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Measure Theory and Integration

## **Routledge & CRC Press Series: Chapman & Hall/CRC Pure and ...**

In this paper, four fundamental theorems for continuously differentiable mappings (the multiplier rule for equality constraints of Carathéodory, the inverse mapping theorem, the implicit mapping theorem, and the general multiplier rule for inequality and equality constraints of Mangasarian and Fromovitz) are shown to have natural extensions valid when the mappings are only Lipschitz continuous.

## **Analysis and optimization of Lipschitz continuous mappings ...**

Lipschitz self mappings of metric spaces appear in many branches of mathematics. In this paper we introduce a modification of the Lipschitz condition which takes into account not only the mapping ...

## **(PDF) Mean Lipschitzian mappings -**

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## ResearchGate

A Lipschitz map  $f : M \rightarrow N$  is called a Lipschitz embedding if it is a Lipschitz immersion and a homeomorphism from  $M$  to  $f(M)$  with the relative topology as a subset of  $N$ , whence  $f(M)$  is a Lipschitz submanifold of  $N$ . We denote by  $\text{EmbLIP}(M, N)$  the set of all Lipschitz embeddings from  $M$  to  $N$ . For  $u \in C^1(\mathbb{R}^m, \mathbb{R}^m)$  such that  $\|u^{-1}\| < \infty$  ...

## A topological property of Lipschitz mappings - ScienceDirect

To our best knowledge, this is the first algorithmic treatment of Lipschitz mappings of graphs. Furthermore, our problem of extending partial mappings is connected to the problem of *list homomorphism* and yields a better runtime complexity for a specific family of its instances.

## [1801.05496] Algorithmic aspects of Lipschitz mappings ...

Lipschitz and co-Lipschitz constants depending on a constant of

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quasiconformal-ity. Since the composition of a harmonic mapping and of a conformal mapping is itself harmonic, using Kellogg's theorem (Proposition 3.3), these theorems have a generalization to the class of mappings from arbitrary Jordan domain with  $C^1$  boundary to the unit disk.

## LIPSCHITZ SPACES AND HARMONIC MAPPINGS

Lipschitzian mappings with  $k = 1$  are called nonexpansive. If  $k < 1$ ,  $T$  is called a contraction. For any two Lipschitzian mappings  $T, S: M \rightarrow M$ , we have the following evaluation:  $k(T \circ S) \leq k(T)k(S)$ . This condition regulates the growth of the Lipschitz constants of iterates of a mapping  $T$  as we can see:  $k(T^m + n) \leq k(T)^m k(T)^n \dots$

## Lipschitz constants for iterates of mean Lipschitzian mappings

In this paper we characterise, in terms of the upper Dini derivative, the Clarke subdifferential mapping being a minimal



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weak\* cusco, and we show that on any Banach space the Clarke subdifferential mapping of a pseudo-regular or semi-smooth locally Lipschitz function is always a minimal weak\* cusco.

## **A characterisation of minimal subdifferential mappings of ...**

For a differentiable Lipschitz map  $f : U \rightarrow \mathbb{R}^m$  the inequality  $\| \cdot \|_\infty, \leq$  holds for the best Lipschitz constant of  $f$ , and it turns out to be an equality if the domain  $U$  is convex. Suppose that  $\{ f_n \}$  is a sequence of Lipschitz continuous mappings between two metric spaces, and that all  $f_n$  have Lipschitz constant bounded by some  $K$ .

## **Lipschitz continuity - Wikipedia**

Pages in category "Lipschitz maps" The following 9 pages are in this category, out of 9 total. This list may not reflect recent changes ().

## **Category:Lipschitz maps - Wikipedia** GENERATING CONTINUOUS MAPPINGS

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WITH LIPSCHITZ MAPPINGS J. CICHON, J. D. MITCHELL, AND M. MORAYNE´

Abstract. If  $X$  is a metric space, then  $C X$  and  $L X$  denote the semigroups of continuous and Lipschitz mappings, respectively, from  $X$  to itself. The relative rank of  $C X$  modulo  $L X$  is the least cardinality of any set  $U \setminus L X$  where  $U$  generates  $C X$ .

## **GENERATING CONTINUOUS MAPPINGS WITH LIPSCHITZ MAPPINGS**

Given two functions  $f, g: \{0,1\}^n \rightarrow \{0,1\}$ , a mapping  $\psi: \{0,1\}^n \rightarrow \{0,1\}^n$  is said to be a mapping from  $f$  to  $g$  if it is a bijection and  $f(z) = g(\psi(z))$  for every  $z \in \{0,1\}^n$ . In this paper we study Lipschitz mappings between Boolean functions. Our first result gives a construction of a  $C$ -Lipschitz mapping from the Majority function to the Dictator function for some universal constant  $C$ .

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