

# Characterization of Linear and Morphological Operators

(invited lecture)

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**Abstract.** In image processing, the transformations of an image to another one are obtained through operators. Among the most important operators we have the linear operators and the morphological ones (dilations and erosions). In this talk we recall the definition of these operators and we present an algebraic characterization of them for the case of spatial invariance. The importance of this characterization is that it shows the differences and what are similar between the linear and morphological operators. It helps to understand how these operators are built.



For further details see <http://hermes.dpi.inpe.br:1905/rep/dpi.inpe.br/banon/1999/06.21.09.31>