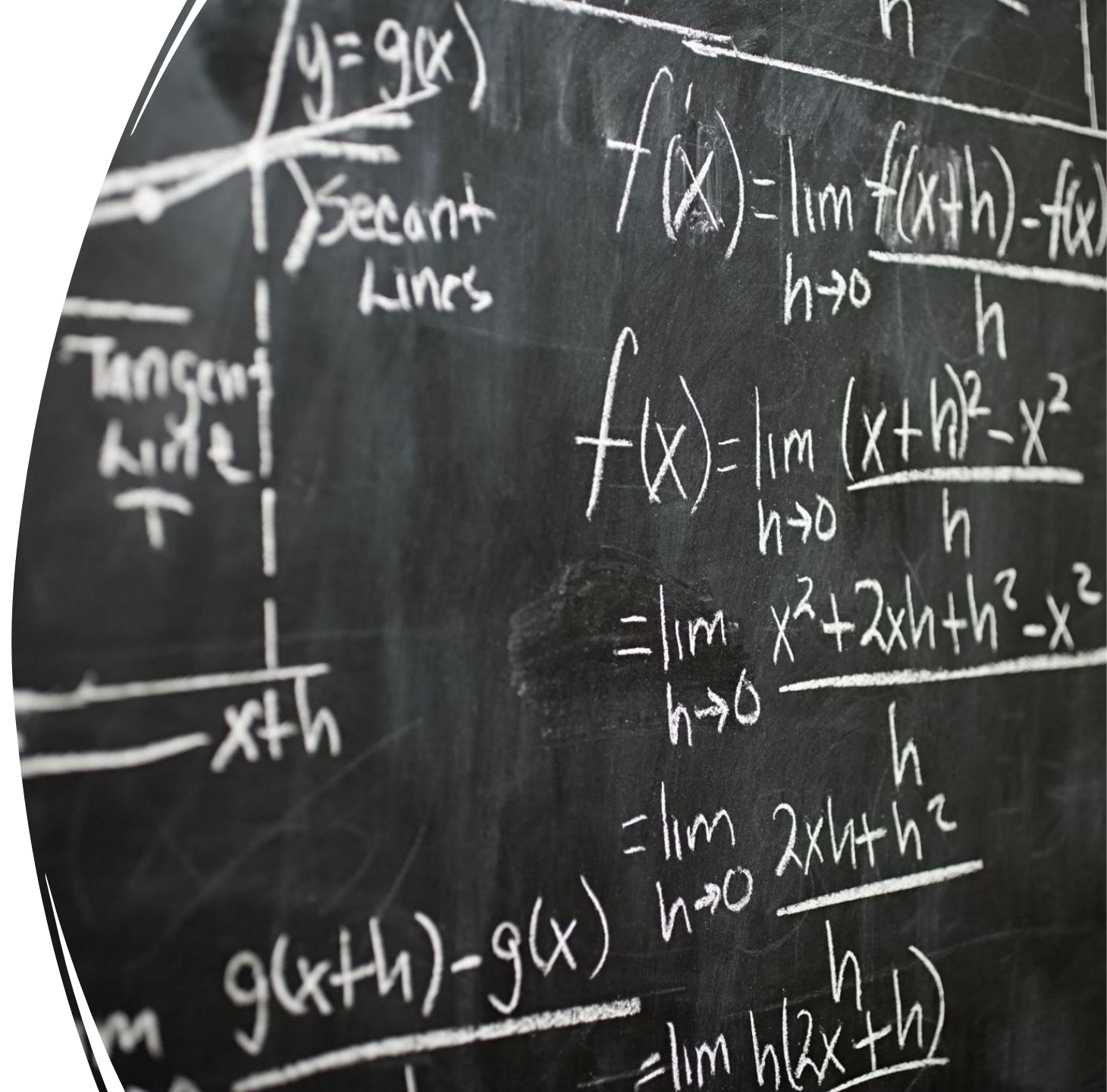


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Volume 469, 15 October 2023, 108629



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Volume 468, 30 September 2023, 108591



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Journal of Computational and Applied
Mathematics



Volume 420, 1 March 2023, 114766




Non-parabolic conical rotations

H. Barış Çolakoğlu ^a , İskender Öztürk ^b  , Mustafa Özdemir ^b 

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Rev. Real Acad. Cienc. Exactas Fis. Nat. Ser. A-Mat. (2023) 117:130

