

# Openbare

*Powered by JASON (Joint AI System for Occlusion Neutralisation)*

## ***Getting Started & Terms and Conditions***

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### ***Welcome***

This Application is designed to support healthcare professionals by providing a secure, efficient solution for visual identification of individuals wearing face masks. Through advanced AI-driven face inpainting, it allows

users to reconstruct masked facial regions without requiring the mask to be physically removed - improving safety, hygiene, and workflow.

The Application is intended to be used in clinical environments for identification purposes and can also support internal documentation and case referencing where appropriate.

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## *How to Use the Application*

Follow these steps to begin using the Application:

1. Choose a Segmentation Method

- Detectron2 (Local): Runs segmentation on your machine, suitable for secure offline environments.
- Roboflow (Cloud): Uses a cloud-based model for segmentation - requires internet access.

2. Select an Inpainting Model

*The Application offers multiple GAN-based inpainting models:*

- GAN (no mapping): Quickly reconstructs the occluded region without any structural guidance. Fastest option, suitable for broad estimation.

- GAN (mapping): Uses facial landmark mapping for guided inpainting, resulting in improved anatomical accuracy.
  - EchoShiftGAN: Performs landmark-guided inpainting and generates multiple output variations by modifying facial structure characteristics such as size and spacing. Useful for refining the result or selecting the most appropriate reconstruction.
3. Upload or Capture an Image
    - Select an image from your device or use the webcam feature to capture one in real time.
  4. Generate the Image
    - Once a model is selected, press the Generate button. The output will appear on the left-hand side.
  5. Save and Encrypt (Optional)

After generation, you will be prompted to save the result. You may rename the file or accept the default name. Saved images are securely encrypted and stored locally for authorised use only.

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## *Terms and Conditions*

By using this Application, you agree to the following terms:

- Clinical Use Only

This software is intended strictly for internal use within healthcare or clinical environments. It is not approved for commercial, recreational, or non-professional use.

- Identification Support Tool

The Application serves as a visual aid for identifying masked individuals in a safe and efficient manner. It is not a diagnostic or medical tool and should not be used to influence clinical decisions or treatment plans.

- Data Security

All user-generated outputs are encrypted and stored locally. No personal data is transmitted externally. It is the responsibility of the user and their institution to ensure outputs are managed in accordance with relevant data protection policies.

- Image Handling

Users must ensure that only authorised staff access and use the Application. All captured or uploaded images must be handled according to clinical protocol and institutional guidelines.

- Output Variability

GAN-generated images are approximations based on machine learning models. The outputs are not exact recreations and may vary across runs. It is the user's responsibility to interpret and use results appropriately.

By continuing, you confirm that you have read and understood the terms above and agree to use the Application within its intended scope.