

## Maurizio Giugni

Specialization	Hydraulic Engineering
Research Interests	<p>Design and management of integrated water systems Energy saving policy in water distribution networks Strategies to promote small scale hydro electricity production (small and mini-hydro) Hydraulic transients in water systems Seismic actions on dams and water tanks Dynamic response of water networks in seismic areas Sea outfalls hydraulic design Mitigation of surface waters vulnerability Minimum Instream flow Flood risk mitigation and floodplain storage modeling Stability of river levees against piping and heaving</p>
Short curriculum vitae	<p>Graduated in Civil Engineering with full marks Full Professor of Hydraulic Construction (University of Naples Federico II) Head of Department of Hydraulic and Environmental Engineering of the University of Naples Federico II (2002-2008) Head of Center of Environmental Research (CIRAM) of the University of Naples Federico II (2002-2008) Member of the Academic Board of the PhD in "Analysis of Environmental Systems" Member of the Council of the Pole of Sciences and the Technologies of University of Naples Federico II (2005-2011) Author of more than 120 scientific papers on national and international journals and proceedings of congresses Scientific coordinator of research agreements (with public and private companies (Sogesid SpA, ARIN SpA, Reclamation Consortium of Sannio Alifano) General Councilman and Member of the Committee of Presidency of the Hydrotechnic Italian Association</p>
Publications	<p>M. Giugni, D. Romanelli, N. Fontana, D. Portolano: <i>Strategic planning optimisation of "Napoli Est" water distribution system</i>, 32<sup>nd</sup> Congress of IAHR, 2007, ISBN 88-89405-06-6 G. De Martino, N. Fontana, M. Giugni: <i>Transient Flow Caused by Air Expulsion through an Orifice</i>, Journal of Hydraulic Engineering, ASCE, September 2008, ISSN 0733-9429/2008/9-1395-1399 V. Corrado, B. D'Acunto, N. Fontana, M. Giugni: <i>Dynamic response of water networks in seismic areas</i>, 17th Congress of IABSE, 2008 M. Giugni, N. Fontana, G. Lombardi: <i>Surface waters vulnerability and Minimum Instream Flow: an italian case study</i>, Proceedings of XIIIth World Water Congress, IWRA, France, 2008 V. Corrado, B. D'Acunto, N. Fontana, M. Giugni: <i>Estimation of dynamic strains in finite end-constrained pipes in seismic areas</i>, Mathematical and Computer Modelling 49 (2009), ISSN 0895-7177, Elsevier M. Giugni, N. Fontana, D. Portolano: <i>Energy saving policy in water distribution networks</i>, ICREPQ 2009</p>