



GAZİ UNIVERSITY  
FACULTY OF SCIENCE  
DEPARTMENT OF MATHEMATICS

# INTERNATIONAL GEOMETRY SYMPOSIUM



*In Memory of  
Prof. Erdoğan  
ESİN*

# SYMPOSIUM PROGRAM

Online  
9 – 10 February 2023



*Symposium Website: [igsm-erdoganesin.gazi.edu.tr](http://igsm-erdoganesin.gazi.edu.tr)*

# INTERNATIONAL GEOMETRY SYMPOSIUM IN MEMORY OF PROF. ERDOGAN ESIN

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**9 FEBRUARY 2023**

**TIME PROGRAM DURATION**

09.30 - 09.33 AM	National Anthem and Tribute
09.33 - 09.37 AM	Prof. Aysel TURGUT VANLI, Gazi University (Chairperson of the Symposium Organizing Committee)
09.37 - 09.42 AM	Prof. Erdogan ESIN's life (Slide)
09.42 - 09.47 AM	Prof. A. Duran TÜRKOĞLU (Head of Department of Mathematics)
09.47 - 09.52 AM	Prof. Suat KIYAK (Dean of Faculty of Science)
09.52 - 10.05 AM	Prof. Musa YILDIZ (Gazi University Rector)
10.05 - 10.10 AM	Prof. Mustafa ÖZKAN, Gazi University
10.10 - 10.20 AM	Assoc. Prof. Hülya KAYA KADIOĞLU, Yıldız Technical University
<b>10.20 - 10.30 AM (Coffee Break)</b>	
10.30 - 11.20 AM Chairperson: Prof. Ljubica S. VELIMIROVIC	<b>Ricci Solitons and Certain Related Metrics on Almost Co-Kaehler Manifolds</b> Prof. Venkatesha VENKATESHA, Kuvempu University, India
<b>11.20 - 11.30 AM (Coffee Break)</b>	
11.30 AM - 12.20 PM Chairperson: Prof. Ljubica S. VELIMIROVIC	<b>On the Divergence of the Weyl Tensor of Homogeneous Four-Manifolds</b> Prof. Eduardo GARCIA-RIO, University of Santiago de Compostela, Spain
<b>12.20 - 01.30 PM (Lunch Break)</b>	
01.30 - 02.20 PM Chairperson: Prof. Eduardo GARCIA-RIO	<b>Characterizations of Riemannian manifolds with certain vector fields</b> Prof. Sudhakar Kumar CHAUBEY, Univ. of Tech. and Appl. Sci., Shinas, Oman
<b>02.20 - 02.30 PM (Coffee Break)</b>	
02.30 - 03.20 PM Chairperson: Prof. Sudhakar Kumar CHAUBEY	<b>On Some Generalized Einstein Metric Conditions</b> Prof. Ryszard DESZCZ, Wrocław Univ. of Environmental and Life Sciences, Poland Dr. Małgorzata GŁOGOWSKA, Wrocław Univ. of Environmental and Life Sciences, Poland
<b>03.20 - 03.30 PM (Coffee Break)</b>	
03.30 - 04.20 PM Chairperson: Prof. Sorin DRAGOMIR	<b>PMC Biconservative Surfaces in Complex Space Forms</b> Prof. Dorel FETCU, Asachi Technical University of Iasi, Romania
<b>04.20 - 04.30 PM (Coffee Break)</b>	
04.30 - 05.20 PM Chairperson: Prof. Bang-Yen CHEN	<b>Cauchy-Riemann Geometry: An Introduction to the Main Problems</b> Prof. Sorin DRAGOMIR, Università degli Studi della Basilicata, Italy
<b>05.20 - 05.30 PM (Coffee Break)</b>	

<b>Session 1</b>	Chairperson: Prof. Bang-Yen CHEN
<b>05.30 - 05.45 PM</b>	<b>Ricci Solitons with Conircular and Conformal Killing Potential Vector Fields in Complex Sasakian Manifolds</b> Prof. Aysel TURGUT VANLI, Gazi University, Türkiye
<b>05.45 - 06.00 PM</b>	<b>Semi-invariant <math>\xi^\perp</math>- Riemannian submersions admitting Ricci soliton</b> Assoc. Prof. İnan ÜNAL, Munzur University, Türkiye Assoc. Prof. Ramazan SARI, Amasya University, Türkiye
<b>06.00 - 06.15 PM</b>	<b>On Some Properties of Ricci Solitons</b> Yusuf DOĞRU, Air Training Comand, Türkiye
<b>06.15 - 06.25 PM (Coffee Break)</b>	
<b>06.25 – 07.15 PM</b> Chairperson: Prof. Turgut ÖNDER	<b>Geometric structures on the frame bundle of a differentiable manifold</b> Assoc. Prof. Mohammad Nazrul Islam Khan, Qassim University, Saudi Arabia
<b>07.15-07.25 PM (Coffee Break)</b>	
<b>07.25 – 07.40 PM</b> Chairperson: Prof. Aysel TURGUT VANLI	Caner ESİN (Prof. Erdoğan Esin's son) Kirkland, Washington, USA (Software Engineer)

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**10 FEBRUARY 2023**

TIME PROGRAM DURATION

<b>Session 2</b>	Chairperson: Prof. Venkatesha VENKATESHA
<b>08.45 – 09.00 AM</b>	<b>Deformation Classification of Quartic Surfaces with Simple Singularities</b> Asst. Prof. Çisem Güneş AKTAŞ, Abdullah Gül University, Türkiye
<b>09.00 - 09.15 AM</b>	<b>On the Classifications of Nilsoliton Derivations by Symbolic Computation</b> Assoc. Prof. Hülya KADIOĞLU, Yıldız Technical University, Türkiye
<b>09.15 - 09.30 AM</b>	<b>Geometric Modeling in Medicine</b> Ferhat TAŞ, İstanbul University, Türkiye
<b>09.30 - 09.45 AM</b>	<b>Quaternions on Apparent Movement of the Sun According to Venus</b> Deniz GÜÇLER, Ankara University, Türkiye
<b>09.45 - 09.55 AM (Coffee Break)</b>	
<b>Session 3</b>	Chairperson: Prof. Dorel FETCU
<b>09.55 - 10.10 AM</b>	<b>Biconservative PNMCV Surfaces in Minkowski Spaces</b> Asst. Prof. Rüya YEĞİN ŞEN, İstanbul Medeniyet University, Türkiye
<b>10.10 - 10.25 AM</b>	<b>Isotropic Transversal Lightlike Submersions</b> Esra KARATAŞ, Inonu University, Türkiye
<b>10.25 - 10.40 AM</b>	<b>Weakly Symmetric Kenmotsu Manifolds with a Non-Symmetric Non-metric Connection</b> Asst. Prof. Selahattin BEYENDİ, Inonu University, Türkiye

**10.40 - 10.50 AM (Coffee Break)**

Session 4

Chairperson: Prof. Cihan ÖZGÜR

10.50 - 11.05 AM

**Inextensible Flows of Framed Curve in 4-Dimensional Euclidean Space**  
Onur Talip DOSTUOĞLU, Osmaniye Korkut Ata University, Türkiye  
Asst. Prof. Hülya GÜN BOZOK, Osmaniye Korkut Ata University, Türkiye

11.05 - 11.20 AM

**A New hybrid family of conjugate gradient methods using weak Wolfe inexact line search**  
Amina HALLAL, Mohamed Cherif Messaadia University, Algeria

11.20 - 11.35 AM

**Existence solutions of a quasilinear wave problem with strong damping**  
Abir BOUNAAMA, 20 August 1955 University, Algeria

**11.35 - 11.45 AM (Coffee Break)**

Session 5

Chairperson: Prof. Siddika ÖZKALDI KARAKUŞ

11.45 AM - 12.00 PM

**Existence results for discrete fractional with three-point boundary value problems**  
Omar CHOUCHA, Université Kasdi Merbah Ouargla, Algeria

12.00 - 12.15 PM

**Uniqueness of Positive Solitions of a Fractional Integro-Differential Equation by Schauder Fixed Point Theorem**  
Chahra KECHAR, University of Souk Ahras, Algeria

12.15 - 12.30 PM

**Two Server Independent Queueing Model with Bulk Service**  
Asst. Prof. Shavej Ali Siddiqui, Khwaja Moinuddin Chishti Language University, India

**12.30 - 02.00 PM (Lunch Break)**

Session 6

Chairperson: Prof. Chris WOOD

02.00 - 02.15 PM

**On optimal inequalities involving  $\delta$ -Casorati curvature**  
Asst. Prof. Majid Ali CHOUDHARY, Maulana Azad National Urdu University, India

02.15 - 02.30 PM

**When a 1-form is a magnetic map**  
Bouazza KACIMI, University of Mascara, Algeria

02.30 - 02.45 PM

**Three Classification Theorems for Totally Umbilical Semi-Invariant Submanifolds of Locally Decomposable Metallic Riemannian Manifolds**  
Asst. Prof. Mustafa GÖK, Sivas Cumhuriyet University, Türkiye

02.45 - 03.00 PM

**Differential Geometry of Umbrella Matrices**  
Mert ÇARBOĞA, Ankara University, Türkiye  
Prof. Yusuf YAYLI, Ankara University, Türkiye

**03.00 - 03.10 PM (Coffee Break)**

03.10 - 04.00 PM

Chairperson: Prof. Adela MIHAL

**Higher Power Harmonic Maps and Sections**  
Prof. Chris WOOD, University of York, UK

**04.10 - 04.20 PM (Coffee Break)**

**04.20 - 05.10 PM**

Chairperson: Prof. Ryszard DESZCZ

**Surfaces Associated With Pascal And Catalan Triangles**

Prof. Adela MIHAI, Technical University of Civil Engineering Bucharest, Romania and Transilvania University of Brasov, **Romania**

**05.10 - 05.20 PM (Coffee Break)**

**05.20 - 06.10 PM**

Chairperson: Prof. Turgut ÖNDER

**Manifolds with Special Holonomy and Applications**

Prof. Sema SALUR, University of Rochester, **USA**

**06.10 - 06.15 PM (Coffee Break)**

**06.15 - 07.15 PM VALEDICTORY**

**06.15 - 06.25 PM**

The life of Prof. Leopold VERSTRAELEN's and Prof. Ryszard DESZCZ's PhD Student Associate Professor Şahnur YAPRAK (Slide)

**06.25 - 06.40 PM**

Prof. Ryszard DESZCZ

**06.40 - 06.45 PM**

Prof. Turgut ÖNDER

**06.45 - 06.55 PM**

Prof. Venkatesha VENKATESHA

**06.55 - 07.05 PM**

Assoc. Prof. İnan ÜNAL

**07.05 - 7.15 PM**

Prof. Aysel TURGUT VANLI



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