<https://doi.org/10.1007/s13398-023-01464-0>

ORIGINAL PAPER



Construction of general forms of ordinary generating functions for more families of numbers and multiple variables polynomials

Yilmaz Simsek¹ 

Received: 24 March 2023 / Accepted: 3 June 2023 / Published online: 10 June 2023

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Generating functions for series involving higher powers of inverse binomial coefficients and their applications

Yilmaz Simsek 

First published: 18 March 2023 | <https://doi.org/10.1002/mma.9199>

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Rev. Real Acad. Cienc. Exactas Fis. Nat. Ser. A-Mat. (2023) 117:27
<https://doi.org/10.1007/s13398-022-01370-x>

ORIGINAL PAPER



Formulae bringing to light from certain classes of numbers and polynomials

Neslihan Kilar¹  · Daeyeoul Kim² · Yilmaz Simsek³ 

Received: 19 April 2022 / Accepted: 18 November 2022 / Published online: 27 November 2022

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Muhammet Cihat Dağlı 


Pages 1863-1874 | Received 15 Apr 2022, Accepted 26 May 2022, Published online: 10 Jun 2022

 Cite this article  <https://doi.org/10.1080/03081087.2022.2084499>

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
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Research Article

A novel conservative matrix arising from Schröder numbers and its properties

Muhammet Cihat Dağlı 

Pages 1338-1351 | Received 16 Oct 2021, Accepted 20 Mar 2022, Published online: 12 Apr 2022

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Open Access Article

A Pell–Lucas Collocation Approach for an SIR Model on the Spread of the Novel Coronavirus (SARS CoV-2) Pandemic: The Case of Turkey

by  Şuayip Yüzbaşı ^{1,*†}   and  Gamze Yıldırım ^{1,2,†} 

¹ Department of Mathematics, Faculty of Science, Akdeniz University, Antalya 07058, Turkey

² Department of Mathematics, Faculty of Basic Science, Gebze Technical University, Kocaeli 41400, Turkey

* Author to whom correspondence should be addressed.

† These authors contributed equally to this work.

Mathematics **2023**, *11*(3), 697; <https://doi.org/10.3390/math11030697>

Submission received: 27 December 2022 / Revised: 26 January 2023 / Accepted: 28 January 2023 /

Published: 30 January 2023

(This article belongs to the Special Issue Mathematical Biology: Modeling, Analysis, and Simulations, 2nd Edition)

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Mathematical Sciences (2023) 17:267–284

<https://doi.org/10.1007/s40096-022-00468-y>

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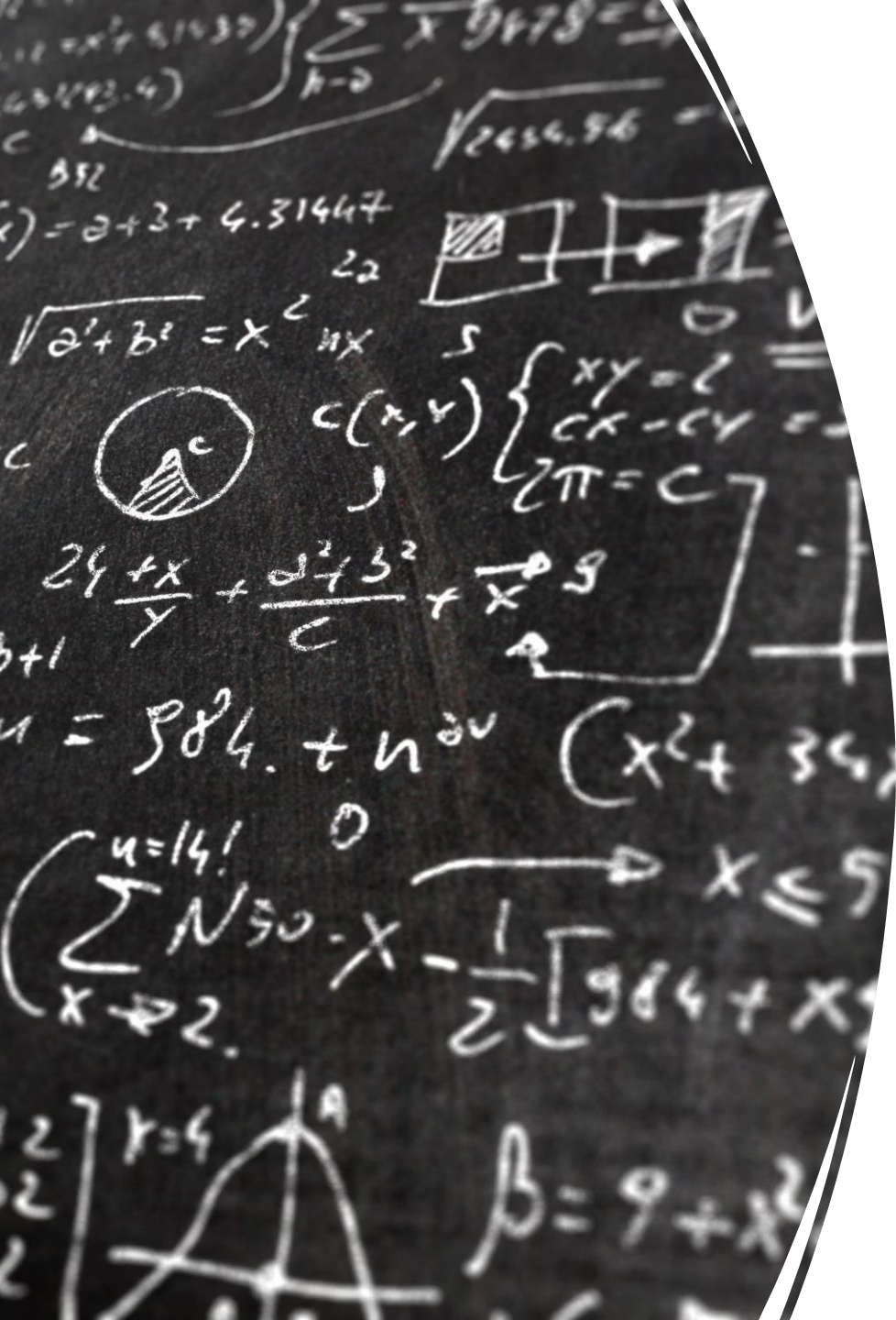


