

# **Performance Degradation Identification for Compressed Air Systems Using a Hybrid Machine Learning and Knowledge Based Fault Detection and Diagnostic System**

**Seán Martin Hayes · Ken Bruton · D.T.J. O’Sullivan**

Received: date / Accepted: date

---

This work was funded by Marine Renewable Energy Ireland (MaREI) at University College Cork

---

Seán Martin Hayes · Ken Bruton · D.T.J. O’Sullivan  
School of Engineering  
University College Cork  
Ireland  
Tel.: +353-21-4902913  
Fax: +353-21-4276648  
E-mail: sean.m.hayes@umail.ucc.ie