

Nanyang Technological University Internet Images Dataset Version 1 Release Agreement

The goal of the Nanyang Technological University Internet Images Dataset Version 1 (NTUIIS v1) is to develop new technologies, techniques, methods, algorithms and systems for automatic criminal and victim identification based on skin biometrics in forensic settings. NTUIIS contains two parts: NTUIIS_1 and NTUIIS_2. Images in NTUIIS_1 were collected for visual effect evaluation. To generate original (uncompressed) images for comparisons, they were resized to remove the compression artifacts and referred to as references. Images were further downsampled to a low resolution so that blood vessels were clear in the original images and JPEG compression artifacts were observable in the compressed images with the compression factors of 50 and 75. There are 44 images and 40 images in NTUIIS_1 for testing JPEG compression factors of 50 and 75, respectively. Images in NTUIIS_2 were collected for objective evaluation based on blood vessel matching. For each image in NTUIIS_2, there is one corresponding image from the same body part of the same subject. The forearms were extracted and formed two datasets: a left forearm dataset and a right forearm dataset. Their sizes are 156 and 162 images from 78 and 81 subjects respectively. Their quality factors range from 50 to 90. The images are available in .jpg format; no other image formats will be provided.

To receive a copy of the dataset, researchers must sign this document and thereby agree to observe the restrictions listed in this document. Failure to observe the restrictions listed in this document will result in access being denied for the balance of the NTUIIS v1 and being subject to civil damages in the case of publication of images that have not been approved for release, a violation of restrictions 3, 4 and 5 below. The database will be available to researchers in the form of online. There will be no charge for the database. The researcher(s) agree/s to the following restrictions on the database:

1. The NTUIIS v1 will not be further distributed, published, copied, or further disseminated in any way or form whatsoever. This includes further distributing, copying or disseminating to a facility or organization unit in the requesting university, organization, or company.
2. All requests for copies of the database will be forwarded to the person in charge at the Nanyang Technological University (NTU), Singapore.
3. Images from this database can only be allowed to appear in technical reports, papers, and other documents published or released.

4. All the images will be used for the purpose of academic or scientific research in forensic identification only. The database, in whole or in part, will not be used for any commercial purpose in any form. Commercial distribution or any act related to commercial use of this database is strictly prohibited.
5. The images will never be associated to any persons or any group of persons.
6. All documents and papers reporting research results obtained using the database will acknowledge the use of the NTUIIS v1 using the following statement: “Portions of the research in this paper use the Nanyang Technological University Internet Images Dataset Version 1. Credit is hereby given to the Cyber Security Laboratory at the School of Computer Science and Engineering, Nanyang Technological University, Singapore for providing the database.” The documents and papers will also add citations to :

[1]. Xiaojie Li and Adams Kong, “A Multi-model Restoration Algorithm for Recovering Blood Vessels in Skin Images”, Image and Vision Computing, vol. 61, pp. 40-53, 2017.
7. Images in this database and results derived from this database will only be stored in the IT infrastructure/systems owned by the organization that the researchers work for. Images in this database and results derived from this database will never be stored in the IT infrastructure/systems owned by other organizations, including but not limited to, icloud and dropbox.
8. While every effort has been made to ensure accuracy, the database owners cannot accept responsibility for errors or omissions. The database owners reserve the right to revise, amend, alter or delete the information provided herein at any time, but shall not be responsible for or liable in respect of any such revisions, amendments, alterations, or deletions.
9. The database owners reserve the right to terminate the usage permission of the database given to the researcher(s) at any time. Once the researchers receive the notification of termination, they must immediately delete the entire database and all results derived from this database in their systems.

The person in charge:

Associate Professor Adams Kong

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Download instruction:

All requests for the NTUIIS v1 must be directed (by email) to the following address: forensics@ntu.edu.sg. Applicants should **manually fill, sign, scan and attach** the application form to the given email address. Upon receipt of an executed copy of the signed application form, access instructions will be given.

This database request is made by:

(SIGNATURE & DATE)

FULL NAME: _____

POSITION: _____

ORGANIZATION: _____

ADDRESS: _____

EMAIL: _____