Access User Meeting*, Hannover, 61-64.
- C.17 **D'Alessandro, F.**, Frega, F., Tomasicchio, G.R. (2009). Dune erosion and overwash during a storm. Proceedings 4th SCACR – *International Short Conference on Applied Coastal Research*, Barcelona, 93-102.
- C.16 Gencarelli, R., **D'Alessandro, F.**, Tomasicchio, G.R. (2008). Impact of Hurricane Isabel, nearshore profile responses and damages along the North-Carolina coastline. Proceedings 9th *International Conference Littoral 2008*, Venezia, printed on CD-ROM, paper n. 226.
- C.15 **D'Alessandro, F.**, Tomasicchio, G.R., Gencarelli, R., Frega, F. (2008). Design and verification of a contaminated material capping structure along the Adriatic Coast, in the south of Italy. Proceedings *International Conference on the Application of Physical Modelling to Port and Coastal Protection - Coastlab 08*, Bari, 339-342.
- C.14 Gencarelli, R., Tomasicchio, G.R., **D'Alessandro, F.**, Frega, F. (2008). Dune erosion prediction during storm surges. Proceedings *International Conference on the Application of Physical Modelling to Port and Coastal Protection - Coastlab 08*, Bari, 113-116.

- C.13 **D'Alessandro, F.**, Tomasicchio G.R. (2008). Numerical modelling of breaker index at gentle slope beaches. Proceedings 3rd SCACR – *International Short Conference on Applied Coastal Research*, Lecce, 219-228.
- C.12 Frega, F., Tomasicchio, G.R., **D'Alessandro, F.** (2008). A multi layer coastal structure to cap contaminated material. Proceedings 29° *Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 281-294.
- C.11 Gencarelli R., Frega, F., **D'Alessandro, F.** (2008). Impacts of hurricane Isabel along the North Carolina coastline. Proceedings 28° *Corso di aggiornamento in Tecniche per la difesa dall'inquinamento*, Guardia Piemontese, 419-425.
- C.10 Tomasicchio, G.R., Maiolo, M., **D'Alessandro, F.** (2008). A coastal defence structure to cap health dangerous materials. Proceedings *International Conference PIANC-COPEDEC VII*, Dubai, printed on CD-ROM, paper n. 270.
- C.9 Tomasicchio, G.R., Archetti, R., **D'Alessandro, F.**, Sloth, P. (2007). Long-shore transport at berm breakwaters and gravel beaches. Proceedings *International Conference Coastal Structures '07*, Venice, 65-76.
- C.8 **D'Alessandro, F.**, Frega, F. (2007). A verification of static equilibrium parabolic formulation at the protected shoreline of Pizzo Calabro (Italy). Proceedings *International Conference Coastal Structures '07*, Venice, 1217-1228.
- C.7 **D'Alessandro, F.**, Tomasicchio, G.R. (2006). BCI: a new wave breaking criterion for the initiation of the breaking process in Boussinesq-type wave models. Proceedings 2nd SCACR – *Int. Short Conference on Applied Coastal Research*, Arcavacata di Rende, 239-250.
- C.6 **D'Alessandro, F.**, Tomasicchio, G.R., Veltri, P. (2006). Inizio del processo di frangimento in modelli tipo-Boussinesq. Proceedings XXX *Convegno di Idraulica e Costruzioni Idrauliche*, Roma, 117-126.
- C.5 Tomasicchio, G.R., **D'Alessandro, F.**, Veltri, P. (2006). Initiation of breaking process in Boussinesq-type wave models. Proceedings 30th *International Conference on Coastal Engineering*, San Diego, 36-48.
- C.4 Tomasicchio, G.R., **D'Alessandro, F.**, Aristodemo, F. (2005). Modelling of undertow profiles at beaches. Proceedings *Ocean Waves Measurement and Analysis, Fifth International Symposium WAVES 2005*, Madrid, IAHR Publication, paper 174, printed on CD-ROM.
- C.3 Veltri, P., Damiani, L., Tomasicchio, G.R., **D'Alessandro, F.**, Fiorini Morosini, A. (2004). Sulle modifiche della linea di falda in spiagge protette con tubi drenanti. Proceedings XXIX *Convegno di Idraulica e Costruzioni Idrauliche*, Trento, 831-838.
- C.2 Tomasicchio, G.R., Veltri, P., **D'Alessandro, F.** (2004). Studio numerico e sperimentale di onde propagantisi su spiagge. Proceedings XXIX *Convegno di Idraulica e Costruzioni Idrauliche*, Trento, 637-644.
- C.1 **D'Alessandro, F.**, Fortes, C.J.E.M., Sancho, F. (2004). Validacao do Modelo FUNWAVE. Proceedings *International Conference on Metodos Computacionais em Engenharia Civil*, Lisbon, (in Portuguese), printed on CD-ROM, © 2004 APMTAC, SEMNI.

