Spatial Filters

The Spatial Filters module enables the application of two-dimensional and three-dimensional filters to image data. This exercise will demonstrate how to apply a filter in the Spatial Filters module to your data.

1. Load the MRI_3D_Head.avw data set from the $:\BIR\images\TutorialData directory.
2. Open the Spatial Filters module (Process > Spatial Filters).
3. Open the Preview Options window (Generate > Preview Options).
4. Select the Loaded and Preview Volumes option (figure 1). This will preview the original data set and a copy of the data set with any filter applied, side-by-side.
5. Open the Filters window (Generate > Filters).
6. In the Filters window, select the Low Pass filter by clicking the radio button next to the option (figure 2).
7. Now, click Preview. The original data set and the filtered data set will be displayed side-by-side in the main Spatial Filters window (figure 3), the filtered data set appears on the right.
8. Preview several other filters, noting the effect of each.
9. To apply a filter to the data set, click Filter in the Filters window. A dialog box will be returned stating that the action modifies the loaded volume, click Change a Copy of the Loaded Volume.
10. A filtered copy of your volume will be saved to the Analyze workspace.
11. Close the Spatial Filters module before proceeding to the next exercise.