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smooth (analytic) functions for which polynomial interpolation diverges, particularly so near the boundaries of the interpolation interval. This behavior is called the Runge phenomenon, and is usually illustrated by means of the following example. Example 9. (Runge phenomenon) Let $f(x)$ for $x \in [-5, 5]$. Interpolate it at equispaced points x_j

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The classical sampling problem is to reconstruct entire functions with given spectrum $\Lambda(S)$ from their values on a discrete set $\Lambda(L)$. From the geometric point of view, the possibility of such reconstruction is equivalent to determining for which sets $\Lambda(L)$ the exponential system with frequencies in $\Lambda(L)$ forms a frame in the space $L^2(S)$.

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[S2] K. Seip, Interpolation and Sampling in Spaces of Analytic Functions, University Lecture Series 33, American Mathematical Society, Providence, RI, 2004. MATH Google Scholar [Sch] A. Schuster, Interpolation by Bloch functions, Illinois J. Math. 43

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(1999), ...

We have thus far introduced the 2-norm, the infinity norm and the inner product for spaces of finite-dimensional vectors. It is worth mentioning that similar definitions hold as well for infinite-dimensional spaces, i.e., spaces of functions. For example, suppose $f(x)$ is a function continuous on the closed interval $[a,b]$, denoted $f \in C[a, b]$...

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interpolation, Carleson's interpolation theorem, an

Dr Timothy Wertz received his Bachelor's degree from Alma College, where he majored in Mathematics, Physics, and Foreign Service. He went on to obtain a Master's degree in Mathematics from San Francisco State University, for which his research focused on interpolation and sampling in spaces of analytic functions.

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– Interpolated grid points are often used as the data input to computer contouring algorithms • Once the grid of points has been determined, isolines (e.g., contours) can be threaded between them

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Harmonic Analysis, Applied and Numerical Harmonic Analysis (ANHA), Birkhäuser Verlag, November 2009, 249 pp., (with B. Forster.

Dedication To the memory of Ed Conway¹ who, along with his colleagues at Tulane University, provided a stable, adaptive, and inspirational starting point for my career. ¹Edward Daire Conway, III (1937–1985) was a student of Eberhard Friedrich Ferdinand Hopf at the University of Indiana.

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