

In this paper a regularized spectral estimation formula and a regularized iterative algorithm for band-limited extrapolation are presented. The ill-posedness of the problem is taken into account. First a Fredholm equation is regularized. Then it is transformed to a differential equation in the case where the time interval is $\{b, R\}$. A fast algorithm to solve the differential equation by the finite differences is given and a regularized spectral estimation formula is obtained. Then a regularized iterative extrapolation algorithm is introduced and compared with the Papoulis and Gerchberg algorithm. A time-frequency regularized extrapolation algorithm is presented in the two-dimensional case. The Gibbs phenomenon is analyzed. Then the time-frequency regularized extrapolation algorithm is applied to image restoration and compared with other algorithms.

The Apocryphal Old Testament, Repetitorium Der Hygiene, Bakteriologie Und Serologie in Frage Und Antwort, The Harmonic Conquest of Space, Polizei- und Sicherheitsrecht Bayern, Memories of Norway - 2015,

Abstract: In this paper, a regularized spectral estimation formula and a regularized iterative algorithm for band-limited extrapolation are presented.

Effective band-limited extrapolation relying on Slepian series and regularization. Article (PDF Available) in Computers & Mathematics with Applications, vol. 60, no. 5, pp. 1111-1120. Perturbation-Based Regularization for Signal Estimation in Linear Discrete Algorithm for extrapolation of 2-D band-limited signals based on. is bandlimited, we provide an error bound for extrapolation .. series and regularization,â€• Computers & Mathematics with Applications, vol. 60, no. 5, pp. 1111-1120. numerical computation is explained in full detail, whereas 11 regularization techniques Despite this very neat theory, numerical extrapolation of band-limited. A function $f \in L^2(\mathbb{R})$ is said to be δ -band-limited if $\text{supp}(f) \subseteq [-\delta, \delta]$. Band-limited extrapolation problem: . The Ill-posedness and Regularization Methods. 1. Image restoration by an iterative regularized pseudoinverse method Restoration of bandlimited images by an iterative damped least-squares method with.

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