SIEMENS

Algorithm Validation Toolkit
AVT2EXT

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User Manual
Getting Started
Revision 1.0

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History

Document History

Version/ Status	Date of Issue	Author	Change and Reason of Change
0.1 Draft	7-June-2010	Robert W. Schwanke	

History of released Versions

Version	Release date	Product Version

Table of Contents

1. Introduction

This report gives an overview of the AVT documentation,.

2. Learning about AVT

If you want to learn what AVT is all about, before (or without) installing it, here are two documents to help you:

2.1. A PowerPoint™ demo of AVT

The release package includes the file

DemoMeasurementExperimentUsingAVT-YYMMDD.ppt

which is made up of 50 screen shots of an AVT demonstration.

2.2. Vision, Scope, and Technical Overview

This document provides a six-page overview of the AVT system.

3. Trying out AVT

If you are now convinced that you want to install AVT and try it out, here are the documents that can help.

3.1. Installing AVT

The latest version of the installation instructions is available in the NCI Wiki (prior to release it is in the SCR public wiki,

https://collab01a.scr.siemens.com/avtwiki/index.php/AVT_Installation

A traditional Installation Manual is included in the release package.

3.2. A tour of AVT

Once you have AVT installed, the best way to become familiar with AVT is to follow the instructions in the wiki page, “A Tour Through AVT2EXT”, found at

https://collab01a.scr.siemens.com/avtwiki/index.php/A_Tour_Through_AVT2EXT

A snapshot of this page is included in the release package, as

AVT_TourAVT2EXT_100504.pdf

Following the tour will cause you to use almost all of the user interface capabilities of AVT.

3.3. User manuals

Two of the three AVT applications also have user manuals:

- Image Annotation User Manual
- Measurement Variability Tool User Manual

The Algorithm Execution tool is so simple to use that the documentation in the Tour is all you need.

3.4. DICOM Conformance Statement

If you want to try AVT on DICOM images other than those mentioned in its documentation, you may want to read the DICOM Conformance Statement to see whether AVT has been tested on the types of images you are interested in.

3.5. Administration Guide

If you decide to use AVT extensively, you will need to consult the Administration Guide for instructions on backing up the database and on reviewing the audit trail.

4. Modifying AVT

4.1. Programming Guide

The programming guide tells you how to rebuild the installed system after modifying its source code. It also gives suggestions for how to perform certain customizations that are likely to be needed when adapting AVT to support a new experiment.

> **NOTE**: AVT is delivered in open source and licensed as such under the caBIG® licensing rules. The Programming Guide contains a section identifying the third-party software packages used in AVT and their licenses. The licenses are also copied into the AVT installation package.

4.2. Improvement Plan

This document describes specific areas of AVT where there is a recognized need for further development.

4.3. Requirement Specification

These are the requirements implemented in the current version of AVT.

4.4. Functional Specification

These are the use cases currently implemented.

4.5. Design Specification

This document addresses selected topics in the design of AVT

4.6. Implementation Plan

This document describes how AVT was implemented.

4.7. Test Plan

This document describes how AVT was tested.

5. Future project plans

There is a project already under way in the NCI In Vivo Imaging workgroup to elicit the requirements for the next generation of AVT.