## **RETRACTION NOTE**



## Retraction Note: Enhanced bat algorithm for COVID-19 short-term forecasting using optimized LSTM

Hafiz Tayyab Rauf<sup>1</sup> • Jiechao Gao<sup>2</sup> • Ahmad Almadhor<sup>3</sup> • Muhammad Arif<sup>4</sup> • Md Tabrez Nafis<sup>5</sup>

Published online: 22 May 2023

© The Author(s), under exclusive licence to Springer-Verlag GmbH Germany, part of Springer Nature 2023

## Retraction Note to: Soft Computing (2021) 25:12989–12999

https://doi.org/10.1007/s00500-021-06075-8

The Editor-in-Chief and the publisher have retracted this article. The article was submitted to be part of a guest-edited issue. An investigation by the publisher found a number of articles, including this one, with a number of concerns, including but not limited to compromised editorial handling and peer review process, inappropriate or

irrelevant references or not being in scope of the journal or guest-edited issue. Based on the investigation's findings the Editor-in-Chief therefore no longer has confidence in the results and conclusions of this article.

The authors disagree with this retraction.

**Publisher's Note** Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

The original article can be found online at https://doi.org/10.1007/s00500-021-06075-8.

☑ Jiechao Gao jg5ycn@virginia.edu

Hafiz Tayyab Rauf hafiztayyabrauf093@gmail.com

Ahmad Almadhor aaalmadhor@ju.edu.sa

Muhammad Arif arifmuhammad36@hotmail.com

Md Tabrez Nafis tabrez.nafis@gmail.com

- Department of Computer Science, Faculty of Engineering and Informatics, University of BRADFORD, Bradford, UK
- Department of Computer Science, University of Virginia, Charlottesville, VA, USA
- Department of Computer Engineering and Networks, Jouf University, Sakakah, Saudi Arabia
- School of Computer Science, Guangzhou University, Guangzhou 510006, China
- Department of Computer Science and Engineering, Jamia Hamdard, New Delhi, India

