

## Local textures parameters of images in space domain obtained with different analytical approaches

**Robert Goutte**

*University of Lyon, INSA , labo CREATIS, Umr Cnrs 5220, Inserm 1206,Lyon,France  
Emeritus professor  
Email:goutte@creatis.insa-lyon.fr*

### **Abstract**

The aim of this study is to determine and compare, in the spatial domain the different local texture parameters of 2D image. For this, we define the realizations of analytical images obtained in the spatial domain with three transformation approaches (Fourier, Hamilton and Riesz). The generalization to 3D image is envisaged.

*Keywords: Textures, analytical signal, Fourier, Hamilton, Riesz, Transformations*