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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, Turkey 1990 - 1993
Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, Turkey 1988 - 1990
Undergraduate, Cukurova University, Fen Edebiyat, Matematik, Turkey 1983 - 1987

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Dedekind ve Hardy Toplamlarının genelleştirilmesi, Cukurova University, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, 1993
Postgraduate, Hermityan Matris Eşitsizlikleri, Cukurova University, Fen Bilimleri Enstitüsü, Matematik/Analiz Ve Fonksiyonlar Teorisi, 1990

Research Areas

Mathematics, General Mathematics, Natural Sciences

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2012 - Continues
Associate Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2007 - 2012
Assistant Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2005 - 2007
Assistant Professor, Mersin University, Fen Edebiyat Fakültesi/Matematik, Matematik, 1993 - 2005
Lecturer, Cukurova University, Mersin Meslek Yüksek Okulu, Teknik Birimler, 1988 - 1993

Academic and Administrative Experience

Mersin University, Fen Bilimleri Enstitüsü, 1996 - 1998
Mersin University, Matematik, 1993 - 1994

Courses

Karmaşık Analiz I ve II, Undergraduate, 2021 - 2022
Kısmi Diferansiyel Denklemler, Undergraduate, 2021 - 2022
Özel Fonksiyonlar I ve II, Postgraduate, 2018 - 2019
Analitik Sayılar Teorisi, Postgraduate, 2017 - 2018
Olasılık, Undergraduate, 2013 - 2014
Diferansiyel Denklemler Teorisine Giriş, Undergraduate, 2013 - 2014
P-Adik Sayılar, Doctorate, 2013 - 2014
Olasılık ve Ölçüm Kuramı, Postgraduate, 2013 - 2014

Advising Theses

ŞİMŞEK Y., xx, Doctorate, D.GÜN(Student), Continues
ŞİMŞEK Y., Leibnitz tipli sayılar ile bazı özel toplamlar arasındaki ilişkiler, Postgraduate, D.KAYA(Student), Continues
ŞİMŞEK Y., xx, Postgraduate, Y.ÇETİN(Student), Continues
ŞİMŞEK Y., Hermite tipli Milne-Thomson polinomlarının üreteç fonksiyonları ve bunların hesaplamalı bilimlerdeki uygulamaları, Doctorate, N.KILAR(Student), 2021
ŞİMŞEK Y., B-SPLİNE EĞRİLERİ İLE EULERİAN TİPLİ POLİNOMLAR ARASINDAKİ İLİŞKİLER VE BUNLARIN UYGULAMALARI, Postgraduate, D.GÜN(Student), 2020
ŞİMŞEK Y., HİLBERT MATRİSLERİ VE HANKEL DETERMİNANTLARININ BAZI ÖZEL POLİNOM VE SAYILARI İLE İLİŞKİLERİ, Postgraduate, Z.Selin(Student), 2020
ŞİMŞEK Y., SONLU LEKSİKOGRAFİKAL SIRALI ALFABE ÜZERİNDE TANIMLI KELİMELER VE DE BRUIJN TİPLİ DİZİLERİ İÇEREN ÜRETEÇ FONKSİYONLARI VE BUNLARIN UYGULAMALARI, Doctorate, İ.KÜÇÜKOĞLU(Student), 2018
ŞİMŞEK Y., ÇOK DEĞİŞKENLİ FIBONACCI TİPLİ POLİNOMLAR İÇİN ÜRETEÇ FONKSİYONLARI VE UYGULAMALARI, Doctorate, G.Özdemir(Student), 2017
ŞİMŞEK Y., Sonlu Özel Toplamlar, Doctorate, E.Çetin(Student), 2017
ŞİMŞEK Y., Fubini tipli sayılar ve bunların üreteç fonksiyonları, Postgraduate, N.KILAR(Student), 2017
ŞİMŞEK Y., (q-) UMBRAL ANALİZDE SHEFFER TİPLİ POLİNOMLAR VE UYGULAMALARI, Doctorate, R.Dere(Student), 2016
ŞİMŞEK Y., KOMBİNATORİK TOPLAMLAR VE BUNLARIN OLASILIK VE İSTATİSTİKTEKİ UYGULAMALARI, Postgraduate, H.Amrani(Student), 2016
ŞİMŞEK Y., Merkezi faktöriyel sayılarının üreteç fonksiyonları ve uygulamaları, Postgraduate, Ü.Başar(Student), 2016
ŞİMŞEK Y., MERKEZİ FAKTÖRİYEL SAYILARININ ÜRETEÇ FONKSİYONLARI VE UYGULAMALARI, Postgraduate, Ü.Başar(Student), 2015
ŞİMŞEK Y., On multidimensional Hermite base Appell polynomials, Doctorate, B.KURT(Student), 2013
ŞİMŞEK Y., Çok değişkenli hermite tabanlı appell polinomları üzerine, Doctorate, B.Kurt(Student), 2013
ŞİMŞEK Y., Hecke type operators and their applications, Doctorate, A.AHMET(Student), 2012
ŞİMŞEK Y., Hecke tipi operatörler ve uygulamaları, Doctorate, A.Ahmet(Student), 2012
ŞİMŞEK Y., Generating Functions of Some Special Polynomials and Their Applications on Umbral Algebra, Postgraduate, R.DERE(Student), 2011
ŞİMŞEK Y., Umbrial cebir üzerinde bazı özel polinomların üreteç fonksiyonları ve uygulamaları, Postgraduate, R.Dere(Student), 2011
ŞİMŞEK Y., Hermite Apostol-Bernoulli polynomials, Postgraduate, B.KURT(Student), 2009