A new Chelyshkov matrix method to solve linear and nonlinear fractional delay differential equations with error analysis

Mohammad Izadi¹  · Şuayip Yüzbaşı² · Waleed Adel^{3,4}

Received: 19 August 2021 / Accepted: 1 April 2022 / Published online: 6 May 2022

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ELSEVIER




Journal of Mathematical Analysis and Applications

Volume 525, Issue 2, 15 September 2023, 127302



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Euler sums of generalized harmonic numbers and connected extensions

Authors Mümün Can, Levent Kargın, Gültekin Soylu

Publication date 2023/10/15

Journal APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS

Volume 17

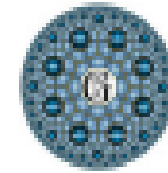
Issue 2

Pages 401-417

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Ann. Funct. Anal. (2023) 14:58
<https://doi.org/10.1007/s43034-023-00279-9>



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ORIGINAL PAPER



On Flett potentials associated with the Laplace–Bessel differential operator

Melih Eryiğit¹ · Güldane Yıldız² · Simten Bayrakci¹ · Sinem Sezer³

Received: 15 February 2023 / Accepted: 2 May 2023 / Published online: 24 May 2023

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Applicable Analysis and Discrete Mathematics 2024 OnLine-First Issue 00, Pages: 1-1

<https://doi.org/10.2298/AADM210112001B>

Full text (PDF) 350 KB

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New series with Cauchy and Stirling numbers, Part 2

Boyadzhiev Khristo N. (Department of Mathematics, Ohio Northern University Ada, Ohio, USA), k-boyadzhiev@onu.edu

Kargin Levent (Department of Mathematics, Akdeniz University, Antalya, Turkey), lkargin@akdeniz.edu.tr

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Volume 20, article number 130, (2023) [Cite this article](#)

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Turkish Journal of Mathematics

Generalized elliptical quaternions with
some applications

HARUN BARIŞ ÇOLAKOĞLU

MUSTAFA ÖZDEMİR

DOI

10.55730/1300-0098.3364

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Applicable Analysis and Discrete Mathematics 2024 OnLine-First Issue 00, Pages: 11-11

<https://doi.org/10.2298/AADM220712011G>

[Full text](#) (PDF 368 KB)

Modification exponential Euler type splines derived from Apostol-Euler numbers and polynomials of complex order

Gun Damla (Department of Mathematics, University of Akdeniz, Antalya, Turkey), damlagun@akdeniz.edu.tr

Simsek Yilmaz (Department of Mathematics, University of Akdeniz, Antalya, Turkey), ysimsek@akdeniz.edu.tr and ysimsek@gmail.com

