



LEEDS  
BECKETT  
UNIVERSITY

---

Citation:

Selvarajan, S and Manoharan, H and Khadidos, AO and Shankar, A and Khadidos, AO and Onyema, EM (2023) Obstacles Uncovering System for Slender Pathways Using Unmanned Aerial Vehicles with Automatic Image Localization Technique [RETRACTED ARTICLE]. International Journal of Computational Intelligence Systems, 16. pp. 1-14. ISSN 1875-6883 DOI: <https://doi.org/10.1007/s44196-023-00344-0>

Link to Leeds Beckett Repository record:

<https://eprints.leedsbeckett.ac.uk/id/eprint/10138/>

Document Version:

Article (Published Version)

---

Creative Commons: Attribution 4.0

© The Author(s) 2023

The aim of the Leeds Beckett Repository is to provide open access to our research, as required by funder policies and permitted by publishers and copyright law.

The Leeds Beckett repository holds a wide range of publications, each of which has been checked for copyright and the relevant embargo period has been applied by the Research Services team.

We operate on a standard take-down policy. If you are the author or publisher of an output and you would like it removed from the repository, please [contact us](#) and we will investigate on a case-by-case basis.

Each thesis in the repository has been cleared where necessary by the author for third party copyright. If you would like a thesis to be removed from the repository or believe there is an issue with copyright, please contact us on [openaccess@leedsbeckett.ac.uk](mailto:openaccess@leedsbeckett.ac.uk) and we will investigate on a case-by-case basis.



# Retraction Note: Obstacles Uncovering System for Slender Pathways Using Unmanned Aerial Vehicles with Automatic Image Localization Technique

Shitharth Selvarajan<sup>1,7</sup> · Hariprasath Manoharan<sup>2</sup> · Alaa O. Khadidos<sup>3,8</sup> · Achyut Shankar<sup>4,9</sup> · Adil O. Khadidos<sup>5</sup> · Edeh Michael Onyema<sup>6</sup>

© The Author(s) 2024

**Retraction Note: International Journal of Computational Intelligence Systems (2023) 16:164**  
<https://doi.org/10.1007/s44196-023-00344-0>

The Publisher has retracted this article in agreement with the Editor-in-Chief. 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 publisher, in consultation with the Editor-in-Chief therefore

no longer has confidence in the results and conclusions of this article.

Authors, Shitharth S, Hariprasath Manoharan, and Achyut Shankar disagree with this retraction. Authors, Adil Khadidos, Alaa Khadidos, and Edeh Onyema have not responded to correspondence regarding this retraction.

**Open Access** This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in

The original article can be found online at <https://doi.org/10.1007/s44196-023-00344-0>.

✉ Shitharth Selvarajan  
shitharths@kdu.edu.et  
Hariprasath Manoharan  
hari13prasath@gmail.com  
Alaa O. Khadidos  
aokhadidos@kau.edu.sa  
Achyut Shankar  
ashankar2711@gmail.com  
Adil O. Khadidos  
akhadidos@kau.edu.sa  
Edeh Michael Onyema  
michael.edeh@ccu.edu.ng

<sup>1</sup> Department of Computer Science, Kebri Dehar University, Kebri Dehar, Ethiopia  
<sup>2</sup> Department of Electronics and Communication Engineering, Panimalar Engineering College, Poonamallee, Chennai, Tamil Nadu 600 123, India

<sup>3</sup> Department of Information Systems, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia  
<sup>4</sup> Secure Cyber Systems Research Group (SCSRG), WMG, University of Warwick, Coventry, UK  
<sup>5</sup> Department of Information Technology, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia  
<sup>6</sup> Mathematics and Computer Science, Coal City University, Enugu, Nigeria  
<sup>7</sup> School of Built Environment, Engineering and Computing, Leeds Beckett University, LS1 3HE Leeds, UK  
<sup>8</sup> Center of Research Excellence in Artificial Intelligence and Data Science, King Abdulaziz University, Jeddah, Saudi Arabia  
<sup>9</sup> School of Computer Science Engineering, Lovely Professional University, Phagwara 144411, Punjab, India

the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

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