

DRIQ version history

DRIQ 1.5 - 20160303 11:35

Routine(s) affected: DRIQ, DRIQCommons, JLDICOMBrowser

Details of changes (DRIQ): Added drag and drop functionality to DRIQ.

Details of changes (JLDICOMBrowser): Added constructor taking a file list as input. Added initialisation to handle a file list instead of a starting directory.

DRIQ 1.4.10 - 20160223 11:35

Routine(s) affected: DRIQ

Details of changes (DRIQ): Added copyright text to DRIQ title. Increased default window height by 30 pixels.

DRIQ 1.4.9 - 20160108 16:35

Routine(s) affected: DRIQCommons

Details of changes (DRIQCommons): Added function to return a column ID (e.g. A,B,C,D etc.) given a column number (left most column=1)

DRIQ 1.4.8 - 20151211 17:35

Routine(s) affected: NNPSJL, JLDICOMBrowser (DICOM browser with noise)

Details of changes (JLDICOMBrowser): Added code to remember the last used directory.

Details of changes (NNPSJL): Changed the default roi for multi-slice NNPS measurements. Now finds the smallest roi that encloses all sub rois on all images and centres this instead of just centering the first roi in the first slice. No change for single slice images or the IEC method. Added code to draw the sub rois on each image analysed in red. As the user cycles through the slices the sub roi used for that particular slice is highlighted in green.

DRIQ 1.4.7 - 20151204 14:40

Routine(s) affected: DRIQCommons

Details of changes (DRIQCommons): Added warning if user does not press enter when entering a custom SNR value in the DQE settings page. If return is not pressed before saving then the SNR defaults to 1.

DRIQ 1.4.6 - 20151102 17:35

Routine(s) affected: JLDICOMBrowser (DICOM browser with noise)

Details of changes (JLDICOMBrowser): Changed such that if user selects a file that is not a valid JLDICOMBrowser file then it gives the user the option to search the parent directory instead. Increased width from 900 to 1000 to fit thumbnail in by default.

DRIQ 1.4.5 - 20151029 16:35

Routine(s) affected: DRIQCommons, MTF, JLDICOMBrowser (DICOM browser with noise)

Details of changes (MTF): Uncommented the routine to centre the roi over the edge. Had been commented out in 1.4.4

Details of changes (DRIQCommons): Added check to ensure average DICOM stack button works even if only one image selected. Changed getPixelSize routines to try 0018,7020 before 0028,0030. Stopped user from reordering columns in the DICOMsettings menu.

Details of changes (JLDICOMBrowser): Moved the filename column to the second column instead of the second last column. Added ability to load previously saved JLDICOMBrowser results files. Added ability to cope with Microsoft Windows symbolic links.

DRIQ 1.4.4 - 20151023 16:35

Routine(s) affected: MTF

Details of changes (MTF): Added checking and warning to detect ESFs with empty bins. Interpolate the missing bins to allow calculation but display a warning.

DRIQ 1.4.3 - 20151019 16:35

Routine(s) affected: MTF

Details of changes (MTF): Improved angle detection by adding additional tests to help discard dust, etc from edge fit. Also added error checking to abort and give error message if fewer than 10 points are found along the edge.

DRIQ 1.4.2 - 20151013 16:35

Routine(s) affected: DRIQCommons, MTF

Details of changes (DRIQCommons): Corrected function gaussianRandom - was previously unused but unusable. Still unused but now useable

Details of changes (MTF): Improved accuracy of angle detection by interpolating to find subpixel locations of edge in each row.

DRIQ 1.4.1 - 20150922 11:00

Routine(s) affected: DRIQCommons, DQE

Details of changes (DRIQCommons): Added IEC beam qualities for mammography to default options in DQE routine. Added method getNumericVersion().

DRIQ 1.4.0 - 20150902 15:48

Routine(s) affected: DRIQCommons, JLDICOMBrowser (DICOM browser with noise)

Details of changes (DRIQCommons, JLDICOMBrowser): Corrected method getDICOMFileNameArray to avoid division by zero when a directory containing only one file is selected by the user.

DRIQ 1.3.9 - 20150805 13:20

Routine(s) affected: NNPS

Details of changes (NNPS): Binned v section y index had an incorrect additional -1. ($y_2=N/2-1-y$; should have been $y_2=N/2-y$;))

DRIQ 1.3.8 - 20150803 23:20

Routine(s) affected: NNPS

Details of changes (NNPS): Fixed the 3D plot to work on MAC OSX.

DRIQ 1.3.7 - 20150803 18:00

Routine(s) affected: NNPS

Details of changes (NNPS): Changed code sampling the NNPS - now sort out the quadrants before sampling rather than after.

DRIQ 1.3.6 - 20150803 17:10

Routine(s) affected: NNPS

Details of changes (NNPS): Corrected code so that running the IEC method no longer affects the original image or stack. Previously the routine subtracted the polynomial fit from the original stack or image.

