
On extreme points and representer theorems for the Lipschitz unit ball on finite metric spaces

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Abstract. In this note, we provide a characterization for the set of extreme points of the Lipschitz unit ball in a specific vectorial setting. While the analysis of the case of real-valued functions is covered extensively in the literature, no information about the vectorial case has been provided up to date. Here, we aim at partially filling this gap by considering functions mapping from a finite metric space to a strictly convex Banach space that satisfy the Lipschitz condition. As a consequence, we present a representer theorem for such functions. In this setting, the number of extreme points needed to express any point inside the ball is independent of the dimension, improving the classical result from Carathéodory.

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1. Introduction

Let $(\mathcal{X}, d)$ be a metric space, $(\mathcal{Y}, \|\cdot\|)$ a non-trivial, strictly convex real Banach space and consider the Banach space of Lipschitz functions [24] from $\mathcal{X}$ to $\mathcal{Y}$ that vanish at the distinct point $x_0 \in \mathcal{X}$. Let $L \geq 0$. We define the set

$$\text{Lip}_0^L = \{f : \mathcal{X} \rightarrow \mathcal{Y} \mid f(x_0) = 0 \text{ and } \|f(x) - f(y)\| \leq Ld(x, y) \text{ for all } x, y \in \mathcal{X}\}.$$

In this paper, we want to study certain structural properties of the special case Lip_0^1 (since all of the other cases can be treated analogously). In particular, we are interested in characterizing the set of its extreme points. The set of extreme points of the space Lip_0^1 above mentioned has been widely studied in the past decades for real-valued functions $f : \mathcal{X} \rightarrow \mathbb{R}$ (see [10, 12, 16–18, 21]), and more recently in [1], but no information about the set $\text{ext}(\text{Lip}_0^1)$ has been provided in the case of $\mathcal{Y} \neq \mathbb{R}$. In this paper, we show that the latter space can be characterized when considering a finite metric space $\mathcal{X} = \{x_0, \dots, x_n\}$, being $x_0, \dots, x_n$, $n \geq 1$, distinct points.

Model Theory And Linear Extreme Points In The Numerical Radius Unit Ball

Wancheng Sheng, Tong Zhang



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Differential Equations Methods for the Monge-Kantorovich Mass Transfer Problem Lawrence C. Evans, Wilfrid Gangbo, 1999 In this volume the authors demonstrate under some assumptions on f, f^* that a solution to the classical Monge Kantorovich problem of optimally rearranging the measure $\mu_f dx$ onto $\mu_{f^*} dy$ can be constructed by studying the p Laplacian equation $\operatorname{div}(\nabla u_p) = p^{-1} \nabla u_p \cdot \nabla f$ in the limit as $p \rightarrow \infty$ The idea is to show $u_p \rightarrow u$ where u satisfies $|\nabla u| \leq 1$ and $\operatorname{div}(\nabla u) = f^* - f$ for some density $g \geq 0$ and then to build a flow by solving a nonautonomous ODE involving ∇u and f *A Continuum Limit of the Toda Lattice* Percy Deift, Kenneth T-R McLaughlin, 1998 In this book the authors describe a continuum limit of the Toda ODE system obtained by taking as initial data for the finite lattice successively finer discretizations of two smooth functions Using the integrability of the finite Toda lattice the authors adapt the method introduced by Lax and Levermore for the study of the small dispersion limit of the Korteweg de Vries equations to the case of the Toda lattice A general class of initial data is considered which permits in particular the formation of shocks A feature of the analysis in this book is an extensive use of techniques from the theory of Riemann Hilbert problems

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