In The Name Of God

You'r title

J.Vahidi

Iran University of Science and Technology

Jvahidi@iust.ac.ir

27 August 2015

Table of contents

Introduction

Metric Space

References

1 Introduction

2 Metric Space

3 References

Introduction

Metric space

Definition

Definition

(1) for all x

(2)

(3)

(4)

(5)

The function U is called a universal metric of dimension n, or more specifically a U_n-metric on X, and the pair (X, U) is called a U_n-metric space.

Metric Space

Example

Let

$$x < y \tag{1}$$

Proposition

Let (X, U) be
(i) If $U < r$, then $x \in B$;
(ii) If $y \in B$, then there exists, $x < y$.

Metric Space

Fixed point theorems [2].

Theorem

then the map T has a U_n-approximate fixed point.

Metric Space

Theorem

Let

$$D$$

where

Topology Spase

Topology Space is
The conventional [3]

Topology Spase

Here we propose a

a Choose integer k,

b Assume k number of initial seed points.

c Randomly assign .

d abc.

(5) Let .

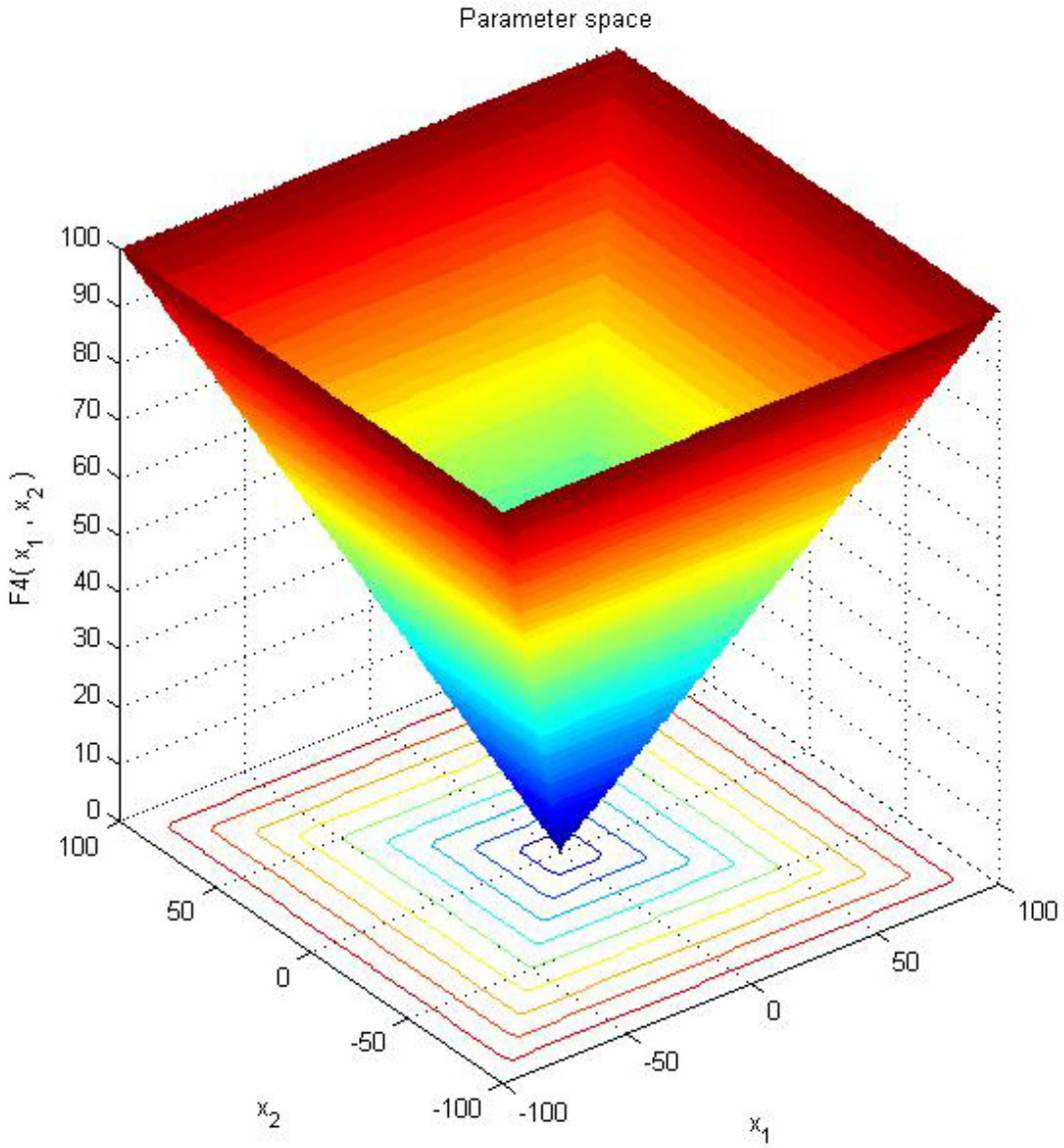
(7) Repeat steps .

(8) Repeat steps

Experimental results

A generalized
For case

Experimental results



References

[1] S. Gahler, *2 metriche raume und ihre topologische struktur*, , Math. Nachr. 26, (1963), 115–148.

[2] B. C. Dhage, *Generalized metric spaces and topological structure I, Annalele Stiintifice ale Universitatii Al.I. Cuza, 46, (2000), pp. 3–24.*

[3] Kim C. Border,Fixed point theorems with applications to economics and game theory, Cambridge University Press (1985).

[4] Jain, A. and Dubes, R. Algorithms for Clustering Data. Englewood Cliffs, NJ: Prentice–Hall, (1988).