

## A METHOD TO CREATE FILTERS TO NORMALIZE THE INPUT VALUES PRESENT IN THE IMAGES

ISBELIA KARINA RINCON<sup>1</sup>, SIR-ALEXCI SUAREZ<sup>2</sup> & ALBERT MIYER SUAREZ<sup>3</sup>

<sup>1,2</sup>Engineering Faculty, University Francisco de Paula Santander Ocaña, Colombia

<sup>3</sup>Faculty of Engineering and Architecture. University of Pamplona, Colombia

### ABSTRACT

*This research presents a method for the generation of masks, which allow to normalize the values obtained in the capture of an image. The proposed steps take as reference the Laws normalization mask, where the average of its rows, columns and the whole mask is equal to 0, and part of the vector R5 as normalization pattern. The creation of the masks is an alternative to increase the normalization power of images containing noise when trying to extract descriptors that allow their recognition, the masks that do not comply with the normalization property are used for discrimination in the convolution process.*

**KEYWORDS:** Law masks, Image normalization & Image processing

**Received:** Nov 24 2020; **Accepted:** Dec 14, 2020; **Published:** Dec 26, 2020; **Paper Id.:** IJMPERDDEC202066