

**PREFACE**

We are very pleased to introduce the abstracts of the 5th International IFS and Contemporary Mathematics Conference (IFSCOM2018).

As previous conferences, the theme was the link between the Mathematics by many valued logics and its applications.

In this context, there is a need to discuss the relationships and interactions between many valued logics and contemporary mathematics.

Finally, in the previous conference, it made successful activities to communicate with scientists working in similar fields and relations between the different disciplines.

This conference has papers in different areas; multi-valued logic, geometry, algebra, applied mathematics, theory of fuzzy sets, intuitionistic fuzzy set theory, mathematical physics, mathematics applications, etc.

Thank you to the scientists offering the most significant contribution to this conference.

Thank you to Scientific Committee Members, Referee Committee Members, Local Committee Members, University Administrators, Mersin University Mathematic Department Scientists and Kahramanmaraş Sutcu Imam University Mathematic Department Scientists.

CHAIR

Assoc. Prof. GÖKHAN ÇUVALCIOĞLU

Asist. Prof. MEHMET ÇİTİL

Assoc. Prof. Khaldoun AL-ZOUBI

**INVITED SPEAKERS**

Oscar Castillo (MX)

Said Melliani (MA)

Khaldoun Al-Zoubi (JO)

**SCIENTIFIC COMMITTEE**

- Ali Çevik (TR)  
Ahmet Arıkan (TR)  
Arindam Garai (IN)  
Banu Pazar Varol (TR)  
Beyhan Yılmaz (TR)  
Calogero Vetro (IT)  
Çiğdem Aras (TR)  
Ekrem Kadioğlu (TR)  
Ekrem Savaş (TR)  
Emel Aşıcı (TR)  
Erdener Kaya (TR)  
Erol Yaşar (TR)  
Esfandiar Eslami (IR)  
Fahrettin Abdullayev (TR)  
Fatma Ayça Çetinkaya (TR)  
Hakan Efe (TR)  
Halis Aygün (TR)  
Hasan Es (TR)  
Henri Gwét (CM)  
Hüseyin Bilgiç (TR)  
Hüseyin Yıldırım (TR)  
Ilhan Dağadur (TR)  
İsmat Beg (PK)  
Janusz KACPRZYK (PL)  
Juan Martinez-Moreno (ES)  
Kenan Söğüt (TR)  
Krassimir T. Atanassov (TR)  
Mahmut Sağır (TR)  
Mohamed Djedour (DZ)  
Murat İbrahim Yazar (TR)  
Mustafa Saltı (TR)  
Nihat Akgüneş (TR)  
Nuran Güzel (TR)  
Oğuzhan Bahadır (TR)  
Oktay Aydoğdu (TR)  
Orhan Ercan (TR)  
Ömer Kişi (TR)  
Özlem Acar (TR)  
Patricia Melin (MX)  
Piotr Nowak (PL)  
Salim Rezvani (IR)  
Sotir Sotirov (BG)  
Şemsi Eken Meriç (TR)  
Şükran Konca (TR)  
Uğur Değer (TR)  
Vassia Atanassova (BG)  
Vildan Çetkin (TR)  
Yaşar Nacaroğlu (TR)  
Yusuf Yaylı (TR)

**REFEREE COMMITTEE**

Ahmet Arıkan (TR)

Cengiz Çınar (TR)

Ekrem Kadiođlu (TR)

Gökhan Çuvalcıođlu (TR)

Khaldoun Al-Zoubi (JO)

Hanlar Reşidođlu (TR)

Krassimir T. Atanasov (BG)

Oktay Aydođdu (TR)

Said Melliani (MA)

**LOCAL ORGANIZING COMMITTEE**

Sinem Tarsuslu  
Abdullah Akkurt  
Feride Tuđrul  
Seda Kılınç  
Sıddık Doğruluk  
Yalçın Mutluay  
Gizem Artun  
Maya Altınok  
Özge Çolakođlu Havare  
Arif Bal  
Burçin Dođan  
Mehmet Aydın  
Şeyda Sezgek  
Sibel Yasemin Gölbol  
Halil İbrahim Yoldaş  
Yelda Yorulmaz  
Fatih Kutlu  
Emine Demirbaş  
Seher Kaya

CONTENTS

PREFACE	i
INVITED SPEAKERS	ii
SCIENTIFIC COMMITTEE	iii
REFEREE COMMITTEE	iv
LOCAL ORGANIZING COMMITTEE	v
Spherical Product Surface with Harmonic Gauss Map in Galilean 3-Space $G_3$ , İ. Kişi and G. Öztürk	1
Misconceptions and Error Analysis of 10th Grade Students on Analytical Geometry A. Özkan and M. Özkan	8
A Ditopological Fuzzy Structural View of Hutton Spaces. Filiz Yıldız, and Lawrence M. Brown	12
Generalized Metric Spaces and Fixed Point Theorems İbrahim Karahan and İrfan Işık	.25
On Some Properties of Intuitionistic Fuzzy Equivalence Relations Gökhan Çuvalcıoğlu, Gizem Artun, and Arif Bal	32
Application of Implicit Relations to Fixed Point Theorems in Complete Soft Quasi Metric Space Nurcan Bilgili Güngör	39
Rough Operators On $L^X$ Defined By A Soft Set G. Şenel	49
Numerical Solution for the Fractional Order Linear Differential Eq. Using Hermite Collocation Method Ayşegül Kaplan and Mulla Veli Ablay	53
A Note on Soft Mappings in Soft Generalized Topological Spaces Taha Yasin Öztürk and Çiğdem Gündüz Aras	.61
On Filter-Type Soft Sets Mustafa Burç Kandemir	71
Binomial Transforms of The Morgan-Voyce Sequences Yasemin Taşyurdu	79
On The Sigma Index of Monogenic Semigroup Graphs Nihat Akgüneş and Yaşar Nacaroğlu	88

A Study on Bipolar Soft Topological Spaces Taha Yasin Öztürk and Çiğdem Gündüz Aras	93
Determinants and Permanents of Hessenberg Matrices with $(s,t)$ -Jacobsthal and $(s,t)$ -Jacobsthal Lucas Sequences Yasemin Taşyurdu	98
Generalization of Soft Sets in Fuzzy Settings G. Şenel	106
The Dynamics of The Scalar Particles in a Robertson-Walker Spacetime Via Teleparallel Theory U. Yeter, M. Saltı and K. Söğüt	.111
Existence of The Fixed Points of Self Mappings Defined in Product of Uniformly Convex Banach Space Nurcan Bilgili Güngör	115
Intuitionistic Fuzzy Modal Operators and Relationships with Intuitionistic Fuzzy $H_V$ -Ideals Gökhan Çuvalcıoğlu, Emine Demırbaş and Özge Burkan	125
Focal Surface of a Tubular Surface with Bishop Frame in $E^3$ . İlim Kişi, S. Büyükkitik and G. Öztürk	132
Success And Self-Efficacy In Number Sense Of The Middle School Students Saliha Hilal Yazar, Hasan Es and Nejlâ Gürefe	140
On Intuitionistic Fuzzy Hyperstructure with T-Norm Gökhan Çuvalcıoğlu	148
The Relationship Between the Categories of Ordered Sets, Topological Spaces, Metric Spaces And Approach Spaces Güzide Şenel	157
Papers, Publishing as abstract	162
Papers, sending Journal of Universal Mathematics	164
Papers, sending Springer Book	165