

SCUT-3DFV-V1 Database

License Agreement, Version 18.12.2020

Introduction

The 3D Finger Vein Dataset Version 1.0 (SCUT 3DFV-V1) is publicly available to the research community. It is collected by Biometrics and Intelligent Perception Lab (BIP Lab), School of Automation Science and Engineering, South China University of Technology (SCUT). The SCUT 3DFV-V1 Dataset consists of raw images captured by the 3D finger vein acquisition system, point cloud-based 3D finger vein models with vein texture, unwrapped full-view finger vein images and unwrapped full-view depth images. 203 fingers are collected from volunteers of their index finger and middle finger of both right and left hands. Each finger was acquired 14 times and the 3D finger vein model was reconstructed from three raw images captured from 3 views of the 3D finger vein acquisition system. To simulate the arbitrary rotation in realistic scenarios, the volunteers are asked to rotate their fingers in various poses. The first 6 of the 14 acquisitions, the data are collected with each finger in a normal pose with small rotation no more than ± 30 degrees; for the next 6 of the 14 acquisitions, the data are collected with larger rotation no more than ± 80 degrees; for the remaining 2 ones, rotation on the other directions besides axial direction is included. Finally, There are 1218 3D finger vein models for easy rotation and 2842 3D finger vein models for hard rotation.

Consent

Researchers requesting the SCUT-3DFV-V1 Dataset agree to the following restrictions on the dataset:

1. Redistribution:

Without prior approval from BIP Lab, the SCUT-3DFV-V1 Dataset, either entirely or partly, should not be further distributed, published, copied, or disseminated in any way or form, no matter for profitable use or not, including further distribution to a different department or organization in the same system.

2. Modification:

Without prior approval from BIP Lab, SCUT-3DFV-V1, either entirely or partly, is not allowed to be modified.

3. Commercial Use:

Without prior approval from BIP Lab, SCUT-3DFV-V1, either entirely or partly, is not allowed for commercial use, including but not limited to:

- ✧ Proving the efficiency of commercial systems;
- ✧ Testing commercial systems;
- ✧ Using screenshots of subjects from the Database in advertisements;
- ✧ Selling data or making any commercial use of the Database;
- ✧ Broadcasting data from the Database.

4. Requests for the dataset:

All requests for the SCUT-3DFV-V1 Dataset must be directed to BIP Lab in the form of a signed copy of this agreement. If the request is granted, the researcher

will receive access instructions.

5. Publication and Acknowledgement:

Those seeking to include renderings of any part of data from the SCUT-3DFV-V1 Dataset in reports, papers, and other documents to be published or released must first obtain approval in writing from the BIP Lab. The data in the SCUT-3DFV-V1 Dataset should not be used in any way that could cause the original subject embarrassment or mental anguish.

All Documents and papers that report on research that uses the SCUT-3DFV-V1 Dataset must acknowledge the use of the dataset by including a citation of the paper: Kang, W., Liu, H., Luo, W., & Deng, F. (2020). Study of a Full-View 3D Finger Vein Verification Technique. IEEE Transactions on Information Forensics and Security, 15, 1175-1189.

6. Publications to SCUT-3DFV-V1:

A copy of all reports and papers that are for public or general release that use the SCUT-3DFV-V1 Dataset must be forward immediately upon release or publication to the BIP Lab.

7. Indemnification:

Researcher agrees to indemnify, defend, and hold harmless BIP Lab and its board of managers, officers, employees and agents, individually and collectively, from any and all losses, expenses, damages, demands and/or claims based upon any such injury or damage (real or alleged) and shall pay all damages, claims, judgments or expenses resulting from researcher's use of the SCUT-3DFV-V1 Dataset.

Note: Signatory must have the legal authority to sign licensing agreements on behalf of the Licensee with BIP Lab. Licensee's legal staff should review the terms and conditions of this agreement and execute it. Agreements signed by individuals without this authority are not valid and will be discarded.

SCUT-3DFV-V1 Application Form:

NAME and TITLE (In capitals)	
SIGNATURE and Data	
ORGANIZATION	
ADDRESS	
EMAIL	
TELEPHONE	

*The table can be filled in English or Chinese.

*Please scan the agreement and email to scutbip@outlook.com.