DATASET LICENCE AGREEMENT

The Aristotle University of Thessaloniki (hereinafter, **AUTH**) created the following **dataset, entitled 'Blaze'**, within the context of the project TEMA that was funded by the European Commission-European Union [Grant Agreement number: 101093003; start date: 01/12/2022; end date: 30/11/2026].

General description of the dataset: The dataset will be used for wildfire image classification and burnt area segmentation tasks for Unmanned Aerial Vehicles. It is comprised of 5,408 frames of aerial views taken from 56 videos and 2 public datasets. From the D-Fire public dataset, 829 photographs were used; and from the Burned Area UAV public dataset 34 images were used. For the classification task, there are 5 classes ('Burnt', 'Half-Burnt', 'Non-Burnt', 'Fire', 'Smoke'). As for the segmentation task, 404 segmentation masks on a subset have been created, which assign to each pixel of the image the class 'burnt' or the class 'non-burnt'.

CSV files are provided containing the frames taken from every video, the class that has been assigned to them, the path to the respective segmentation mask along with the mask for the segmentation subset and the related links to the public videos and the 2 public datasets.

More details on the dataset are available in the following papers:

de Venâncio, P.V.A.B., Lisboa, A.C. & Barbosa, A.V. An automatic fire detection system based on deep convolutional neural networks for low-power, resource-constrained devices. Neural Comput & Applic 34, 15349–15368 (2022). https://doi.org/10.1007/s00521-022-07467-z

Tiago F.R. Ribeiro, Fernando Silva, José Moreira, Rogério Luís de C. Costa, Burned area semantic segmentation: A novel dataset and evaluation using convolutional networks, ISPRS Journal of Photogrammetry and Remote Sensing, Volume 202,2023, Pages 565-580, ISSN 0924-2716 (https://www.sciencedirect.com/science/article/pii/S0924271623001831)

To advance research in the relevant field, AUTH made the dataset publicly available for research purposes via the AIIA lab. All requests for access to/use of the dataset must be submitted in writing by researchers. To receive a copy of the dataset, the researcher (hereinafter, the **Signatory**) must agree to the conditions below and sign this document. The dataset can be downloaded upon receipt of the signed document.

Whereas the Signatory desires to access/use the dataset for own research purposes, at her/his sole risk and at no expense of AUTH, she/he agrees on the following:

1. The dataset will not be distributed, published, copied, disseminated, made available or otherwise communicated by the Signatory in any way or form whatsoever, whether for profit or not. This includes distributing, copying, disseminating, making available or otherwise communicating to any

party in its original or any modified version and by any means. The Signatory must not grant anyone access to the dataset by giving out his/her username and password.

2. The Signatory may only use the dataset after this Licence Agreement has been signed and returned to AUTH.

3. The names of natural persons referred to in the dataset must not be released. The Signatory agrees not to disclose the names or other personal data related to the natural persons referred to in the dataset and not to connect the data with the names or other personal data, if he/she receives this information through another source.

4. The dataset is solely released for research purposes. The Signatory must not use the original data or modified copies for commercial purposes or goals other than research or provide this dataset to for-profit companies or any other entity (including non-profit entities).

5. The whole procedure to download this dataset from the corresponding server is free of charge. For any other method of shipping and handling of this dataset, the Signatory will be charged and the relevant procedure should be arranged via e-mail.

6. AUTH makes no claim that the dataset encompasses all data collected prior to/during/after or associated with the TEMA project. AUTH reserves the right to change the type, format, structure or other elements of the dataset.

7. This dataset was formatted with a reasonable standard of care, but AUTH makes no warranties express or implied, including no warranty of merchantability or fitness for a particular purpose, regarding accuracy or completeness of the data or that data are free of errors.

8. The Signatory agrees to provide specific information to AUTH regarding how this dataset will be used, the users and usage of any application containing this dataset, any difficulties encountered in using this dataset and changes or enhancements to this dataset that would make it more useful to the Signatory. In case of changes or enhancements, the Signatory agrees to send the new version to AUTH and allow AUTH to make this new version available to researchers. In such a case, credit for the changes or enhancements will be acknowledged to the Signatory in the relevant web page referring/linking to this dataset.

9. All documents and publications that report research on or (directly/indirectly) linked to this dataset must mention the source of the data as 'TEMA dataset', include the website link to this source at the relevant AUTH server as well as **cite the following papers: 1) de Venâncio, P.V.A.B., Lisboa, A.C. & Barbosa, A.V. An automatic fire detection system based on deep convolutional neural networks for low-power, resource-constrained devices. Neural Comput & Applic 34, 15349–15368 (2022).** https://doi.org/10.1007/s00521-022-07467-z **and 2) Tiago F.R. Ribeiro, Fernando Silva, José Moreira, Rogério Luís de C. Costa, Burned area semantic segmentation: A novel dataset and evaluation using convolutional networks, ISPRS Journal of Photogrammetry and**

Remote Sensing, Volume 202,2023, Pages 565-580, ISSN 0924-2716, https://www.sciencedirect.com/science/article/pii/S0924271623001831). Publications include any type of communication to the public (e.g., open access-papers or conference-presentations) and any type of communication to large or small (e.g., restricted) audiences (e.g., in-class-presentations for educational purposes).

10. AUTH cannot be held responsible, accountable or liable (toward the Signatory or third parties) for any type of damage that may be caused intentionally or unintentionally by the Signatory or other party accessing/using the dataset on behalf of the Signatory. This includes any type of damage that may be caused to third parties. Moreover, the Signatory shall be responsible for any design, system, product, database or other asset generated by the Signatory via the use of the dataset. Furthermore, AUTH shall not be liable to the Signatory or third parties for any loss or damage whatsoever or howsoever arising directly or indirectly in connection with the use by the Signatory of this dataset. AUTH expressly excludes liability (toward the Signatory or third parties) for any offensive content that the Signatory may directly/indirectly link to the dataset.

11. AUTH reserves all Intellectual Property rights in any version of the dataset in any format and medium.

12. The duration of this dataset licence agreement is one year (starting from the day of receipt by AUTH of this document in signed form). Duration of this agreement can solely be extended in writing (in signed form).

Full Name of Signatory:

Title:

Institution:

Address:

Email:

Date:

Signature: