

# 13th Algebraic Hyperstructures and its Applications Conference

July 24-27, 2017 Yildiz Technical University, Istanbul Turkey



## Conference Program Overview

Time Slot	Monday, 24 July
08:00-09:30	Registration
09:30-10:00	Opening Ceremony
10:00-10:45	Keynote Speaker: Bijan Davvaz
10:45-11:00	Coffee and Tea Break
11:00-12:20	Sessions 1
12:20-14:00	Lunch
14:00-16:00	Sessions 2
16:00-16:20	Coffee and Tea Break
16:20-18:00	Sessions 3

Time Slot	Tuesday, 25 July
09:00-09:45	Keynote Speaker: Thomas Vougiouklis
09:45-10:00	Coffee and Tea Break
10:00-12:00	Sessions 4
12:00-14:00	Lunch
14:00-16:00	Sessions 5
16:00-16:20	Coffee and Tea Break
16:20-18:00	Sessions 6
18:00-21:00	Gala Dinner (Yıldız-Hisar Restaurant)

Time Slot	Wednesday, 26 July
09:00-09:45	Keynote Speaker: Reza Ameri
09:45-10:00	Coffee and Tea Break
10:00-12:00	Sessions 7
12:00-14:00	Lunch
14:00-16:00	Sessions 8
16:00-16:20	Coffee and Tea Break
16:20-18:00	Sessions 9
18:00-18:30	Closing Ceremony

Time Slot	Thursday, 27 July
09:00-18:00	Excursion, Bosphorus tour with lunch

## HALL A

Time Slot

Monday, 24 July

09:30-10:00 **Opening Ceremony**

10:00-10:45 **Keynote Speaker: Bijan Davvaz, "Some Applications of Algebraic Hyperstructures"**

10:45-11:00 **Coffee and Tea Break**

### Sessions 1 Chair: Bijan Davvaz

11:00-11:20 **Mohammad Mehdi Zahedi**

Weak Closure operations on ideals of a BCK-algebra

11:20-11:40 **Lumniye Shehu**

Extensions of Polygroups by Polygroups via Factor Polygroups

11:40-12:00 **Murat ALP**

On crossed polysquares and fundamental relations

12:00-12:20 **Michal Novák**

Recent advances in EL-hyperstructures

12:20-14:00 **Lunch**

### Sessions 2 Chair: Michal Novák

14:00-14:20 **Sinem TARSUSLU**

HH\*- Intuitionistic Heyting Valued  $\Omega$ -Algebra

14:20-14:40 **Sinem TARSUSLU**

Algebraic Approach to Multiplicative Set

14:40-15:00 **Najmeh Jafarzadeh**

On the relation between categories of  $(m, n)$ -ary hypermodules and  $(m, n)$ -ary modules

15:00-15:20 **Yıldırım Çelik**

Soft Bi-Ideals of Soft LA-Semigroups

15:20-15:40 **Jan Chvalina**

Sequences of groups and hypergroups of linear ordinary differential operators

15:40-16:00 **Ümit Deniz**

On Different Approach of Fuzzy Ring Homomorphisms

16:00-16:20 **Coffee and Tea Break**

### Sessions 3 Chair: Mohammad Mehdi Zahedi

16:20-16:40 **Mahmood Bakhshi**

L-hyperstructures

16:40-17:00 **Masoumeh Golmohamadian**

New connections between hyperstructures and Graph Theory

17:00-17:20 **Akbar Paad**

Ideals in HvMV-algebras

17:20-17:40 **Hashem Bordbar**

Overview on the Height of a Hyperideal in Krasner Hyperrings

17:40-18:00 **Hashem Bordbar**

Theory of Double-framed soft set theory on Hyper BCK-algebra

## HALL A

Time Slot

Tuesday, 25 July

09:00-09:45 **Keynote Speaker: Thomas Vougiouklis, "The Hv-matrix Representations"**