DRIQ 1.3.5 - 20150803 13:30

Routine(s) affected: MTF, NNPS, NEQ, DQE, DRIQCommons

Details of changes (DRIQCommons): added method getVersion to return the current version of DRIQ. Used DRIQCommons method getVersion instead of hard coding version

Details of changes (MTF,NNPS,NEQ,DQE): used DRIQCommons method getVersion to include the DRIQ version number in the output

Details of changes (MTF): changed method reOrientateEdge() by adding the minimum value of the ESF when inverting the pixel values. This ensures that the values in the ESF still correspond to Air Kerma values even after inversion. Used DRIQCommons method getVersion to include the DRIQ version number in the output.

DRIQ 1.3.4 - 20150716 18:30

Routine(s) affected: NNPS

Details of changes (NNPS): Corrected code handling overlapping rois. Corrected check that IEC standard roi fits within image. Corrected polynomial subtraction in IEC method... was fitting to each sub roi but IEC standard says to fit to each complete image instead.

DRIQ 1.3.3 - 20150715 17:44

Routine(s) affected: JLDICOMBrowser (DICOM browser with noise)

Details of changes (JLDICOMBrowser): Altered JTable class to allow right click options even when no rows present in filtered table. Added check to disable keep and lose filter options if visible table rows equals zero.

Altered JTable class to provide filter options correctly even after user has moved columns around.

Added custom Comparator to each column in JTable to ensure that all numeric values are correctly sorted as numeric rather than String.

Added routine to sort by StudyID,series number, acquisition number, image number before displaying JTable.

Increased default width from 800 to 900 so that thumbnail images are not cut off.

DRIQ 1.3.2 - 20150714 14:34

Routine(s) affected: DRIQCommons,JLDICOMBrowser (DICOM browser with noise), NNPS

Details of changes (JLDICOMBrowser): Corrected addRow method in dicomTagSetting class. When a new row was created was previously failing to add an entry for the third column leading to out of index errors.

Added method getCalibratedStdDev(ImagePlus impIn,Roi roiIn,double calibratedMeanIn) to avoid repeating calculation of calibrated mean if it has already been established. Allowed automatic re-sizing of the table to fit the allowable space. Kept buttons roughly constant size at bottom of display area by changing GridBagLayout weights.

Details of changes (NNPS): Corrected indices used for sampling sections of the NNPS along the axes (was one pixel further away from axes than necessary).

DRIQ 1.3.1 - 20150702 16:44

Routine(s) affected: DRIQCommons, JLDICOMBrowser (DICOM browser with noise)

Details of changes (DRIQCommons): Adjusted standard deviation calculation in calibratedStats class - was crashing for some images.

DRIQ 1.3 - 20150630 16:47

Routine(s) affected: JLDICOMBrowser (DICOM browser with noise), DRIQCommons

Details of changes (DRIQCommons): Added methods getCalibratedMin, getCalibratedMax. Added class calibratedStats.

Details of changes (JLDICOMBrowser): Used new class calibratedStats to get measurements. Added ability to divide DICOM tags by a specified value automatically. Added details of any division occurring to the relevant column header.

DRIQ 1.2 - 20150604 16:47

Routine(s) affected: MTF, DRIQCommons

Details of changes (MTF): Added calculation of MTF50 and MTF10 to output using simple piecewise linear interpolation from full data and moving window (2 points either side) least squares linear interpolation from full data

Details of changes (DRIQCommons): changed function getInterpolationIndex to cope with non monotonically increasing values of knownXs. Achieved by checking if knownXs[0] is greater than knownXs[knownXs.length] and if so multiplying all knownXs and newXs by -1.0. Also changed such that if the index to return is \leq windowSize the return zero (rather than windowSize as in DRIQ 1.1).

Changed function interpolateFromBestLinearFitToWindow to interpolate over range start to $\text{start} + 2 * \text{windowSize}$ (rather than start to $\text{start} + 2 * \text{windowSize} + 1$ as in DRIQ1.1)

Changed function inverseDistanceWeightedInterpolation to interpolate over range start to $\text{start} + 2 * \text{windowSize}$ (rather than start to $\text{start} + 2 * \text{windowSize} + 1$ as in DRIQ1.1)

Changed function movingAverageInterpolation to interpolate over range start to $\text{start} + 2 * \text{windowSize}$ (rather than start to $\text{start} + 2 * \text{windowSize} + 1$ as in DRIQ1.1)

Changed function medianInterpolation to interpolate over range start to $\text{start} + 2 * \text{windowSize}$ (rather than start to $\text{start} + 2 * \text{windowSize} + 1$ as in DRIQ1.1)

DRIQ 1.1 - 20150524 22:49

Routine(s) affected: NNPS, JLDICOMBrowser (DICOM browser with noise)

Details of changes (NNPS): Fixed bug in calculation of variance before linearisation for linear systems (a factor of B was missing)

Details of changes (JLDICOMBrowser): Added recognition of additional DICOM tags to provide better support and recognition of mammography systems; improved the routine to parse files for and open NEMA format files. Added list of file known file extensions to speed up process by not parsing the known file types e.g. xls,xlsx, doc, docx etc.