## **Resource Summary Report**

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# **Template Image Processing Library**

RRID:SCR 002600

Type: Tool

### **Proper Citation**

Template Image Processing Library (RRID:SCR\_002600)

#### **Resource Information**

URL: http://tipl.labsolver.org

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**Description:** A lightweight C++ template library designed mainly for medical imaging processing. The design paradigm follows generic programming, and the purpose is to provide an easy-to-use and also ready-to-use library. The code is template-based, and only header files are needed to be included to the source code. This library provides the following functions: # DICOM (r), Analyze(r), Nifti (r/w), and MATLAB MAT V4 (r/w) # numerical: add, multiply, gradient. # interpolation: linear, gaussian radial basis # filters: mean, gaussian, laplacian, sobel, anisotropic diffusion # morphological processing: erosion, expansion, opening, closing # template-based Fourier transform # linear coregistration: rigid body, affine transform, least square fit, mutual information # nonlinear coregistration: The Large Deformation Diffeomorphic Metric Mapping (LDDMM)

**Abbreviations:** TIPL

**Resource Type:** software application, software toolkit, image processing software, software library, data processing software, image analysis software, software resource

**Keywords:** reusable library, analyze, c++, dicom, format conversion, magnetic resonance, nifti, os independent, segmentation, spatial transformation, visualization, win32 (ms windows)

**Funding:** 

Availability: BSD License

Resource Name: Template Image Processing Library

Resource ID: SCR\_002600

Alternate IDs: nlx\_156003

Alternate URLs: http://www.nitrc.org/projects/tipl

**Record Creation Time:** 20220129T080214+0000

Record Last Update: 20250519T203214+0000

### Ratings and Alerts

No rating or validation information has been found for Template Image Processing Library.

No alerts have been found for Template Image Processing Library.

### **Data and Source Information**

Source: SciCrunch Registry

### **Usage and Citation Metrics**

We have not found any literature mentions for this resource.