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Remez: Key to Understanding Several Puzzles

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Graphs in Subquadratic Time Minimax Approximation And Remez

Algorithm

Minimax Approximation and Remez Algorithm Sherif A. Tawfik July

24, 2005 Minimax approximation seeks the polynomial of degree n that

approximates the given function in the given interval such that the

absolute maximum error is minimized. The error is defined here as

the difference between the function and the polynomial.

Minimax Approximation and Remez Algorithm

Minimax Approximations and the Remez Algorithm The directory

libs/math/minimax contains a command line driven program for the

generation of minimax approximations using the Remez algorithm.

Both polynomial and rational approximations are supported, although

the latter are tricky to converge: it is not uncommon for convergence

of rational forms to fail.

Minimax Approximations and the Remez Algorithm – 1.49.0

The second algorithm of Remez can be used to compute the minimax

approximation to a function, $f(x)$, by a linear combination of

functions, $CQ_i(X)$ which form a Chebyshev system The only

restriction on the function to be approximated is that it be continuous

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Remez algorithm. The theory on minimax approximation presented in

this thesis applies not only to minimax approximation by polynomials

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of some fixed degree, but is more general and considers approximation by generalized polynomials. A generalized polynomial is a function of the form $p(x) = \sum_{i=1}^n c_i g_i(x)$; where c_1, \dots, c_n are scalars and g_1, \dots, g_n

Finding best minimax approximations with the Remez algorithm this concludes Minimax approximation. However the task of constructing a minimax polynomial is not trivial. For a given function f , Remez algorithm is an efficient iterative algorithm that constructs a minimax polynomial. However as simple as they are, polynomials on their own don't capture all the classes of functions we want to approximate [10].

FUNCTION APPROXIMATION AND THE REMEZ ALGORITHM

A minimax approximation algorithm (or L_∞ approximation or uniform approximation) is a method to find an approximation of a mathematical function that minimizes maximum error. For example, given a function f defined on the interval $[a, b]$ and a degree bound n .

Minimax approximation algorithm—Wikipedia

The Remez algorithm is a methodology for locating the minimax rational approximation to a function. This short article gives a brief overview of the method, but it should not be regarded as a thorough theoretical treatment, for that you should consult your favorite textbook.

The Remez Method

minimax approximation of a real-valued periodic function in the space of trigonometric polynomials. The well known Remez algorithm is a nonlinear iterative procedure for finding minimax approximations. It is more than 80 years old and an account of its historical development can be found in [10], which focusses on the familiar case

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THE REMEZ ALGORITHM FOR TRIGONOMETRIC APPROXIMATION OF ...

The Remez algorithm or Remez exchange algorithm, published by Evgeny Yakovlevich Remez in 1934, is an iterative algorithm used to find simple approximations to functions, specifically, approximations by functions in a Chebyshev space that are the best in the uniform norm L^∞ sense. A typical example of a Chebyshev space is the subspace of Chebyshev polynomials of order n in the space of real continuous functions on an interval, C . The polynomial of best approximation within a given subspace ...

Remez algorithm—Wikipedia

THE REMEZ ALGORITHM This section describes how to design linear-phase FIR filters based on the Chebyshev (or minimax) error criterion. The minimization of the Chebyshev norm is useful because it permits the user to explicitly specify band-edges and relative error sizes in each band. We will see that linear-phase FIR filters that minimize a Chebyshev error-

THE REMEZ ALGORITHM

In this paper, we propose new optimal algorithms that approximate the sign function in the homomorphic encryption by using composite polynomials of the minimax approximate polynomials, which are constructed by the modified Remez algorithm.

Cryptology ePrint Archive: Report 2020/834 – Minimax ...

Nevertheless, implementations of the rational Remez algorithm are available in some mathematical software packages: the Mathematica `MiniMaxApproximation` function, the Maple `numapprox[minimax]` routine and the MATLAB `Chebfun remez` code. The Boost C++ libraries also contain an implementation.

RATIONAL MINIMAX APPROXIMATION VIA ADAPTIVE

In the approximation theory literature [11, 15, 40, 50, 63], two

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algorithms are usually considered for the numerical solution of (1.2), the rational Remez and differential correction (DC) algorithms.

~~RATIONAL MINIMAX APPROXIMATION VIA ADAPTIVE~~

In this paper, we propose new optimal algorithms that approximate the sign function in the homomorphic encryption by using composite polynomials of the minimax approximate polynomials, which are constructed by the modified Remez algorithm.

~~Minimax Approximation of Sign Function by Composite ...~~

Remez.jl This is an implementation of the Remez algorithm for computing minimax polynomial approximations to functions. It is largely based on code by ARM, but updated for newer Julia versions and built into a package. The main function is `ratfn_minimax`, see help for more details.

~~GitHub — simonbyrne/Remez.jl: Remez algorithm for ...~~

Barycentric-Remez algorithms for best polynomial approximation in the chebfun system Ricardo Pachón and Lloyd N. Trefethen Variants of the Remez algorithm for best polynomial approximation are presented based on two key features: the use of the barycentric interpolation formula to represent the trial polynomials, and the setting of the whole com-

~~Barycentric-Remez algorithms for best polynomial ...~~

The polynomial of best approximation of a given degree is defined to be the one that minimizes the maximum absolute difference between the polynomial and the function. Procedure. The Remez algorithm starts with a set of $n + 2$ sample points X in the approximation interval, usually the Chebyshev nodes linearly mapped to the interval.

Remez algorithm

Remez algorithm seeks the minimax polynomial that approximates a given function in a given interval. The package includes four M-files

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and one PDF-file. The first M-file is called findzero.m, it computes the root of a given function using the method of chords.

~~Remez Algorithm — File Exchange — MATLAB Central~~

This idea led to the Chebfun aaa algorithm a few months ago [2], and now it has further led to an improvement in our capabilities for rational best approximation on an interval. The old remez code has been replaced by a new and much more powerful minimax command [1].

Copyright code : f16e909d32c7e91b275b571a3f976018