

# The Fritz Ackermann Award – Best Paper 2022

July 2023

The publisher of the *ISPRS Open Journal of Photogrammetry and Remote Sensing*, Elsevier B.V., and Trimble, Inc., have recently agreed to establish the ISPRS Fritz Ackermann Award to encourage and stimulate submission of high-quality scientific papers by individual authors or groups to the *ISPRS Open Journal of Photogrammetry and Remote Sensing*, to promote and advertise the Journal, and to honour the outstanding contributions of Prof. Dr.-Ing. Friedrich (Fritz) Ackermann to research and development in photogrammetry and remote sensing.

The Award is presented to authors of the best paper published exclusively in the ISPRS Open Journal during the four-year period from January of a Congress year, to December of the year prior to the next Congress. As an exception, the period for the first Award will cover the five-year period starting in 2021. The Award consists of a certificate and a grant of €10,000. A five-member Jury, comprising experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, evaluates the papers. For each year of the evaluation period, the best paper is selected, and from these papers, the one to receive the ISPRS Fritz Ackermann Award will be selected. The first ISPRS Fritz Ackermann will be presented at the 25th ISPRS Congress in Toronto in 2026.

The Jury, appointed by the ISPRS Council, evaluated the papers published in 2022 and announces its decision for the Best Paper. The winner of the 2022 Best Paper Award is:

**"Automatic orientation of historical terrestrial images in mountainous terrain using the visible horizon"**

**by Sebastian Mikolka-Flöry<sup>1</sup>, Camillo Ressi<sup>1</sup>, Lorenz Schimpl<sup>1</sup>, and Norbert Pfeifer<sup>1</sup>**

published in volume 2, December 2022,  
<https://doi.org/10.1016/j.ophoto.2022.100026>



Sebastian  
Mikolka-Flöry



Camillo Ressi



Lorenz Schimpl



Norbert Pfeifer

---

<sup>1</sup> TU Wien, Department of Geodesy and Geoinformation, Research Unit Photogrammetry E120.7, Wiedner Hauptstraße 8/E120, Vienna, 1040, Austria

## **Jury's rationale for the paper selection**

The authors present a novel, efficient, and interesting approach for using the horizon to estimate the interior and exterior orientation parameters of historical images. The validity of the approach was evaluated for various historical images. Taking advantage of historical images for quantitative evaluation of changes is quite important for a wide range of application domains. The jury appreciated the practical relevance and the potential high interest it can draw from the wider public.

On behalf of the ISPRS and the ISPRS Fritz Ackermann Jury, I would like to congratulate the authors for this distinction and thank them for their contribution. I would also like to thank the sponsors of the Award, and the Jury members for their thorough evaluations.

George Vosselman

Editor-in-Chief *ISPRS Open Journal of Photogrammetry and Remote Sensing*

University of Twente, Faculty ITC, the Netherlands

Email address: [george.vosselman@utwente.nl](mailto:george.vosselman@utwente.nl)