

SCIENTIFIC EXPERTISE

- State of the art in mathematical morphology, discrete geometry and discrete topology
- Continuous improvements
- Presented at EuroSciPy 2011 and EuBIAS 2013

APPLICATIONS

- Useful in many applications
- In all industry like: medical, biomedical, electronics, energy, materials, TICS

TRACK RECORD

- Tomography of gypsum fiber – Lafarge
- In Vitro Angiogenesis Assay – Sanofi
- Distribution of particle size in composite – EDF
- Automated toxicology assays – L'Oréal

PUBLICATIONS

M. Couprie & al. *Journal of Microscopy*, 255, p78-88 (2014)

H. Talbot & al. *Journal of Laboratory Automation*, v18, p411-415 (2013)

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THE "PINK" IMAGE ANALYSIS PLATFORM

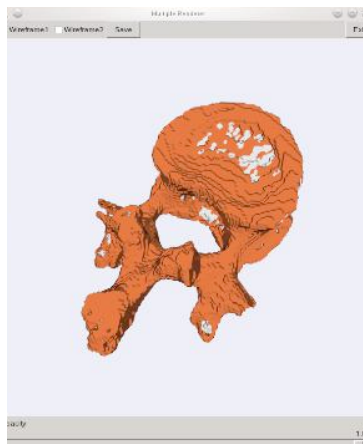
PINK is an image analysis platform for image segmentation and filtering. This library is developed by Université Paris-Est ESIEE for engineering, research and teaching purposes. It is used in many industrial sectors such as the bio-medical, medical, energy and services sectors.

Image & Signal processing ■ Algorithms ■ Operators ■
Mathematical morphology ■ Discrete geometry & topology ■
Optimization

SERVICE DESCRIPTION

PINK provides a library implementing over 200 algorithms, both original and standard, for image segmentation and filtering. The research team has a strong background in mathematical morphology. Main features include: image processing (Format and type conversion, Mathematical morphology, Digital connectivity, etc.), single shared library, Python front-end, Bash front-end and 2D/3D visualizer.

The objective is to provide tools, process scripts and methods to analyze massive data from semi-conductors, medicine, composite materials for industrial or research teams.



Reconstruction on incomplete acquisition of thoracic vertebrae



Superimposition of binary segmentation with the original object

OFFER

- Wide industrial sectors coverage
- Personalized solution identification, with optional automation
- Operators types: interactive, arithmetic, format and type conversion, mathematical morphology, digital: connectivity and topology (binary and grayscale, orders), geometrical, graphic primitives, histogram-based, signal processing, statistics, 3D meshing, visualization, segmentation
- Free and open-source software licensed under the CeCILL license
- Support for deployment of PINK on private network or resource, with an extensive set of tutorials on the Tutorials page