

## Introduction

Brazil is one of the countries most affected by covid-19, with over 22 million confirmed cases and more than 600 thousand deaths, to date. The Hospital da Cruz Vermelha from Curitiba, located in the state of Paraná, southern Brazil, received and documented some of those cases. The data collection consists of 281 X-ray images of people infected with COVID-19 and 232 of people who obtained negative results that are not infected. All images have 3 eight-bit color channels (RGB) and image resolution ranges from 2974 × 2612 to 4248 × 3480 pixels. The images are labeled in two classes, COVID-19 and non-COVID, and there are no annotations regarding the image angle view. The dataset is private, but it can be made available upon request for the academic community and is distributed to any research group approved by Professor David Menotti.

## Release of the dataset

To advance the state of the art in x-ray based covid-19 detection, the **HCV-UFPR-COVID-19 Xray** dataset will be made available to researchers on a case-by-case request basis. All requests must be submitted in writing by **the researcher's academic institution** on behalf of the individual researcher or research unit (henceforth, the "Researcher"). Requests must be directed to Professor David Menotti and his decision regarding authorization to access the dataset is **final**. To receive a copy of the imagery, the authorized Researcher must sign this document and agree to observe the restrictions listed below. In addition to other possible remedies, failure to observe these restrictions may result in the revocation of permission to use the data as well as denial of access to the dataset. There will be no charge for the data made available. For more information regarding the dataset and the original published paper, refer to the webpage: <https://github.com/menottid/HCV-UFPR-COVID-19-Xray>.

**Consent:** Researcher agrees to the following restrictions on the HCV-UFPR-COVID-19 Xray dataset:

1. **Redistribution:** the HCV-UFPR-COVID-19 Xray dataset, in whole or in part, will not be further distributed, published, copied, or disseminated in any way or form whatsoever, whether for profit or not. This includes further distributing, copying or disseminating to a different facility or organizational unit within the Researcher's university, organization, or company.
2. **Modification and commercial use:** the HCV-UFPR-COVID-19 Xray dataset, in whole or in part, may not be modified or used for commercial purposes. The license granted herein is specifically for the internal research purposes of Researcher, and Researcher shall not duplicate or use the disclosed HCV-UFPR-COVID-19 Xray dataset, its contents, or any seal, logo, mark, or phrase associated with or owned by the Federal University of Paraná to manufacture, promote, or sell products or technologies (or portions thereof) either directly or indirectly for commercialization or any other direct for-profit purpose.
3. **Requests for the dataset:** All requests for the HCV-UFPR-COVID-19 Xray dataset must be directed to Professor David Menotti, and upon receipt of a signed copy of this agreement, in case of the decision of granting access, he will deliver instructions for such access.
4. **Publication requirements:** Those seeking to include renderings of more than 20 images from the HCV-UFPR-COVID-19 Xray dataset in reports, papers, and other documents to be published or released must first obtain approval in writing from Professor David Menotti.
5. **Citation:** All documents and papers that report on research that use the HCV-UFPR-COVID-19 Xray dataset must acknowledge the use of the dataset by including an appropriate citation ([available here](#) and also along with the dataset).
6. **Publications:** A copy of all reports and papers that are for public or general release that use the HCV-UFPR-COVID-19 Xray dataset must be forwarded immediately upon release or publication to Professor David Menotti.
7. **Indemnification:** Researcher agrees to indemnify, defend, and hold harmless the Department of Informatics, the Federal University of Paraná and Professor David Menotti, individually and collectively, from any and all losses, expenses, damages, demands and/or claims based upon any injury or damage (real or alleged) related to, and shall pay all damages, claims, judgments or expenses resulting from, Researcher's use of the **HCV-UFPR-COVID-19 Xray** dataset.

Authorized Signatory for Licensee

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SIGNATORY NAME and TITLE (PLEASE PRINT)

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SIGNATURE and DATE

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LICENSING ORGANIZATION NAME, ADDRESS (CITY, COUNTRY), and CONTACT E-MAIL ADDRESS

Transmit signed and authorized license to David Menotti via email:

To [menotti@inf.ufpr.br](mailto:menotti@inf.ufpr.br) with the subject "[HCV-UFPR-COVID-19 Xray v1.0] Signed License Agreement"

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