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Title: Multi-objective optimal design of submerged arches using extreme learning machine and evolutionary algorithms

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PII: S1568-4946(18)30395-8
DOI: <https://doi.org/doi:10.1016/j.asoc.2018.07.009>
Reference: ASOC 4977

To appear in: *Applied Soft Computing*

Received date: 21-9-2017
Revised date: 19-6-2018
Accepted date: 5-7-2018

Please cite this article as: Alejandro M. Hernández-Díaz, Andrés Bueno-Crespo, Jorge Pérez-Aracil, José M. Cecilia, Multi-objective optimal design of submerged arches using extreme learning machine and evolutionary algorithms, *Applied Soft Computing Journal* (2018), <https://doi.org/10.1016/j.asoc.2018.07.009>

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- A multi-objective optimization to reduce arch bending moment.
- An ELM and GA are used to predict the level of bending stresses.
- The infrastructure is tested to offer a geo-located pollution information service.
- Two test examples, corresponding to deep and shallow waters, are developed.
- We compare our results with the theoretical curves by the funicular analysis.

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