

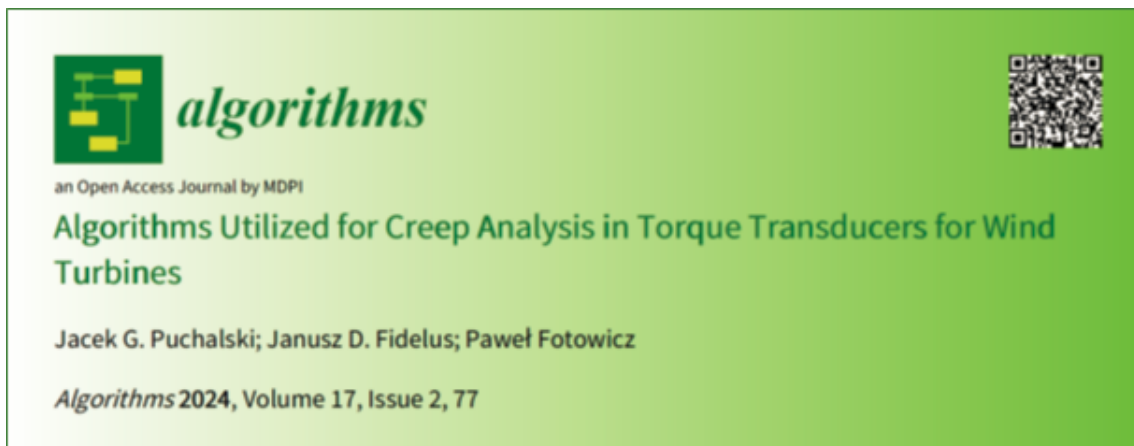
Central Office of Measures

[https://www.gum.gov.pl/en/about/news/343,Article-by-employees-of-the-Central-Office-of-Measures-in-an-international-scientific-journal.html](https://www.gum.gov.pl/en/about/news/343,Article-by-employees-of-the-Central-Office-of-Measures-in-an-international-scientific-journal)
27.04.2024, 23:00

Article by employees of the Central Office of Measures in an international scientific journal

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Published by: Adam Żeberkiewicz

In February of this year, a scientific article by employees of the National Institute of Metrology (GUM) was published in the international journal "Algorithms" (Impact Factor = 2.32).



The algorithms used for analysing the phenomenon of creep in torque transducers for wind turbine applications are discussed in this article. This is a significant issue, especially in the context of electricity production from renewable sources.

One of the key issues in analysing the efficiency of wind turbines is the creeping of torque converters, both under load and unloaded. This phenomenon has a significant impact on the proper operation of torque transducers, therefore it requires the application of appropriate algorithms for analysing measurement data. The least squares method is suitable for such analysis. Linear regression can be used to study the creeping trend itself, while a non-linear third-degree polynomial curve allows for a more precise visualization of creeping and provides additional information. Additionally, calculating the differences between measurement data and regression curves is beneficial for a precise evaluation of the data.

The content of the article is available on the [journal's website](#).

[PDF version](#)

The article was produced as a result of the implementation of the European project [19ENG08 WindEFCY](#), aimed at supporting Europe's transition to renewable energy sources in the form of wind turbines.

The project [19ENG08 WindEFCY](#) is funded under the European Metrology Programme for Innovation and Research (EMPIR).



The EMPIR initiative is co-funded by the European Union's Horizon 2020 research and innovation programme and the EMPIR Participating States