09:45-10:00 **Coffee and Tea Break**

### Sessions 4 Chair: Thomas Vougiouklis

10:00-10:20 **Ioanna Iliou**

On P-Hv-hopes and P-Hv-structures on the plane

10:20-10:40 **Banu Pazar Varol**

On Neutrosophic Linear Spaces

10:40-11:00 **Nesibe Kesicioğlu**

The relationships between the orders induced by implications and uninorms

11:00-11:20 **Nesibe Kesicioğlu**

A survey on order-equivalent uninorms

11:20-11:40 **Olga Cerbu**

The reflector functor and lattice  $L(R)$

11:40-12:00 **Deniz Sönmez**

A note on 2-absorbing  $\delta$ -primary fuzzy ideals of commutative rings

12:00-14:00 Lunch

### Sessions 5 Chair: Rajab Ali Borzooei

14:00-14:20 **Rajab Ali Borzooei**

Relation Between Hyper EQ-algebras and Some Other Hyper Structures

14:20-14:40 **Şerife YILMAZ**

Fuzzy hyperideals in ordered semihyperrings

14:40-15:00 **Şerife YILMAZ**

Fuzzy interior hyperideals in ordered semihyperrings

15:00-15:20 **ALI TAGHAVI**

HYPERHILBERT SPACES

15:20-15:40 **Dilek BAYRAK**

The Lattice Structure of Subhypergroups of a Hypergroup

15:40-16:00 **Tuğba Arkan**

Intuitionistic Fuzzy Weakly Prime Ideals

16:00-16:20 **Coffee and Tea Break**

### Sessions 6 Chair: Murat ALP

16:20-16:40 **Karim Ghadimi**

Some Results on Tensor Product of Krasner Hypervector Spaces

16:40-17:00 **Jafar Azami**

Fuzzy coprimary submodules and their representation

17:00-17:20 **Güzide Şenel**

Constructing Topological Hyperspace with Soft Sets

17:20-17:40 **Gülşah Yeşilkurt**

Fuzzy Weakly Prime  $\Gamma$ -ideals

17:40-18:00 **Sanem Yavuz**

Intuitionistic Fuzzy 2-absorbing Ideals of Commutative Rings

18:00-18:20 **Adem C. Cevikel**

Transition from Two-Person Zero-Sum Games to Cooperative Games with Fuzzy Payoffs

## HALL A

Time Slot

Wednesday, 26 July

09:00-09:45 **Keynote Speaker: Reza Ameri, "Some categorical aspects of algebraic hyperstructures"**

09:45-10:00 **Coffee and Tea Break**

### Sessions 7 Chair: Reza Ameri

10:00-10:20 **K. Abbasi**

On computation of fundamental group of a finite hypergroup

10:20-10:40 **Hosein Shojaei**

Various kinds of quotient of a canonical hypergroup

10:40-11:00 **Didem SÜRGEVİL UZAY**

On multipliers of hyper BCC-algebras

11:00-11:20 **Şule AYAR ÖZBAL**

Derivations on hyperlattices

11:20-11:40 **Naser Zamani**

On fuzzy  $\phi$ -prime ideals

11:40-12:00 **Thawhat Changphas**

On pure hyperideals in ordered semihypergroups

12:00-14:00 Lunch

### Sessions 8 Chair: Bayram Ali Ersoy

14:00-14:20 **Afagh Rezazadeh**

Relation Between Hyper K-algebras and Superlattice (Hypersemilattice)

14:20-14:40 **Tahere Nozari**

VAGUE SOFT HYPERMODULES

14:40-15:00 **Zahra Soltani**

An introduction to Zero-Divisor Graph of a Commutative Multiplicative Hyperring

15:00-15:20 **Niovi Kehayopulu**

Some ordered hypersemigroups which enter their properties into their  $\sigma$ -classes