ŞİMŞEK Y., On p-adic q-measure and their applications, Doctorate, H.ÖZDEN(Student), 2009

ŞİMŞEK Y., Genereting Functions of Bernoulli Numbers, Postgraduate, S.SELEN(Student), 2009

ŞİMŞEK Y., Teaching Series to highschool students, Postgraduate, F.AKGÜL(Student), 2005

ŞİMŞEK Y., Relations between Eisenstein series and Dedekind sums, Postgraduate, E.KARLIK(Student), 2004

ŞİMŞEK Y., q- Bernoulli Polynomials and numbers, Postgraduate, N.TEPE(Student), 2004

ŞİMŞEK Y., P-adic Hardy sums, Postgraduate, Y.ÇETİNKAYA(Student), 2002

ŞİMŞEK Y., On relations between Weierstrass P-functions, theta functions and Dedekind sums, Postgraduate, C.TAŞKIN(Student), 1997

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Akdeniz Üniversitesi Profesör atama, Akdeniz Üniversitesi , May, 2015

Appointment to Academic Staff-Assistant Professorship, Doğu Akdeniz Üniversitesi Professör ataması, Doğu Akdeniz Üniversitesi, December, 2014

Appointment to Academic Staff-Assistant Professorship, Profesörlük Atama, İstanbul Arel Üniversitesi, February, 2014

Appointment to Academic Staff-Assistant Professorship, Profesörlük Atama, Adıyaman Üniversitesi, January, 2014

Appointment to Academic Staff-Assistant Professorship, Doçentlik Atama Jazan University, Jazan University, January, 2014

Associate Professor Exam, Doçentlik-Uluslararası kıbrıs Üniversitesi, Uluslararası kıbrıs Üniversitesi, July, 2013

Appointment to Academic Staff-Assistant Professorship, Yrd. Doç. Dr, Uludağ Üniversitesi, September, 2012

Appointment to Academic Staff-Assistant Professorship, Konya Selcuk Universitesi, Konya Selcuk Universitesi, January, 2006

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Formulas for p-adic q-integrals including falling-rising factorials, combinatorial sums and special numbers**
Şimşek Y.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES. SERIE A: MATEMÁTICAS, vol.118, no.92, pp.1-52, 2024 (SCI-Expanded)

II. **Novel Formulas for B-Splines, Bernstein Basis Functions, and Special Numbers: Approach to Derivative and Functional Equations of Generating Functions**
Şimşek Y.
Mathematics, vol.12, no.1, pp.1-20, 2024 (SCI-Expanded)

III. **Generating functions for polynomials derived from central moments involving bernstein basis functions and their applications**
Yılmaz Ceylan A., Şimşek Y.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES. SERIE A: MATEMÁTICAS, vol.118, no.57, pp.1-17, 2024 (SCI-Expanded)

IV. **On the generating functions and special functions associated with superoscillations**
Colombo F., Krausshar R., Sabadini I., ŞİMŞEK Y.
Discrete Applied Mathematics, vol.340, pp.215-227, 2023 (SCI-Expanded)