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[Turkish Journal of Mathematics](#)

Generating functions for reciprocal Catalan-type sums: approach to linear differentiation equation and (p -adic) integral equations

[DAMLA GÜN](#)
[YILMAZ ŞİMŞEK](#)

DOI
10.55730/1300-0098.3396

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Turkish Journal of Mathematics

<http://journals.tubitak.gov.tr/math/>

Research Article

Turk J Math

(2023) 47: 1915 – 1931

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doi:10.55730/1300-0098.3472

Fibonomial matrix and its domain in the spaces l_p and l_∞

Muhammet Cihat DAĞLI^{1,*}, Taja YAYING²

¹Department of Mathematics, Akdeniz University, 07058-Antalya, Türkiye

²Department of Mathematics, Dera Natung Government College, Itanagar, India

Received: 04.02.2022

Accepted/Published Online: 01.09.2023

Final Version: 09.11.2023

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Review Article

A numerical approach to solve hyperbolic telegraph equations via Pell–Lucas polynomials

Şuayip Yüzbaşı  & Gamze Yıldırım 

Article: 2255404 | Received 20 Mar 2023, Accepted 27 Aug 2023, Published online: 20 Sep 2023

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ARTICLE



A Numerical Investigation Based on Exponential Collocation Method for Nonlinear SITR Model of COVID-19

Mohammad Aslefallah¹, Şuayip Yüzbaşı², Saeid Abbasbandy^{1,*}

¹ Department of Applied Mathematics, Imam Khomeini International University, Qazvin, 34149, Iran


² Department of Mathematics, Faculty of Science, Akdeniz University, Antalya, 07058, Turkey


* Corresponding Authors: Saeid Abbasbandy. Email: abbasbandy@sci.ikiu.ac.ir, abbasbandy@yahoo.com

(This article belongs to this Special Issue: [Differential Equations and New Methods in Mathematical Biology](#))

Computer Modeling in Engineering & Sciences **2023**, 136(2), 1687-1706. <https://doi.org/10.32604/cmcs.2023.025647>

Received 23 July 2022; Accepted 28 September 2022; Issue published 06 February 2023

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Pell-Lucas collocation method for solving a class of second order nonlinear differential equations with variable delays

[ŞUAYİP YÜZBAŞI](#)

[GAMZE YILDIRIM](#)

DOI

10.55730/1300-0098.3344

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[Turkish Journal of Mathematics](#)

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A new approaching method for linear neutral delay differential equations by using Clique polynomials

[ŞUAYİP YÜZBAŞI](#)

[MEHMET EMİN TAMAR](#)

DOI

10.55730/1300-0098.3483

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Numerical solutions of the Bagley–Torvik equation by using generalized functions with fractional powers of Laguerre polynomials

Şuayip Yüzbaşı and Gamze Yıldırım

From the journal International Journal of Nonlinear Sciences and Numerical Simulation

