



Caucasian Mathematics Conference

AUGUST 22 - 24, 2017, VAN, TURKEY

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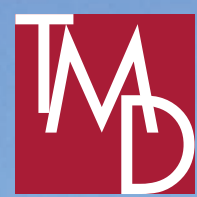
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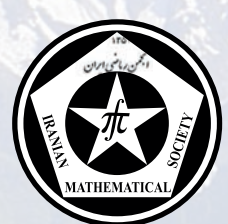
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**Caucasian Mathematics Conference
CMC II**

SCIENTIFIC PROGRAM



Book of Abstracts

Van, Turkey
August 22 - 24, 2017

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Room 103 Chair: Cemil BÜYÜKADALI

17:00-17:20 **Erhan PİŞKİN**

Energy decay and blow up of solutions for a nonlinear hyperbolic-type equations with nonlinear damping terms

17:20-17:40 **Erhan PİŞKİN, Turgay UYSAL**

Blow up of solutions for a system of nonlinear higher-order Kirchhoff-type equations

17:40-18:00 **Cemil TUNC**

On the stability, integrability and boundedness in Volterra integro-differential equations

Room 104 Chair: Şenay BAYDAŞ

17:00-17:20 **Mehmet Şerif ALDEMİR**

Reduced second Zagreb index of unicyclic graphs

17:20-17:40 **Süleyman EDİZ**

On the stratified domination number of generalized Petersen graphs $P(n, 1)$ and $P(n, 2)$

17:40-18:00 **Murat CANSAN, Süleyman EDİZ**

On the stratified domination number of Mycielskians of some graphs

Room 105 Chair: TURGUT HANOYMAK

17:00-17:20 **Nejat GÖRENTAŞ, Osman TUNÇ**

A note on the stability and boundedness of Lienard equation

17:20-17:40 **Hanni GARMINIA**

The integrality properties of the sunflower hypergraphs

17:40-18:00 **Ismail Hakkı DENİZLER**

A complete semi-local commutative Noetherian ring related to an Artinian module, and duality

Room 106 Chair: Ö. AYDOGMUS

17:00-17:20 **Sultan ERDUR, Cemil TUNC**

Non-local integrals and derivatives on Smith-Volterra-Cantor set

17:20-17:40 **Irem AKBULUT, Cemil TUNC**

On the stability of solutions of first order neutral differential equations by fixed point method

17:40-18:00 **Yener ALTUN, Cemil TUNC**

Asymptotic properties of solutions to systems of neutral type differential equations with periodic coefficients

Room 107 Chair: F. KARAKOC

17:00-17:20 **Melek GÖZEN**, Cemil TUNC

Improved criteria on exponential stability of neutral differential equations of first order

17:20-17:40 **Sizar Abid MOHAMMED, Cemil TUNC**

A remark on the qualitative criteria in retarded Volterra integro-differential equations

17:40-18:00 **Osman TUNC**

A remark on the stability and boundedness of solutions to non-linear differential systems of second order

Room 108 Chair: Z. KAYAR

17:00-17:20 **Erhan GÜLER, Ömer KİŞİ**

The second Laplace-Beltrami operator on rotational hypersurfaces in the Euclidean 4-Space

17:20-17:40 **Ömer KIŞI**, Erhan GÜLER

Uniform I-lacunary statistical convergence on time scales

17:40-18:00 **Mohammad Reza JABBARZADEH**

Moore-Penrose inverse of a conditional type operator

August 23, 2017 Wednesday									
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9:00-10:30				Van Breakfast					
11:30-12:30				Akdamar Island					
13:30-15:00				Lunch					
Chair	C. TUNC								
16:00-16:30	A. BULUT			Young Speaker					
16:30-17:00				Poster Presentations					
Chair	H. TOR	C. TEMEL	C. BÜYÜKADALI	Ş. BAYDAŞ	T. HANOYMAK	Ö. AYDOGMUS	F. KARAKOC	Z. KAYAR	
17:00-17:20	A. BAŞHAN	C. ÇATAL	E. PIŞKIN	Ş. AL-DEMİR	N. GÖRENTAŞ	S. ERDUR	M. GÖZEN	E. GÜLER	
17:20-17:40	N. ALSOY- AKGÜN	N. DEMIRKUŞ	T. UYSAL	S. EDİZ	H. GARMINIA	İ. AKBULUT	S. A. MO- HAMMAD	Ö. KİŞİ	
17:40-18:00	A. SARIAYDIN FİLİBELİOĞLU	O. SALDIR	C. TUNC	M. CAN- CAN	İ. HAKKI DENİZLER	Y. ALTUN	O. TUNC	M. JABBAR- ZADEH	

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The second Laplace-Beltrami operator on rotational hypersurfaces in the Euclidean 4-Space

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We consider rotational hypersurface in the four dimensional Euclidean space. We calculate the mean curvature and the Gaussian curvature, and some relations of the rotational hypersurface. Moreover, we define the second Laplace-Beltrami operator and apply it to the rotational hypersurface.

MSC 2000: 53A10, 53C45

Keywords: 4-space, the second Laplace-Beltrami operator, rotational hypersurface, Gaussian curvature, mean curvature,

Multi-sublinear operators generated by multilinear fractional integral operators and commutators on the product generalized local Morrey spaces

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The aim of this paper is to get the boundedness of certain multi-sublinear operators generated by multilinear fractional integral operators on the product generalized local Morrey spaces under generic size conditions which are satisfied by most of the operators in harmonic analysis. We also prove that the commutators of multilinear operators generated by local campanato functions and multilinear fractional integral operators are also bounded on the product generalized local Morrey spaces.

MSC 2010: 42B20, 42B25, 42B35

Keywords: Multi-sublinear operator, multilinear fractional integral operator, commutator, generalized local Morrey space, local Campanato space

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Certificate of Participation

We certify that **Erhan Güler** has participated and successfully presented a paper entitled
“**The second Laplace-Beltrami operator on rotational hypersurfaces in the Euclidean 4-Space**”
in Caucasian Mathematics Conference II (CMC II) held at Yüzüncü Yıl University, Van, Turkey.

Prof. Dr. Betül TANBAY



Prof. Dr. Cemil TUNÇ

