



## OPTIMAGE – A SOFTWARE TOOL THAT PROVIDES A HIGHER LEVEL OF IMAGE QUALITY CONTROL FOR RADIOLOGY DEPARTMENTS

DEVELOPED IN PARTNERSHIP WITH REGIONAL HOSPITALS AND THE LUXEMBOURG MINISTRY OF HEALTH, OPTIMAGE IS AN OPEN SOURCE SOFTWARE THAT PROVIDES AUTOMATED IMAGE ANALYSIS FOR QUALITY CONTROL IN MEDICAL IMAGING MODALITIES.

### Why Use OPTIMAGE?

OPTIMAGE is an easy to use, stable and cost efficient tool that facilitates phantom image validation to technical reference values as well as providing reporting and statistical analysis functions. With over 300 downloads from users in Europe, Asia and the Americas, OPTIMAGE continues to improve thanks to its use in ongoing research programs and its open source structure.

### Key Functionality

- Optimage reads and evaluates digital phantom images and produces objective results based on international standards. Segmentation and evaluation is done automatically with a minimum human interaction.
- Flexible local access to DICOM files as well as the ability to work with images via a PACS connection. Easily access other storage mediums like DICOMCD, DICOMDIR or over a network.
- Advanced reporting that can be run over an extended period. Data can be exported to CSV or Excel formats and reports can be created in any format.
- Statistical functions that easily display reference value violations as well as the ability to display different alarm or control settings
- OPTIMAGE has been developed in JAVA™ and will work on MAC OS X, LINUX and Windows platforms. It is available in English, German, French and Spanish. Italian will be available soon.
- OPTIMAGE uses the Tudor DICOM tools - DICOM header data mining and comparison, image anonymization and built in access to the well known ImageJ software so that users can have additional data manipulation features

Currently, OPTIMAGE supports the analysis of the following modalities: Computed Tomography (CT), Digital Mammography, Digital Planar X-ray, Magnetic Resonance Imaging (MRI), and Nuclear Medicine.

### Contact Us for More Information

CR SANTEC, the health care informatics department of the Public Research Centre Henri Tudor, is actively involved in radiological dose studies and the creation of software for assessing image quality in the medical imaging domain. For more information please email us at [info@santec.lu](mailto:info@santec.lu)