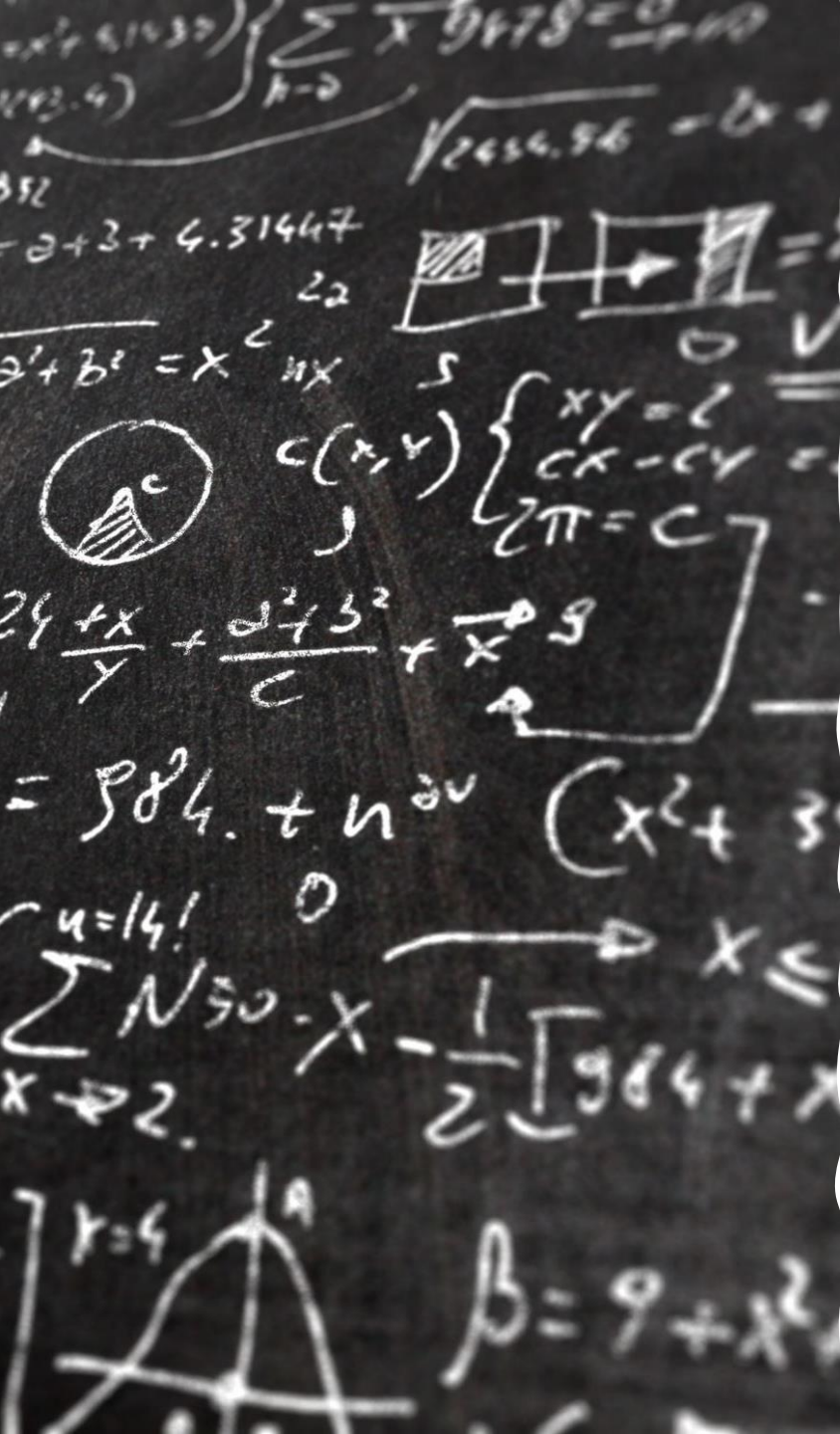
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Yılmaz Şimşek

Akdeniz University, Turkey

has presented the lecture entitled

Formulas for sum of powers of consecutive integers derive from certain family of finite sums involving higher powers of (inverse) binomial coefficients

at the International Mathematical Conference Analysis, Approximation, and Applications, dedicated to Academician Gradimir V. Milovanović on the occasion of his 75th anniversary, organized by Faculty of Science, University of Kragujevac



On behalf of Scientific Committee

June 21 – 24, 2023, Vrnjačka Banja, Serbia

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MICOPAM 2023

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August 23 – 27, 2023



ATTENDANCE CERTIFICATE

Professor Yılmaz Simsek (Akdeniz University - Turkey) has participated in the 6th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2023), dedicated to Professor Yılmaz SIMSEK on the Occasion of his 60th Anniversary, held at Université d'Evry in Paris, FRANCE on August 23-27, 2023 and made an oral presentation entitled *On the relations derived from consideration of generating functions for sum of higher powers of inverse binomial coefficients* .

