

# HANDLING AND ALIGNMENT OF LARGE, MULTI DIMENSIONAL IMAGE DATA USING ARIVIS BROWSER SUITE

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In this paper we describe the „arivis Browser Suite“, a software system for handling very large, multidimensional image data, especially from scientific and technical applications. First we present some basic concepts, for instance the Multiple Image Stack idea. After this introducing part we will show some of the distinguished properties of the software system. Especially we will focus on its ability to acquire, store, align, manage and analyze image data of almost infinite size and several image dimensions. Furthermore we present the browsers image acquisition capabilities and its extensibility by an easy to use, well documented plug-in interface. After this first overview we will discuss some applications implemented recently. In detail we will figure out some results of searching optimized pixel based strategies for aligning fluorescence images acquired by a confocal laser scanning microscopy using the arivis Browser acquisition system.

Examples of references

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