

LivDet2017

1 DATASET DESCRIPTION

The LivDet2017 is composed by three scanners, the main characteristics are summarized in the table 1.

Scanner	Model	Type	Resolution (dpi)	Image Size	Format
GreenBit	DactyScan84c	Optical	500	500x500	PNG
DigitalPersona	U.are.U 5160	Optical	500	252x324	PNG
Orcanthus	Certis2 Imag	Thermal swipe	500	300xn	PNG

Table 1:Description of used Dataset in LivDet2017

For each scanner there are two folders, one called **train set** and the other one called **test set**. The used materials in order to make the spoof sample in the train set are different from test set.

In the train the materials are: **Wood Glue, Ecoflex** and **Body Double**. In the test set the materials are: **Latex, Gelatine, Liquid Ecoflex**.

The train (test) set is composed by folders, each folder belongs to a user. The folder name is composed by three numbers, that give us supplementary informations. The nomenclature changes for each datasets.

- **Greenbit:** *NNN_AA_G* where *NNN* is a user id, *AA* is the age, *G* is the gender **0= female, 1=male**
- **DigitalPersona:** *NNN_G_AA* where *NNN* is a user id, *AA* is the age, *G* is the gender **0= male, 1=female**
- **Orcanthus:** *NNN_G_AA* where *NNN* is a user id, *AA* is the age, *G* is the gender **0= male, 1=female**

For example the user 50 is male and is 25 years old, thus:

- **Greenbit:** 50_25_1
- **DigitalPersona:** 50_0_25
- **Orcanthus:** 50_0_25

In order to measure the user-specific effect, some user are acquired twice, often in different times. The first acquisition is in the train set, and the second acquisition is in the test set. The ID number changes from the two sets, in order to take into account these changes we map the different user IDs in Table 2 .

Train set	Test set
002	050
003	039
008	040
009	042
013	045
014	044
028	043
036	051
053	054

Table 2 ID changes of the same user between the train and test set.

For example the user that in the train set has the ID **002**, in the test set has the ID **050**.