15:20-15:40 **Serkan Onar**

Study of  $\Gamma$ -hyperrings by fuzzy hyperideals with respect to a t-norm

15:40-16:00 **Kostaq Hila**

On an algebra of fuzzy m-ary semihypergroups

16:00-16:20 **Coffee and Tea Break**

### Sessions 9 Chair: Bayram Ali Ersoy

16:20-16:40 **M. Asghari-Larimib**

Derived fuzzy hypergroup via fuzzy strongly regular equivalences

16:40-17:00 **Harizavi Habib**

On Annihilator in Pseudo BCI-algebras

17:00-17:20 **Hamidreza Varasteh**

Filter Theory on Hyper Hoop-algebras

17:20-17:40 **Krisanthi Naka**

The embedding of an ordered semihyperring in terms of fuzzy sets

17:40-18:00 **Closing Ceremony**

**HALL B**

Time Slot

**Monday, 24 July****Sessions 1 Chair: Mutlu Akar**

- 11:00-11:20 **Mutlu Akar**  
On the Vahlen Matrices
- 11:20-11:40 **Abderrahmane Bouchair**  
On the Baireness of function spaces
- 11:40-12:00 **Mahvish Ali**  
A linear algebra approach to hybrid polynomial sequences
- 12:00-12:20 **Farida Belhannache**  
Global asymptotic stability of a higher order difference equation

12:20-14:00 Lunch

**Sessions 2 Chair: Faik BABADAĞ**

- 14:00-14:20 **Aisha Jabeen**  
MULTIPLICATIVE LIE TRIPLE HIGHER DERIVATION ON UNITAL ALGEBRA
- 14:20-14:40 **Cennet ÇİMEN**  
On Pell Sedenions and Pell-Lucas Sedenions
- 14:40-15:00 **Saad Salman Ahmad**  
CONSTRUCTION OF NONASSOCIATIVE GRASSMANN ALGEBRA
- 15:00-15:20 **Ahmad Moussavi**  
Strongly clean elements of a non-semiprime ring
- 15:20-15:40 **Aissaoui Fatima**  
New Fractional Montgomery identities
- 15:40-16:00 **Faik BABADAĞ**  
Surfaces and Lie Groups with Generalized Tessarines

16:00-16:20 **Coffee and Tea Break****Sessions 3 Chair: Nemat Abazari**

- 16:20-16:40 **Kelaiaia Smail**  
Weak alpha favorability of  $C(X)$  with a set open topology
- 16:40-17:00 **Goubi Mouloud**  
Reciprocity formulae for generalized Vasyunin cotangent sum
- 17:00-17:20 **Ahmad Jafarian**  
New iterative method for solving linear Volterra fuzzy integral equations of the second
- 17:20-17:40 **Mohammad Moghimi**  
Functional Congruences for Drygas Equation
- 17:40-18:00 **Nemat Abazari**  
Curves on Lightlike Cone in Minkowski Space

**HALL B**

Time Slot

**Tuesday, 25 July****Sessions 4 Chair: Mehmet E. Koroğlu**

- 10:00-10:20 **Mehmet E. Koroğlu**  
A class of LCD codes from group rings
- 10:20-10:40 **Ghulam Mohammad**  
On skew cyclic codes over a finite ring
- 10:40-11:00 **Sümeyra UÇAR**  
New Blocking Cryptography Models
- 11:00-11:20 **Nihal Taş**  
A New Coding Theory with Generalized Pell  $(p,i)$  – Numbers
- 11:20-11:40 **Sezer Sorgun**  
Some Problems in Spectral Graph Theory
- 11:40-12:00 **Hakan Küçük**  
On trees which have exactly 4 non-zero Randić eigenvalues

**12:00-14:00 Lunch****Sessions 5 Chair: Nurten Bayrak Gürses**

- 14:00-14:20 **Nurten Bayrak Gürses**  
One-Parameter Planar Motions in Generalized Complex Number Plane CJ
- 14:20-14:40 **Murat Bekar**  
Isoclinic Rotations and Semi-Quaternions
- 14:40-15:00 **Murat Bekar**  
Legendre Curves and RM Frames in Minkowski 3-Space
- 15:00-15:20 **Esmâ DEMİR ÇETİN**  
A New Approach to Motions and Surfaces with Zero Curvatures in Lorentz 3-Space
- 15:20-15:40 **Hülya Aytimur**  
Chen-Ricci and Wintgen Inequalities for Statistical Submanifolds of Quasi-Constant Curvature
- 15:40-16:00 **Mücahit Akbıyık**  
One-Parameter Homothetic Motion on the Galilean Plane

