



IMPROVEMENT OF IMAGES BY PIXEL REALIGNMENT

Correction of defects caused by alternate acquisition systems

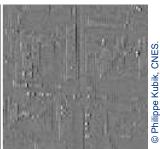
Technological advantages

Optimisation of existing systems

Initially designed for sweep acquisition systems Adaptable to other acquisition means causing pixel shifting

Based on a single pre-sampling





Original image (left) and correction filter to apply (right)

Summary of the invention

Correction of pixel alignment faults by means of advanced image manipulation

The images captured by an alternate acquisition device, such as anti-glare systems, may be subject to defects, particularly pixel shifting. The image manipulation proposed applies a correcting filter to the original image.

Commercial benefits

Improving image quality

Increased image quality

The benefits of alternate acquisition are retained, such as anti-glare

Correction of outline aliasing

Systematic correction of a series of similar images

Possibility of defining systematic correction parameters

Potential applications

Medical imaging

Space imaging

Production inspection

Satellite mapping

Combatting forgery

TRL: 4

Patented invention, available under licence