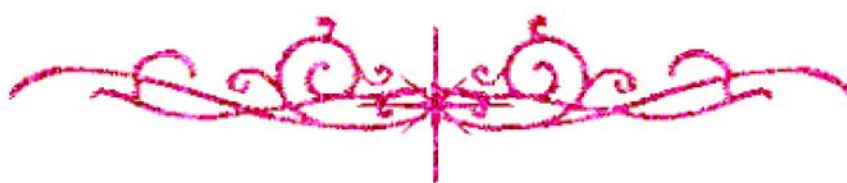


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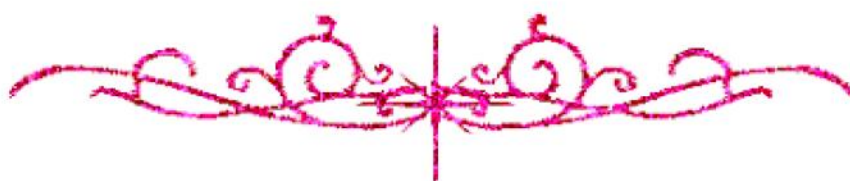
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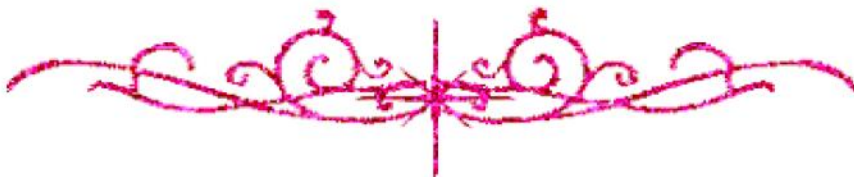
قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



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بعض الوثائق الأصلية تالفة



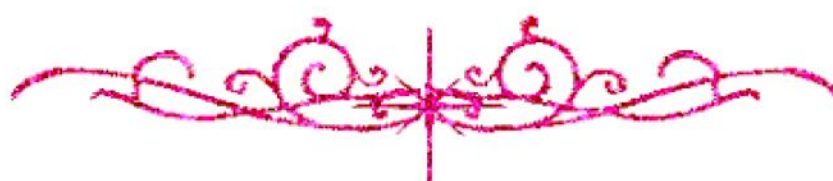
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**بالرسالة صفحات
لم ترد بالأصل**





B16689

TOPICS ON FUZZY TOPOLOGICAL ORDERED SPACES

THESIS

Submitted to Faculty of Science (Qena)
Assiut University

For the Degree of
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(Pure Mathematics)

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1994



***DEDICATE
TO MY PARENTS
AND MY FAMILY***

ACKNOWLEDGMENTS

CONTENTS

Contents

Abstract

Preface i

CHAPTER 0 Preliminaries. 1

0.1 Fuzzy sets on ordered sets 1

0.2 Fuzzy topology and fuzzy topological ordered spaces 4

0.3 Fuzzy real numbers 7

0.4 Fuzzy neighborhood spaces 9

0.5 Fuzzy uniformities and fuzzy proximities 13

0.6 Fuzzy syntopogenous spaces 17

CHAPTER I Fuzzy Topological Ordered Vector Spaces. 20

1.1 Introduction 20

1.2 Fuzzy sets in ordered vector spaces 22

1.3 Fuzzy topological ordered vector spaces 30

1.4 Quotient ordered vector spaces 34

1.5 Locally Co-convex vector spaces 38

1.6 Product of fuzzy topological ordered vector spaces 40

CHAPTER II Fuzzy Neighborhood Ordered Spaces 44

2.1 Prefilters on ordered sets 44

2.2 Pairwise fuzzy neighborhood systems and bases	47
2.3 Continuity and order-preserving	49
2.4 Product fuzzy neighborhood ordered spaces	51
2.5 Separation axioms in fuzzy neighborhood ordered spaces	52
CHAPTER III Fuzzy Uniform Ordered Spaces	57
3.1 Fuzzy quasi-uniform spaces	57
3.2 Fuzzy uniform ordered spaces	65
3.3 Uniformly order-mapping	68
CHAPTER IV Fuzzy Syntopogenous Ordered Spaces	71
4.1 Fuzzy syntopogenous spaces: Continuity and separation axioms	71
4.2 Connections with fuzzy quasi-metrics	73
4.3 Connections with fuzzy quasi-proximities	77
4.4 Fuzzy syntopogenous preordered spaces	82
4.5 Fuzzy syntopogenous order-mappings	83
References	85
List of Published Papers	90
Arabic Summary	91

ABSTRACT

Abstract

The study of the topological ordered spaces was initiated by Nachbin in [Van Nostrand Inc. New York (1965)] In [J. Math. Anal. Appl. 84(1981),44-58] Katsaras combined the concepts of an order and a fuzzy topology. In [El-Saady,K. M.Sc. Thesis, Assiut University 1990] the author extended Katsaras's works on the above relationship.

In this thesis we are interested in introducing the idea of order in the area of fuzzy structures such as fuzzy topological vector spaces, fuzzy neighborhood spaces, fuzzy uniform spaces, fuzzy proximity spaces and fuzzy syntopogenous spaces. Also, we generalize many results which in these concepts came true. Thus Chapters I, II and III contain, respectively, the resulting concepts of the fuzzy topological ordered vector spaces, fuzzy neighborhood ordered spaces and fuzzy uniform ordered spaces. Finally in Chapter IV, the concepts of both fuzzy proximity ordered spaces and fuzzy syntopogenous ordered spaces are introduced and some of their properties are studied.

PREFACE