

Workshop on Applications of Topology in
Mathematics and Computer Science

ABSTRACTS

Hacettepe University

Ankara, Turkey

September 7 - 8, 2015

Organisers

Filiz Yıldız - Chair

Hacettepe University, Turkey

Hacer İlhan

Hacettepe University, Turkey

Selma Özçağ

Hacettepe University, Turkey

Acknowledgment

This workshop is supported by

Hacettepe University

Scientific Research Projects Coordination Unit.

Demet Binbaşıođlu Coupled fixed point and coupled coincidence point theorems for nonlinear contractions and compatible mappings in ordered uniform spaces	5
Erdal Karapınar A fixed point theory researcher's APOLOGY	6
Farrukh Mukhamedov p -adic difference equations and its applications	7
Filiz Yıldız Generalizations of convexity structures to quasi-metric setting	8
Hans - Peter A. Künzi The q -hyperconvex hull of a T_0 -quasi-metric space	9
İshak Altun Classification of completeness of quasi metric space and some fixed point results	10
Josef Slapal Convenient pretopologies for the digital plane	12
Lawrence M. Brown Hyperspaces of ditopological texture spaces	13
Ljubisa D. R. Kocinac Some results on topological vector spaces	14
Mehmet Baran Closure operators in semiuniform convergence spaces	15
Nazife Erkuşun Özcan On quasi compact Markov nets	16
Osman Mucuk Normality and quotient in crossed modules and some related categories	17
Selma Özçağ Some results on selection properties of texture structures	18
Sevda Sađırođlu Convexity structure in the realm of approach spaces (Applications in Functional Analysis)	19
Şenol Dost On textural approximation spaces	20

***p*-adic difference equations and its applications**

Farrukh Mukhamedov

International Islamic University

farrukh_m@iiu.edu.my

Abstract

In the present talk we study stability of recurrence equations (which in particular case contain dynamics of rational functions) generated by contractive functions defined on p -adic field.

It will be also discussed reverse recurrence equations which have application in the study of p -adic Gibbs measures. Note that our results also provide the existence of unique solutions of nonlinear functional equations as well.