



RETRACTED ARTICLE: Advanced lightweight feature interaction in deep neural networks for improving the prediction in click through rate

Kalaivaani P C D¹ · Sathishkumar V E²  · Wesam Atef Hatamleh³ · Kamel Dine Haouam³ · B. Venkatesh⁴ · Dirar Sweidan⁵

Accepted: 25 October 2021 / Published online: 18 November 2021

© The Author(s), under exclusive licence to Springer Science+Business Media, LLC, part of Springer Nature 2021

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.

Author Dirar Sweidan agrees with this retraction. Author Kalaivaani P C D disagrees with this retraction. The other authors have not responded to correspondence regarding this retraction. The online version of this article contains the full text of the retracted article as Supplementary Information.

Supplementary Information The online version contains supplementary material available at <https://doi.org/10.1007/s10479-021-04384-7>.

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

Springer Nature or its licensor (e.g. a society or other partner) holds exclusive rights to this article under a publishing agreement with the author(s) or other rightsholder(s); author self-archiving of the accepted manuscript version of this article is solely governed by the terms of such publishing agreement and applicable law.

✉ Sathishkumar V E
srisathishkumarve@gmail.com

¹ Department of Computer Science and Engineering, Kongu Engineering College, Perundurai, Erode, Tamilnadu 638060, India

² Department of Information and Communication Engineering, Suncheon National University, Suncheon, Republic of Korea

³ Department of Computer Science, College of Computer and Information Sciences, King Saud University, P.O. Box 51178, Riyadh 11543, Saudi Arabia

⁴ Department of Computer Science and Engineering, Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur 522213, India

⁵ School of Informatics, University of Skövde, Högskölevägen 1, 541 28 Skövde, Sweden