Hybrid C++ / ImageJ Visualization System: An Example in Xmipp

Carlos Óscar Sorzano

National Center of Biotechnology (CSIC)
Campus Univ. Autonoma de Madrid, Cantoblanco, Madrid
Spain

coss@cnb.csic.es http://biocomp.cnb.csic.es/~coss/

Abstract

We present an example of how to use ImageJ as a set of useful libraries for visualization in C++. C++ classes can be exposed in Java through JNI and a hybrid Java-C++ application can be developed exploiting the visualization capabilities of ImageJ. In this case, ImageJ is used as an external library instead of as the main program. In this way, ImageJ classes can be integrated into visualization components providing extended functionalities.

Biography

Carlos Óscar Sorzano is technical director of the Instruct Image Processing Center. This center provides service and infrastructure for image processing in Structural Biology. His research interests include image processing for electron microscopy. He is the coordinator of the Biomedical Engineering degree at Univ. San Pablo - CEU.