

BIGDATAPROCESSOR - A FIJI PLUGIN FOR PRE-PROCESSING OF TB SIZED IMAGE DATASETS

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Abstract:

Inspection and manipulation of TB sized image data as produced by current state-of-the-art light and electron microscopy poses several challenges. Even seemingly simple data operations such as browsing, cropping and applying corrections caused by chromatic shifts or mechanical drift poses challenges when applied to TB sized image data. Whereas several powerful open source tools for big image data visualisation[1] and stitching[2] have emerged, we identified a need for a complementary and efficient pre-processing tool capable of handling big image data.

To address this we developed BigDataProcessor – a FIJI[3] plugin facilitating and simplifying big image data pre-processing workflows. Here, we present the functionality of the plugin and demonstrate use-cases for light sheet microscopy data[4].

References:

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