



BRIGHTNESS BALANCING IN IMAGES

Correction of differences in brightness causing striping in images

Technological advantages

Image-specific calibration

- Auto-calibration of the image to process
- Brightness assessment at pixel-level and at that of wider areas

Universal image manipulation

- Image processing independent of acquisition type
- Requires no additional image or calibration

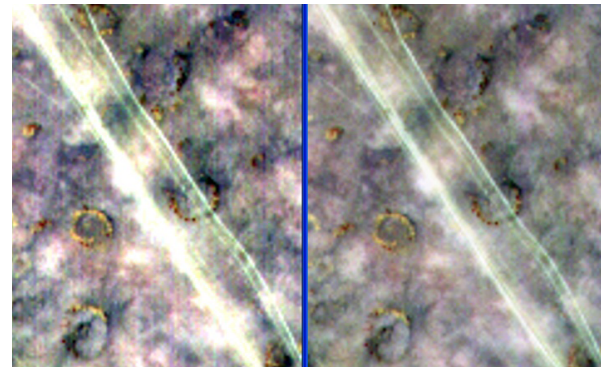


Image before (left) and after (right) processing

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Summary of the invention

Creation of a filter for correcting striping on images caused by local differences in sensor response

The level of correction to be performed is an iterative calculation comparing the brightness data across the neighbouring pixel columns. A correcting filter is then applied to the original image.

Commercial benefits

Improving image quality

- Brightness balancing in the final image
- Correcting the effects of striping

Economy of resources

- Possibility of applying a set of predefined parameters to correct similar images
- No pre-calibration required

Potential applications

- Combatting forgery
- Medical imaging
- Aircraft and satellite mapping
- Space imaging
- Production inspection

TRL: 6

Patented invention, available under licence