

### 3.24 Palmvein recognition library

#### Keywords

Palmvein recognition library

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#### Corporate Sponsorship Program

See Section 4 of the present document

#### File reference & version number:

Software disclosure 11285

## Functional description

This library is designed to perform a fair comparison of palm vein recognition algorithms.

## Innovative aspects

The library contains interfaces to publicly available palm vein image databases, and default evaluation protocols. Default implementations of vein recognition algorithms, which rely on BOB, are provided, e.g., for: Maximum Curvature, Repeated Line Tracking, Wide Line Detector and Local Binary Pattern Histogram Sequences.

## Commercial application examples

- Biometrics-enabled identity management systems (Automated Border Control, Access Control, ...)
- Multi-factor authentication security systems (Critical Infrastructures, e-Banking, ...)

## More information

P. Tome and S. Marcel: “On the Vulnerability of Palm Vein Recognition to Spoofing Attacks”, The 8th IAPR International Conference on Biometrics (ICB), 2015. [http://publications.idiap.ch/downloads/papers/2015/Tome\\_ICB2015-SpoofingPalmvein.pdf](http://publications.idiap.ch/downloads/papers/2015/Tome_ICB2015-SpoofingPalmvein.pdf)

## Software & IPR status

Open sourced at <https://pypi.python.org/pypi/bob.palmvein> but re-licensing possible for commercial purposes.