

國立澎湖科技大學電機工程系暨五專部

111學年度專題成果發表

智能風電機組維護管理信息系統

作者:吳侑庭、作者:徐明宏教授

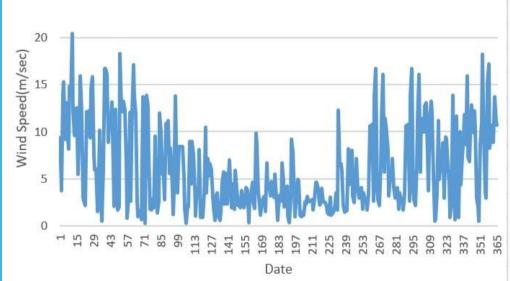
壹. 簡介

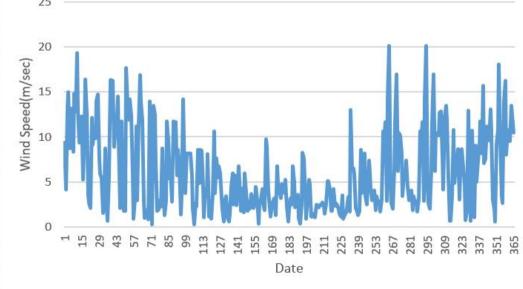
貳.實驗方法

- (1). 風速-時間折線圖
- (2). 轉向-時間折線圖
- (3). 氣溫-時間折線圖
- (4). 濕度-時間折線圖
- (5). 氣壓-時間折線圖
- (6). 電壓-時間折線圖
- (7). 電流-時間折線圖
- (8). 功率-時間折線圖

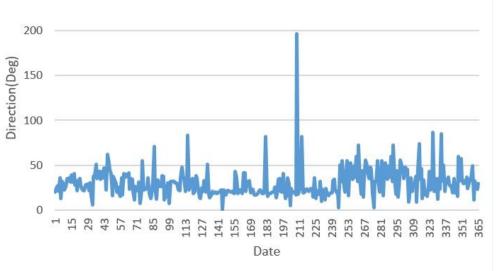
叁. 結果與討論

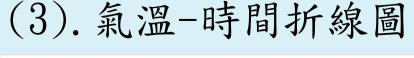
(1). 風速-時間折線圖





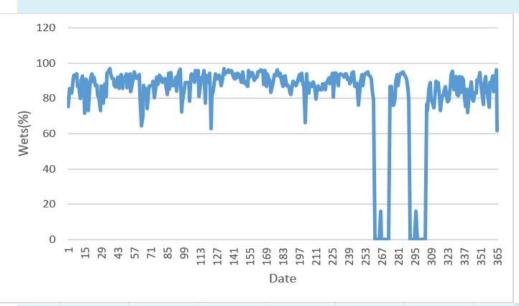
(2). 轉向-時間折線圖



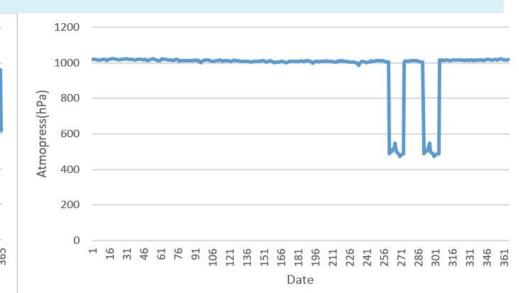




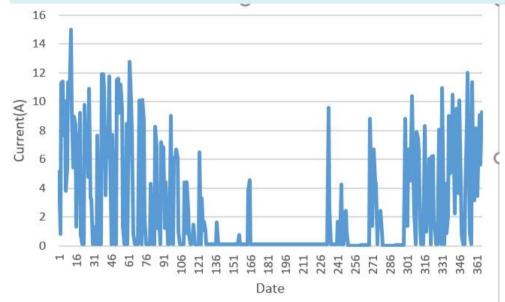
(4). 濕度-時間折線圖



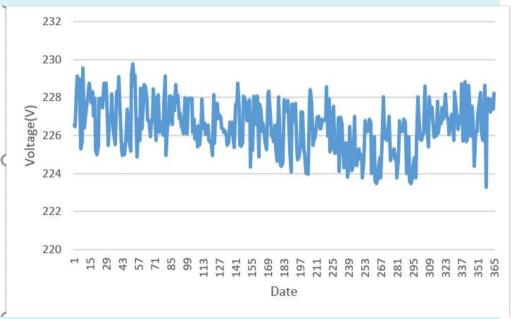
(5). 氣壓-時間折線圖



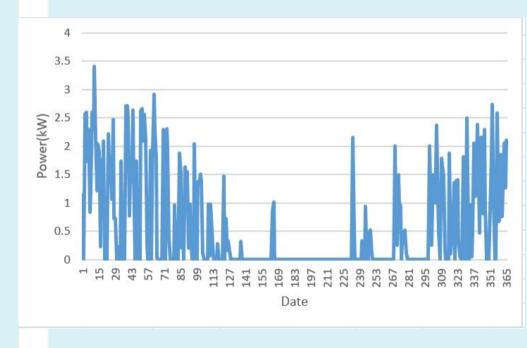
(6). 電壓-時間折線圖



(7). 電流-時間折線圖



(8). 功率-時間折線圖



參考文獻

Hsu, M. H., & Zhuang, Z. Y. (2022). An intelligent detection logic for fan-blade damage to wind turbines based on mounted-accelerometer data. Buildings, 12(10), 1588.

P. J. B. Tan and M. -H. Hsu, "Diagnosis of faults in wind power generation systems," 2016 IEEE 11th Conference on Industrial Electronics and Applications (ICIEA), Hefei, China, 2016, pp. 1459-1462, doi: 10.1109/ICIEA.2016.7603815.

M. -H. Hsu, P. J. B. Tan and C. -C. Chao, "Condition monitoring and fault detection of wind turbines generator," 2018 IEEE International Conference on Applied System Invention (ICASI), Chiba, Japan, 2018, pp. 1218-1221, doi: 10.1109/ICASI.2018.8394508.