

Title (en)

PIXEL-WISE NOISE REDUCTION IN THERMAL IMAGES

Title (de)

PIXELWEISE RAUSCHVERMINDERUNG BEI THERMISCHEN BILDERN

Title (fr)

RÉDUCTION DU BRUIT DANS LE SENS DES PIXELS DANS DES IMAGES THERMIQUES

Publication

EP 2898669 A1 20150729 (EN)

Application

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Abstract (en)

[origin: WO2014047075A1] Methods and systems are provided to reduce noise in thermal images. In one example, a method includes receiving an image frame comprising a plurality of pixels arranged in a plurality of rows and columns. The pixels comprise thermal image data associated with a scene and noise introduced by an infrared imaging device. The image frame may be processed to determine a plurality of column correction terms, each associated with a corresponding one of the columns and determined based on relative relationships between the pixels of the corresponding column and the pixels of a neighborhood of columns. In another example, the image frame may be processed to determine a plurality of non-uniformity correction terms, each associated with a corresponding one of the pixels and determined based on relative relationships between the corresponding one of the pixels and associated neighborhood pixels within a selected distance.

IPC 8 full level

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