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ABSTRACTS

The Holy Shroud shown to the blinds

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One of the most interesting cultural heritage from scientific and religious point of view is the Holy Shroud of Turin. In the last exposition in 2000 the authors have realized the first tactile version, by using the picture of the Enrie obtained in 1931.

Since 2002, after the conservation work consisting in removing the holland cloth and the patches used to repair the fire damage of 1532, several new images have been acquired. The aim of our work consists in comparing the different 2D and 3D information in the mentioned pictures and using them in order to make a new tactile version of the front and the reverse of the body image.

Assessing automatic registration methods applied to digital analysis of historical documents

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We first review various cases of interest in document image analysis where spatial registration is necessary. For reasons related to both the optical sensors and the acquisition procedures, the different image components in multispectral-multiview images can be spatially misaligned. This happens commonly in color or multispectral imaging and in recto-verso acquisition, and many image processing and analysis tasks need to work with precisely located data points. We report the results of our evaluation of several registration methods that do not require human intervention, showing that registering recto-verso pairs is normally much more difficult than aligning multispectral channel images.