

## N Widths In Approximation Theory

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N-Widths in Approximation Theory. Berlin, Heidelberg ; Springer Berlin Heidelberg, 1985. Ergebnisse der Mathematik und ihrer Grenzgebiete, A Series of Modern Surveys in Mathematics, 7. My original introduction to this subject was through conversations, and ultimate ly joint work with C.A. Micchelli.

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A practically useful concept that emerges from the theory of n-widths is the sup-inf. Sup- inf's quantify the error induced by a particular discretization in approximating a given class of functions. In the context of Hilbert spaces, sup-inf's can be directly computed by way of the solution of a variational eigenproblem.

**n-widths, sup-inf's, and optimality ratios for the k ...**  
The Bernstein n-width of Y in Z is  $\beta_n(Y, Z) = \sup \{ \lambda : \lambda Z_{n+1} \sup \subset Y \}$  where the supremum is taken over all subspaces Z\_{n+1} of Z of dimension at least n+1 and Z\_{n+1}^{\perp} denotes the unit ball in Z\_{n+1}. The continuous nonlinear n-widths are sandwiched by  $(21) \beta_n(Y, Z) \leq d_n(Y, Z) \leq C_n(Y, Z)$ , cf. . We can now take care of the proof.

**Metric entropy, n-widths, and sampling of functions on ...**

In the mathematical theory of artificial neural networks, universal approximation theorems are results that establish the density of an algorithmically generated class of functions within a given function space of interest. Typically, these results concern the approximation capabilities of the feedforward architecture on the space of continuous functions between two Euclidean spaces, and the ...

**Universal approximation theorem - Wikipedia**  
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**Homepage for Ronald DeVore**  
The main contents of approximation theory concerns the approximation of functions. Its foundations are laid by the work of P.L. Chebyshev (1854–1859) on best uniform approximation of functions by polynomials and by K. Weierstrass, who in 1885 established that in principle it is possible to approximate a continuous function on a finite ...

**Approximation theory - Encyclopedia of Mathematics**  
The papers in this book, first presented at a 1986 AMS Short Course, give a brief introduction to approximation theory and some of its current areas of active research, both theoretical and applied. The first lecture describes and illustrates the basic concerns of the field.

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The  $\mathfrak{N} \mathfrak{s}$ -widths according to Aleksandrov and Urysohn, respectively, can be used to give characterizations of covering dimension (see Dimension): If  $X \mathfrak{s}$  is a compact subspace of some Euclidean space  $\mathfrak{R}^n$ , then  $\mathfrak{m}(\dim) X \leq n$  if and only if  $\mathfrak{a}_n(X) = 0$ , i.e. if and only if there are arbitrarily small mappings from  $X \mathfrak{s}$  into  $\mathfrak{N} \mathfrak{s}$ -dimensional polyhedra. Likewise, if  $X \mathfrak{s}$  is compact metric, then  $\mathfrak{m}(\dim) X \leq n$  if and only if  $\mathfrak{u}_n(X) \dots$

**Width - Encyclopedia of Mathematics**  
N-widths in Approximation Theory, Springer-Verlag, New York, 1980. Although the book is very technical, the first 8 pages contain an excellent introduction to the subject.

**Approximation Error and Approximation Theory**  
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