

Boris Teillant

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Research Topic

Project title: Innovative concepts for wave energy devices

Related Work Packages: WP5 – Offshore farms design, deployment and O&M

Short Biography

Master degree in Materials Science and Nanotechnologies at the National Institute of Applied Science (INSA) of Rennes, France. Research experience in the techno-economic optimisation of wave energy converters at the Centre for Ocean Energy Research (COER) of NUI Maynooth, Ireland.

Publications

[1] B. Teillant, R. Costello, J. Weber and J. Ringwood, "Productivity and economic assessment of wave energy projects through operational simulations," in *Renewable Energy*, vol. 48, pp. 220-230, 2012 <http://dx.doi.org/10.1016/j.renene.2012.05.001>

[2] R. Costello, B. Teillant, J. Weber and J. Ringwood, "Techno-economic optimisation for wave energy converters" in *Fourth International Conference on Ocean Energy*, Dublin, Ireland, 2012.

[3] J. Weber, B. Teillant, R. Costello, J. Ringwood, and T. Soullard, "Integrated WEC system optimization – Achieving balanced technology development and economical lifecycle performance," in *Ninth European Wave and Tidal Energy Conference*, Southampton, United Kingdom, 2011.

[4] B. Teillant, J.C. Gilloteaux, and J. Ringwood, "Optimal damping profile for a heaving buoy wave energy converter," in *Eight IFAC Conference on Control Applications in Marine Systems*, no. 1, Rostock, Germany, 2010, pp. 393-398.

Current Research

Development of algorithms for the techno-economic and lifecycle logistics analysis of arrays of wave and tidal energy converters.

Supervisor(s)

Professor António Sarmento