V. **Construction of general forms of ordinary generating functions for more families of numbers and multiple variables polynomials**
Şimşek Y.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES. SERIE A: MATEMÁTICAS, vol.117, no.3, pp.1-26, 2023 (SCI-Expanded)

VI. **Recurrence relations, associated formulas, and combinatorial sums for some parametrically**

generalized polynomials arising from an analysis of the Laplace transform and generating functions
Kilar N., ŞİMŞEK Y., Srivastava H. M.
RAMANUJAN JOURNAL, vol.61, no.3, pp.731-756, 2023 (SCI-Expanded)

VII. **Modification exponential Euler type splines derived from Apostol-Euler numbers and polynomials of complex order**
Gün D., Simsek Y.
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.17, no.1, pp.197-215, 2023 (SCI-Expanded)

VIII. **Generating functions for series involving higher powers of inverse binomial coefficients and their applications**
Şimşek Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.46, no.18, pp.1-27, 2023 (SCI-Expanded)

IX. **Generating functions for reciprocal Catalan-type sums: approach to linear differentiation equation and (p-adic) integral equations**
Gün D., Şimşek Y.
TURKISH JOURNAL OF MATHEMATICS, vol.47, no.2, pp.830-845, 2023 (SCI-Expanded)

X. **Formulae bringing to light from certain classes of numbers and polynomials**
Kilar N., Kim D., Simsek Y.
Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales - Serie A: Matematicas, vol.117, no.1, 2023 (SCI-Expanded)

XI. **Analysis of Generating Functions for Special Words and Numbers and Algorithms for Computation**
Kucukoglu I., Milovanović G. V., Simsek Y.
Mediterranean Journal of Mathematics, vol.19, no.6, 2022 (SCI-Expanded)

XII. **Derivation of computational formulas for certain class of finite sums: Approach to generating functions arising from p-adic integrals and special functions**
ŞİMŞEK Y.
Mathematical Methods in the Applied Sciences, vol.45, no.16, pp.9520-9544, 2022 (SCI-Expanded)

XIII. **Formulas for characteristic function and moment generating functions of beta type distribution**
YALÇIN F., ŞİMŞEK Y.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.116, no.2, 2022 (SCI-Expanded)

XIV. **On Generating Functions for Parametrically Generalized Polynomials Involving Combinatorial, Bernoulli and Euler Polynomials and Numbers**
Bayad A., ŞİMŞEK Y.
Symmetry, vol.14, no.4, 2022 (SCI-Expanded)

XV. **FORMULAS AND COMBINATORIAL IDENTITIES FOR CATALAN-TYPE NUMBERS AND POLYNOMIALS: THEIR ANALYSIS WITH COMPUTATIONAL ALGORITHMS**
Kucukoglu I., ŞİMŞEK Y.
APPLIED AND COMPUTATIONAL MATHEMATICS, vol.21, no.2, pp.158-177, 2022 (SCI-Expanded)

XVI. **Construction and computation of unified Stirling-type numbers emerging from p-adic integrals and symmetric polynomials**
KÜÇÜKOĞLU İ., ŞİMŞEK Y.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.115, no.4, 2021 (SCI-Expanded)

XVII. **Applications of constructed new families of generating-type functions interpolating new and known classes of polynomials and numbers**
ŞİMŞEK Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.14, pp.11245-11268, 2021 (SCI-Expanded)

XVIII. **p-Adic q-Twisted Dedekind-Type Sums**
Bayad A., ŞİMŞEK Y.
SYMMETRY-BASEL, vol.13, no.9, 2021 (SCI-Expanded)

XIX. **New Families of Special Polynomial Identities Based upon Combinatorial Sums Related to p-Adic**

Integrals
ŞİMŞEK Y.
SYMMETRY-BASEL, vol.13, no.8, 2021 (SCI-Expanded)

XX. **On New Formulas of Fibonacci and Lucas Numbers Involving Golden Ratio Associated with Atomic Structure in Chemistry**
Battaloglu R., ŞİMŞEK Y.
SYMMETRY-BASEL, vol.13, no.8, 2021 (SCI-Expanded)

XXI. **Multiple Dedekind Type Sums and Their Related Zeta Functions**
Bayad A., ŞİMŞEK Y.
MATHEMATICS, vol.9, no.15, 2021 (SCI-Expanded)

