

Two Dimensional Short Time Hartley Transforms

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ABSTRACT: The Hartley transform, as in the case of the Fourier transform, is not suitably applicable to non-stationary representations of signals whose statistical properties change as a function of time. Hence, different versions of 2-D short time Hartley transforms (STHT) are given in comparison with the short time Fourier transform (STFT). Although the two different versions of STHT defined here with their inverses are equally applicable, one of them is mathematically incorrect/incompatible due to the incorrect definition of the 2-D Hartley transform in literature. These definitions of STHTs can easily be extended to multi-dimensions. Computations of the STFT and the two versions of STHTs are illustrated based on 32 channels (traces) of synthetic seismic data consisting of 256 samples in each trace. Salient features of STHTs are incorporated.

Keywords: Fourier transform; Hartley transform; Wavelet transform; Time; Frequency and Window.

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الملخص: إن تحويل هارتلي، كما هو الحال بالنسبة لتحويل فورييه، لا يتعلق بشكل مناسب للتعديل غير الثابت للإشارات التي خصائصها الإحصائية تتغير كدالة في زمن؛ بالتالي إصدارات مختلفة من تحويلات هارتلي للزمن ثنائي الأبعاد الزمن القصير (STHT) تقارن مع تحويل فورييه للزمن القصير (STFT). بالرغم من وجود إصدارين مختلفين من STHT المعرفه هنا مع معكوسها الذين متساويان في التطبيق، فإن أحدهما غير صحيح، متوافق رياضيًا بسبب التعريف الغير صحيح لتحويل هارتلي للبعدين في المنشورات. ومن الممكن توسيع تعريفات STHT بسهولة إلى أبعاد متعددة؛ وقد تم توضيح حسابان STFT و تعريف الإصدارين لـ STHT بالاستناد إلى قناة 32 (أثر) من البيانات الزلزالية المولدة تتألف من 256 عينة في كل أثر. كما تم دمج الخصائص البارزة لـ STHTs.

الكلمات المفتاحية: تحويل فورييه، تحويل هارتلي، تحويل الموجات، الزمن، فريكو لنسي والتاقلد.

1. Introduction

It is well known that the elegant mathematical tools, the Fourier transform (FT) and Hartley transform (HT), were invented in 1807 and 1942 respectively. Subsequently, the theory of spectral analysis began with the breakthrough of Tukey in 1949 [1]. However, the computational feasibility of the FT was a reality only when the great breakthrough occurred in the form of the fast Fourier transform (FFT) algorithm that was brought out in 1965 by Cooley and Tukey [2].

In general, the FT gives the spectral content of the signal, devoid of any information regarding the time at which those spectral components appear. Such a result is appreciable only for stationary signals [3], whose frequency content does not change with time. In most of the cases, a particular spectral component occurring at a specific time instant can be more useful and interesting, as in the case of seismological data which is non-stationary, and in which the frequency of the signal varies with time. Mathematicians and researchers are aware that the Fourier transform is best suited to process stationary signals; however, most of the information and data we come across in our day to day life are not stationary. To achieve time localization of frequency of a non-stationary signal while using the FT, it is necessary that the signal be subjected to narrow windows, narrow enough that the portion of the signal seen from these windows is indeed stationary. This approach is called the short time Fourier transform (STFT), which is a modified version of the FT. In the STFT, the given signal is divided into small segments, such that each segment of the signal can be assumed to be stationary. For this purpose, a window function is chosen, so that the width of the window is equal to the segment of the signal, in which its stationarity is valid. Thus, the one dimensional STFT can be defined as [4-6]:

$$STFT(x, w) = \int_{-\infty}^{\infty} f(t)g(t - \tau)e^{-j2\pi\tau\omega}d\tau \quad (1)$$

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