

Prof. Fabio Dentale



Since 2005 is Assistant Professor of Hydraulics at the University of Salerno. Since 2000 the scientific activity has been oriented to the numerical modeling for environmental and marine applications: wave motion, sediment transport, maritime structures by a numerical approach. Initially, as part of doctoral research, these activities were carried out using a numerical model for solving NLSW (Non Linear shallow water) along a beach profile. Now, at MEDUS (Maritime Engineering Division University of Salerno), he is developing an innovative procedure that, by using cad and numerical software, describes the hydrodynamics of the wave motion (overtopping, breaking, run-up, reflection, transmission) over a maritime structure as well as the hydraulic stability of armor blocks. The structure is modelled, very much like in the real world or in the physical laboratory testing, by overlapping individual elements and then the computational grid is fitted so as to provide enough computational nodes within the flow paths rather than making use the “porous media” approach.