



an Open Access Journal by MDPI

Fractional Fourier Transform and Its Applications in Signal Analysis

Guest Editors:

Dr. Yuan-Min Li

School of Mathematics and Statistics, Xidian University, Xi'an 710071, China

Prof. Dr. Deyun Wei

School of Mathematics and Statistics, Xidian University, Xi'an 710071, China

Deadline for manuscript submissions: **31 October 2024**

Message from the Guest Editors

Fractional Fourier transform is highly favored bv researchers in signal analysis such as signal separation, signal filtering, signal detection, and signal estimation. With the demand for big data and real-time signal processing, sparse fractional Fourier transform and expansions, as well as fast algorithms, have been developed and widely applied in radar signal processing, spectral sensing, image recognition and fusion, compressed sampling, and sparse representation. With the emergence of large-scale continuous and highdimensional signals, two-dimensional fractional Fourier transform and its extensions, as well as graph fractional Fourier transform, have been developed. This has also been widely applied in many fields such as twodimensional digital signal processing, image superresolution reconstruction, encryption image and watermarking, medical imaging, image compression, image classification, semi supervised learning, and so on.

This Special Issue aims to continue the research on the theory of fractional Fourier transform and related extended theories, discrete and sparse fast algorithms, and their related applications.



Specialsue