Abstracts

- A.3 **D'Alessandro, F.**, Tomasicchio, G.R., Coppini, G., Federico, I. (2016). Climate change adaptation and coastal management. Proceedings IV Annual Conference of the Italian Society for Climate Sciences, Cagliari, Book of Abstracts.
- A.2 Barbaro, G., Tomasicchio, G.R., **D'Alessandro, F.**, Dattilo, F., Foti, G. (2016). Trasposizione geografica del moto ondoso. Proceedings XXXV *Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Bologna, Book of Abstracts.
- A.1 Damiani, L., Musci, E., Tomasicchio, G.R., De Giosa, T.M., **D'Alessandro, F.** (2014). Sul comportamento dinamico di turbine eoliche galleggianti installate in mare aperto. Proceedings XXXIV *Convegno Nazionale di Idraulica e Costruzioni Idrauliche*, Bari, Book of Abstracts.

Posters

- P.2 Barbaro, G., Tomasicchio, G.R., Malara, G., **D'Alessandro, F.** (2012). Application of a semiempirical longshore transport formulation. Proceedings 33th *International Conference on Coastal Engineering*, Santander, poster presentation.
- P.1 Smith, E.R., **D'Alessandro, F.**, Tomasicchio, G.R., and Gailani, J.Z. (2012). Modelling of nearshore placed sand mound. Proceedings 33rd *International Conference on Coastal Engineering*, Santander, poster presentation.

- T.1 **D'Alessandro, F.** (2006). Inizio del processo di frangimento in modelli tipo-Boussinesq. Dissertazione per il conseguimento del titolo di Dottore di Ricerca. Università della Calabria.

Not-refereed publications

- R.7 **D'Alessandro, F.** (2017). Cosenza e le sue acque. Pubblisfera Edizioni, Cosenza.
- R.6 Tomasicchio, G.R., **D'Alessandro, F.**, Musci, E., De Risi, A. (2014). Le condotte di scarico a mare – stato dell'arte. Quaderni C.I.T. – N.5
- R.5 Tomasicchio, G.R., **D'Alessandro, F.**, Fonseca, N., Katsaounis, G.M., Kirkegaard, J., Mavrakos, S.A, Penchev, V., Schüttrumpf, H. (2012). Dynamic response of floating off-shore wind turbines under wind and wave action. Research Report HyIV-DHI-01. Off-shore Wave Basin Danish Hydraulic Institute (DHI). EC contract no. 261520.
- R.4 Tomasicchio, G.R., Alsina, J., Caceres, I., **D'Alessandro, F.**, Fortes, C.J.E.M., Ilic, S., James, M.R., Nagler, L., Pinheiro, L.V., Sancho, F., Shaw, B., Schüttrumpf, H., Sospedra, J. (2009). Dune Overwash and Breaching. Research Report Hydralab III-Wavelab-9. Canal d'Investigació i Experimentació Marítima (CIEM), Laboratorio de Ingeniería Marítima (LIM), Universitat Politècnica de Catalunya (UPC). EC contract no. 022441 (RII3).
- R.3 Tomasicchio, G.R., Rossi, L., **D'Alessandro, F.** (2009). Prove su modello fisico e matematico per lo studio della circolazione idrodinamica e della navigabilità a seguito della realizzazione di un sistema di dighe a scogliera distanziate, parzialmente sommerse, a Bagheria (PA), in località Aspra. Rapporto di Ricerca. Dipartimento di Difesa del Suolo, Università della Calabria.
- R.2 **D'Alessandro, F.** (2008). Taratura e verifica di un modello numerico per l'evoluzione morfodinamica di spiagge. Dissertazione conclusiva del Post-dottorato di ricerca promosso dalla Fondazione Carical.
- R.1 Veltri, P., Fiorini Morosini, A., Aristodemo, F., **D'Alessandro, F.**, Maradei, G., Verbeni, B. (2005). Problematiche della dinamica evolutiva della linea di costa. Proceedings *Scuola Estiva su Modelli di sviluppo delle aree costiere e rurali ad elevata strutturazione storica*, Università della Calabria, Centro Editoriale e Librario, 313-338.

Roma, 05/07/17

