Is the spectral hash just a kind of crypto hash? Why is used in the high dimension search?

如果图片当成message输入到spectral hash函数，得到的为二进制数值，这个与相似性如何判断，只是靠海明距离？二进制为之间的相差的个数？

Abstract. We describe a new family of hash functions using the discrete Fourier transform and

a nonlinear transformation constructed via data dependent permutations. DFT is a well-known

cryptographic primitive perfect for generating diffusion and confusion. Due to the usage of the

DFT with a nonlinear transformation, the proposed hash generation method is immune to known

attacks. Since spectral methods yield efficient and highly parallel architectures, s-hash is highly

suitable for hardware realizations.