**16:00-16:20 Coffee and Tea Break****Sessions 6 Chair: Murat Sarı**

- 16:20-16:40 **Meliha İpek Bulut**  
Comparison of encryption and decryption algorithms through various approaches
- 16:40-17:00 **Çağla Ramis**  
Surfaces with Constant Slope and Tubular Surfaces
- 17:00-17:20 **Ahmet İPEK**  
On The Hadamard And Kronecker Products Of Matrices In Max-Plus Algebra
- 17:20-17:40 **Ufuk Çelik**  
New Contributions to Fixed-Circle Results on S-Metric Spaces
- 17:40-18:00 **Hatice TOZAK**  
On The Parallel Ruled Surfaces With B-Darboux Frame

**HALL B**

Time Slot

**Wednesday, 26 July****Sessions 7 Chair: Murat Kirişci**

- 10:00-10:20 **Murat Kirişci**  
A ANFIS Perspective for the diagnosis of type II diabetes
- 10:20-10:40 **Erkan Bostanci**  
A fuzzy brute force matching method for binary image features
- 10:40-11:00 **KAWA RASUL**  
Hypertextual Discourse Analysis of University Websites
- 11:00-11:20 **Ahlem Gasri**  
Co-existence of four types of synchronization in 4-D hyperchaotic dynamical systems
- 11:20-11:40 **Farzana Khan**  
Numerical behaviour of MHD stagnation point flow of Williamson áuid model over a stretching sheet
- 11:40-12:00 **Djamel Sebbar**  
Effects the variation the electric field and the width of the barriers for Resonant Tunneling in Superlattices

12:00-14:00 Lunch

**Sessions 8 Chair: Elif Demir**

- 14:00-14:20 **Elif Demir**  
Transitive Operator Algebras and Hyperinvariant Subspaces
- 14:20-14:40 **Süleyman Demir**  
Reformulation of compressible fluid equations in terms of biquaternions
- 14:40-15:00 **Assia Frioui**  
Fractional boundary value problems on the half line
- 15:00-15:20 **Adetunji Adeniyan**  
Flow and heat transfer of a hydromagnetic couple stress-fluid on a stretching sheet with variable viscosity
- 15:20-15:40 **Erdal Gül**  
On The Trace Formula for a Differential Operator of Second Order with Unbounded Operator Coefficients
- 15:40-16:00 **Mustafa Bayram Gücen**  
Practical Stability Anlysis of Nonlinear Fuzzy Dynamic Systems of Unperturbed Systems with Initial Time Difference

16:00-16:20 **Coffee and Tea Break****Sessions 9 Chair: Sebahat Ebru Das**

- 16:20-16:40 **Sebahat Ebru Das**  
A Numerical Scheme for Solving Nonlinear Fractional Differential Equations in the Conformable-Derivative Sense
- 16:40-17:00 **Fatma Öztürk Çeliker**  
On invariant ideals on locally convex solid Riesz spaces
- 17:00-17:20 **Pınar Albayrak**  
On weakly compact-friendly operators
- 17:20-17:40 **Murat Turhan**  
Hirota type discretization of Clebsch equations
- 17:40-18:00 **Fatma BULUT**  
An h-deformation of the superspace  $R(1|2)$  via a contraction
- 18:00-18:15 **Mücahit Akbıyık**  
Euler-Savary's Formula On Dual Plane
- 18:15-18:30 **Filiz Kanbay**  
On a Fuzzy Application of the Particulate Matter Estimation
- 18:30-18:45 **Ayten Özkan**  
Mistakes and misconceptions regarding to natural numbers on secondary Mathematics Education