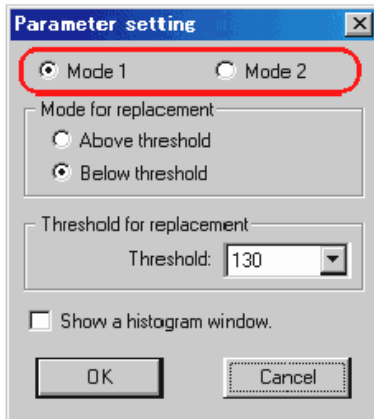# Image Superposition [II]

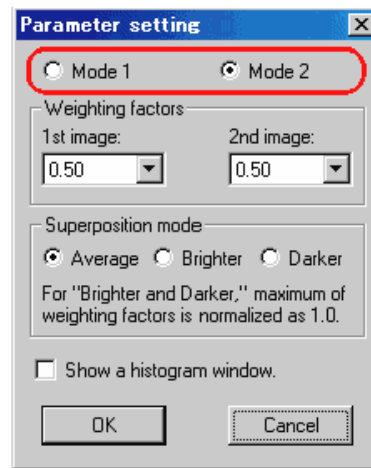## $1. Introduction

This application software has following features.

1. A part of the 1st image is replaced with the 2nd image (8 bits grayscale bitmap image, or 16/8 bits grayscale tiff image), if pixel intensity of the 1st image is higher (or lower) than that of the 2nd image, by using a threshold value selected.
2. The 1st and the 2nd images (8 bits grayscale bitmap image, or 16/8 bits grayscale tiff image) are superposed with weighting factors, by using average mode, brighter mode or darker mode.

Mode 1   Mode 2

$2. Functions

Prm.   Sets parameters.

Opens the 1st SEM image (8 bits grayscale bitmap, or 16/8 bits grayscale tiff).

Opens the 2nd SEM image (8 bits grayscale bitmap, or 16/8 bits grayscale tiff).

Makes a processed image by using the 1st image and the 2nd image.

Copies the processed image to the Clipboard.

Saves the processed image with a filename.

Shows the version information.
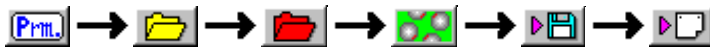
(This file.)

Closes this application software.

$3. Images to be processed

Regarding SEM images, prepare 8 bits grayscale bitmaps, or, 16/8 bits grayscale tiffs,   both having un-compressed format.

[SEM image size N x M: 64 <= N, M]

****
Note: The 1st and the 2nd images must have completely same sizes.
****

$4. How to Use

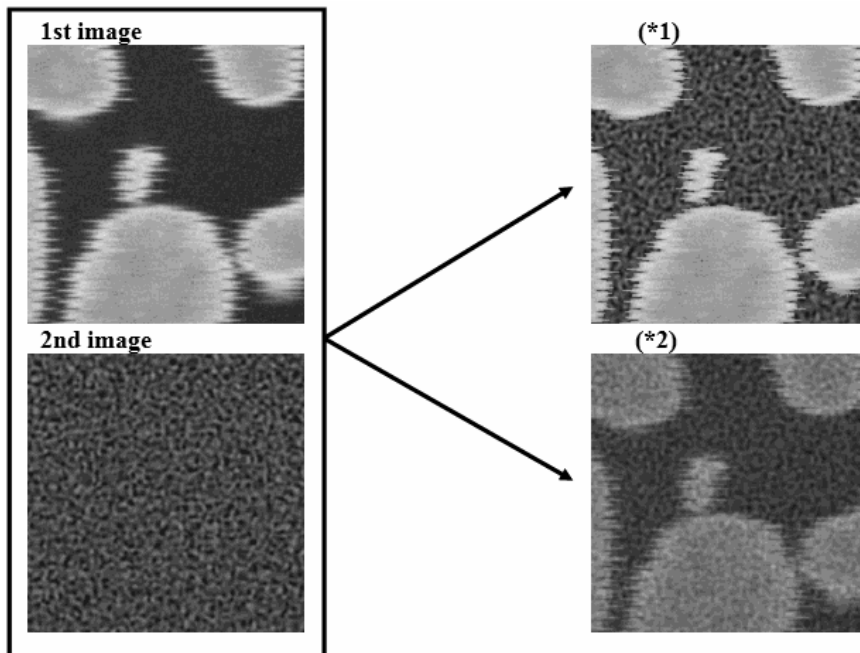Prm. → 📂 → 📁 → 🔬 → 💾 → 📋

1. **Set parameters by** Prm. **button.**

2. **Open the 1st SEM image (which satisfies the above requirement) by** 📂 **button.**

3. **Open the 2nd SEM image (which satisfies the above requirement) by** 📁 **button.**

4. **Make a processed image by using the 1st image and the 2nd image by** 🔬 **button.**

5. **Save the processed image by** 💾 **button.**

6. **Copy the processed image to the Clipboard by** 📋 **button, if necessary.**

****

Note: The image is not automatically saved.

Please use the 💾 **button for saving the processed image.**

****

$5. Examples

(*1): **The 1st image is partially replaced with the 2nd image, by "below threshold mode."**
     Actually, the background structure of the 1st image is replaced with the structure of
     the 2nd image.

(*2): **The 1st image and the 2nd image are superposed, by "average mode."**

Kimio Kanda