MIM Extensions™ Locations

Overview

A comprehensive list of MIM-provided extensions and where to find them within the extensionDevelopment folder that can be downloaded here.

Installation and Use

Refer to the MIM Software Java® and MATLAB® Extensions Quick Start guides for technical information and installation help.

Extension Name	Folder Name	Description
MATLAB Max Dose Finder	contourDoseStats.zip	Locates the maximum dose value within a specified contour and places a marker contour at that location. A dose volume must also be specified. Both the marker contour and the max dose value are returned as outputs.
Contour Inverter	contourInverter.zip	Plots the axial slices of the selected contour using an external mathematics suite.
Dose Scaler	doseScaler.zip	Scales the values in the dose volume by the specified scale factor then sends the resulting dose back to MIM.
4D Mean	fourDeeMean.zip	Generates a 3D series that is the mean of all of the 3D frames from a 4D series.
Hybrid DefReg	hybridDefReg.zip	Launch a MATLAB extension passing a deformable registration matrix. Modify the matrix in MATLAB and then output a new deformed secondary series.
4D Diff Revealer	java4dSamples.zip	Highlights differences between adjacent 4D frames.
Chrontour "AND"	java4dSamples.zip	Performs an "AND" operation across all frames of a 4D contour.
AUC-CSH Hereogeneity Analysis	javaAUCCSH.zip	Creates a histogram for heterogeneity analysis using the AUC-CSH method.
4D Maximum Centroid Motion	javaContourSamples.zip	Computes the maximum centroid motion of a 4D contour.
Average Counts Per Region	javaContourSamples.zip	Adds an Average Counts Per Region statistic to all contours.

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Algorithm	Applications	Method
Contour - Maximum Orthogonal Dimensions	javaContourSamples.zip	Finds the maximum dimensions of the currently active contour.
Contour & Dose to CSV	javaContourSamples.zip	Outputs a CSV file that contains a list of all of the scaled values of the multiplied voxels contained within the selected contour and the associated dose.
Contour Min Max Finder	javaContourSamples.zip	Finds the minimum and maximum voxels from an image, constrained by a contour.
Contour Splitter	javaContourSamples.zip	Splits a contour by slice.
Contour to CSV	javaContourSamples.zip	Outputs a CSV file that contains a list of all of the scaled values of the multiplied voxels contained within the selected contour.
Draw Sphere	javaContourSamples.zip	Draws a roughly spherical contour in the center of the series with a radius of 25 mm.
Ejection Fraction	javaContourSamples.zip	Adds the Ejection Fraction statistic to the 4D contour provided.
Longitudinal Dimension	javaContourSamples.zip	Adds a statistic that is the total length of the contour in the longitudinal direction.
A-P Dimension	javaContourSamples.zip	Adds a statistic that is the total length of the contour in the AP direction.
Max Finder	javaContourSamples.zip	Finds the max voxel in the provided contour and creates a marker contour for it on the provided series.
Deformation Swirler	javaDeformation.zip	Applies a swirl transform to a deformation field and recreates the deformed image based on the modified transform.
Convert DICOM to CSV	javaDicomToCsv.zip	Reads some of the DICOM tags for a series and appends the data to a specified CSV file.
Dose Processing Sample	javaDoseSample.zip	Scales each value in the dose volume by (rawVolumeValue/meanBodyValue).

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CustomConstraintStatistic	javaDVHSample.zip	Computes the total dose received by the coolest part of a contour.
DVHToCsv	javaDVHSample.zip	Writes a DVH out to a CSV file.
ContourDrawer	javaMaxVoxelSUV	Draws a one 1x1x1 voxel contour around the input point.
Max SUV Voxel	javaMaxVoxelSUV	Draws a spherical contour around the crosshair point, then draws a contour around the max value voxel center inside the sphere.
SphereMaxFinder	javaMaxVoxelSUV	Find the minimum and maximum voxels from a series, constrained by a spherical contour.
Beam Reader	javaMisc.zip	Logs the beam names and descriptions from any RTPLAN that has been loaded into the current session.
Contour Boolean Return	javaMisc.zip	Asks the user "yes" or "no" and returns an empty contour to mean "no" and a non-empty contour to mean "yes."
Deep Image Copy	javaMisc.zip	Outputs a deep copy of the series passed in.
Dose Point Contour Extractor	javaMisc.zip	Exports the dose value at the point contours of a given series to a CSV file.
Normalizer	javaMisc.zip	Creates a normalized copy of the selected series.
Conformity Index (N ROI DICE coefficient)	javaNROIDICE.zip	Calculates a conformity index (N ROI DICE coefficient) as defined by Erik Kouwenhoven et al.
Quartile Statistics	javaQuartile.zip	Adds quartiles to contour statistics.
Skeletalectomy	javaSkeletalectomy.zip	Derives a new 3D series which consists of only bones (used with Java).

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Slabbing	javaSlabbing.zip	Derives a new 3D series which may have fewer slices.
Voxelwise Math w/ Formula as Input	javaVoxelwiseMath.zip	Derives a new 3D series where the voxels are calculated based on a user-defined voxelwise formula.
MATLAB Image Deformation	matlabDeformation.zip	Image deformation example.
DVH Grapher	matlabDVH.zip	Uses the MATLAB plotting framework to plot the DVH associated with a contour.
MATLAB Skeletalectomy	matlabSkeletalectomy.zip	Derives a new 3D series which consists of only bones (used with MATLAB).
MATLAB Sphere Maker	matlabSphereMaker.zip	Creates a new spherical contour (located at the center of the provided series) with the specified radius (in mm).

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