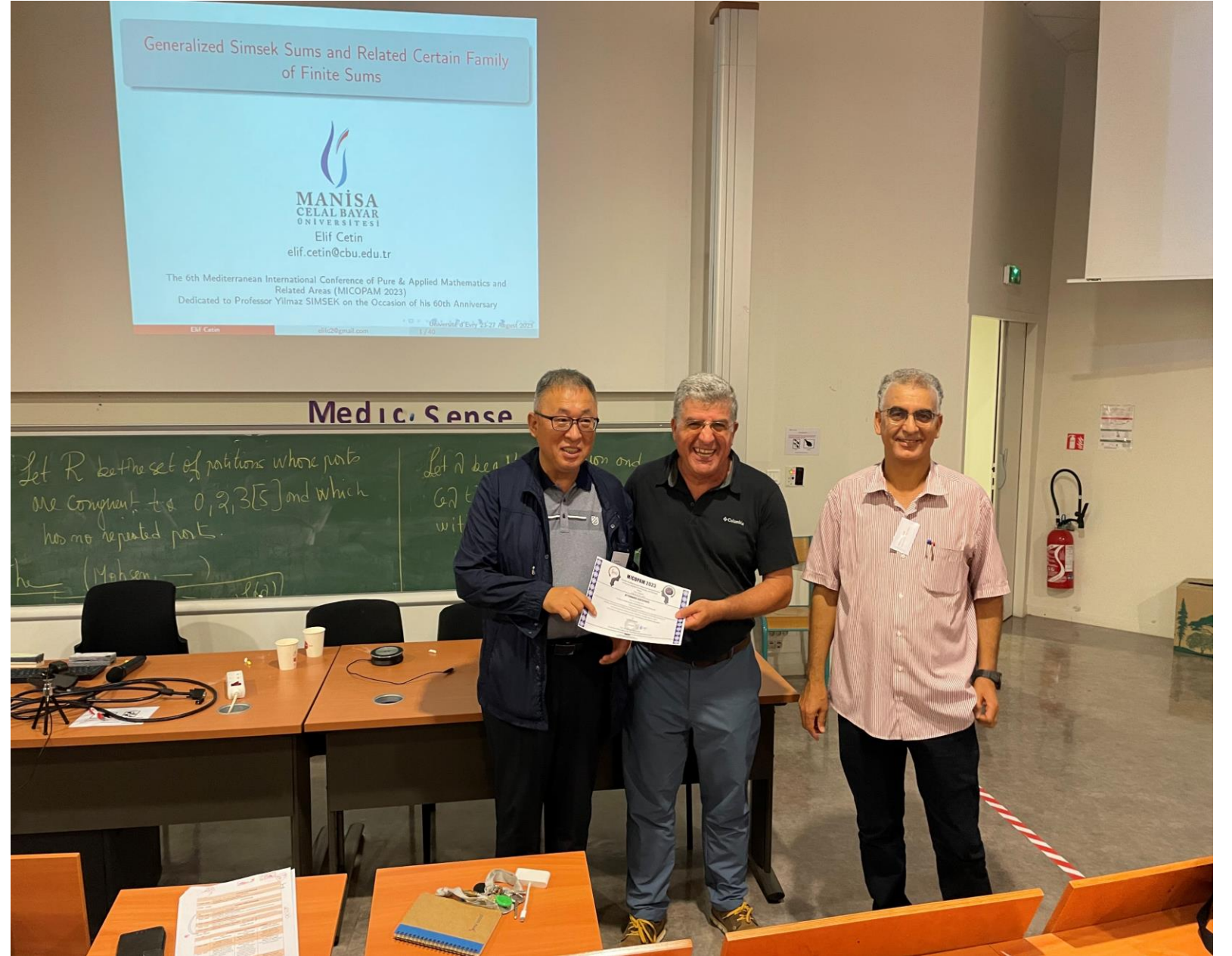


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E-mail: micopam2018@gmail.com
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GFSNP 2023

The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications, Dedicated to Professor Yılmaz SIMSEK on the Occasion of his 60th Anniversary

Antalya, TURKEY
March 11 - 13, 2023



ATTENDANCE CERTIFICATE

This is to certify that

Professor Yılmaz Şimşek (Akdeniz University, TURKEY)

has participated in

The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023),

Dedicated to Professor Yılmaz SIMSEK on the Occasion of his 60th Anniversary, held at Sherwood Exclusive Lara Hotel in Antalya, TURKEY on March 11-13, 2023,

and made an oral presentation entitled "Observations on certain families of generating functions with their performers".

Prof. Dr. Mustafa ALKAN

On behalf of the Organizing Committee of GFSNP 2023

CONTACT

Website: <https://gfsnpsymposia.com>
E-mail: gfsnp.symposia@gmail.com

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Western Balkan Conference on Mathematics and Applications

September 7-9, 2023, Prishtine, Kosovo (<http://wbema2023.ilirias.com/>)



CERTIFICATE

*This certificate that Yılmaz Simsek, has given an invited talk entitled
“Notes on New Certain Classes of Polynomials and Numbers involving Apostol-Bernoulli
numbers and polynomials”,*

*during the Western Balkan Conference on Mathematics and Applications, held on
September 7-9, 2023 at Univesity of Prishtina, Prishtinë, Kosovo.*

Naim L. Braha
Department of Mathematics,
Faculty of Sciences and Mathematics,
University of Prishtina, Kosovo

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