

Special Issue

Signal Processing and Time-Frequency Analysis

Message from the Guest Editor

Dear colleagues, Time-frequency analysis (TFA) is a set of signal processing methods, techniques, and algorithms based on two types of variables, i.e., time and frequency. It is an alternative to traditional approaches in which time or frequency is used independently. TFA is an approach that works well with non-stationary signals. The Nonstationarity of the signal means that there is a time-dependency of the signal frequency spectrum. In time-frequency algorithms, the variables of time and frequency are not mutually exclusive but present together. It is an important feature of the TFA that helps analyze non-stationary signals. One of the most frequently used methods of time-frequency analysis is a short-time Fourier transform. The idea behind this method is to apply the Fourier transform to a portion of the signal. Over recent years, the researcher proposed many other TFA methods, i.e., wavelet transform, Gabor transform, Wigner-Ville distribution, and Hilbert-Huang transform to name a few...

Guest Editor

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Message from the Editor-in-Chief

Our primary goal is to encourage scientists and engineers to publish their theoretical results and developed methods in as much detail as possible. There is no limit to the maximum length of papers. Whenever possible, authors are encouraged to provide relevant data and developed code so that the results can be reproduced. Our goal is to provide a platform for scientists and engineers to share new approaches to signal processing in various application domains.

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