XXII. **New Computational Formulas for Special Numbers and Polynomials Derived from Applying Trigonometric Functions to Generating Functions**
Kilar N., ŞİMŞEK Y.
MILAN JOURNAL OF MATHEMATICS, vol.89, no.1, pp.217-239, 2021 (SCI-Expanded)

XXIII. **Computational formulas and identities for new classes of Hermite-based Milne-Thomson type polynomials: Analysis of generating functions with Euler's formula**
KILAR N., ŞİMŞEK Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.8, pp.6731-6762, 2021 (SCI-Expanded)

XXIV. **New integral formulas and identities involving special numbers and functions derived from certain class of special combinatorial sums**
ŞİMŞEK Y.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.115, no.2, 2021 (SCI-Expanded)

XXV. **MATRIX REPRESENTATIONS FOR A CERTAIN CLASS OF COMBINATORIAL NUMBERS ASSOCIATED WITH BERNSTEIN BASIS FUNCTIONS AND CYCLIC DERANGEMENTS AND THEIR PROBABILISTIC AND ASYMPTOTIC ANALYSES**
KÜÇÜKOĞLU İ., ŞİMŞEK Y.
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.15, no.1, pp.45-68, 2021 (SCI-Expanded)

XXVI. **Computational identities for extensions of some families of special numbers and polynomials**
KÜÇÜKOĞLU I., ŞİMŞEK Y.
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.6, pp.1-25, 2021 (SCI-Expanded)

XXVII. **NEW CLASSES OF RECURRENCE RELATIONS INVOLVING HYPERBOLIC FUNCTIONS, SPECIAL NUMBERS AND POLYNOMIALS**
ŞİMŞEK Y.
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.15, no.2, pp.1-18, 2021 (SCI-Expanded)

XXVIII. **A New Family of Zeta Type Functions Involving the Hurwitz Zeta Function and the Alternating Hurwitz Zeta Function**
Kim D., ŞİMŞEK Y.
MATHEMATICS, vol.9, no.3, 2021 (SCI-Expanded)

XXIX. **Identities and relations for Hermite-based Milne-Thomson polynomials associated with Fibonacci and Chebyshev polynomials**
Kilar N., ŞİMŞEK Y.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.115, no.1, 2021 (SCI-Expanded)

XXX. **A NEW FAMILY OF COMBINATORIAL NUMBERS AND POLYNOMIALS ASSOCIATED WITH PETERS NUMBERS AND POLYNOMIALS**
ŞİMŞEK Y.
APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.14, no.3, pp.627-640, 2020 (SCI-Expanded)

XXXI. **Some new identities and inequalities for Bernoulli polynomials and numbers of higher order related to the Stirling and Catalan numbers**
GÜN D., ŞİMŞEK Y.

REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.114, no.4, 2020 (SCI-Expanded)

XXXII. Derivation of computational formulas for Changhee polynomials and their functional and differential equations

So J. S., ŞİMŞEK Y.

JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2020, no.1, 2020 (SCI-Expanded)

XXXIII. A New Class of Symmetric Beta Type Distributions Constructed by Means of Symmetric Bernstein Type Basis Functions

YALÇIN F., ŞİMŞEK Y.

SYMMETRY-BASEL, vol.12, no.5, 2020 (SCI-Expanded)

XXXIV. Some New Families of Special Polynomials and Numbers Associated with Finite Operators

ŞİMŞEK Y.

SYMMETRY-BASEL, vol.12, no.2, 2020 (SCI-Expanded)

XXXV. Generalized Tepper's Identity and Its Application

Kruchinin D., KRUCHININ V., ŞİMŞEK Y.

MATHEMATICS, vol.8, no.2, 2020 (SCI-Expanded)

XXXVI. New classes of Catalan-type numbers and polynomials with their applications related to p-adic integrals and computational algorithms

KÜÇÜKOĞLU İ., Simsek B., ŞİMŞEK Y.

TURKISH JOURNAL OF MATHEMATICS, vol.44, no.6, pp.2337-2355, 2020 (SCI-Expanded)

XXXVII. A special approach to derive new formulas for some special numbers and polynomials

Kilar N., ŞİMŞEK Y.

TURKISH JOURNAL OF MATHEMATICS, vol.44, no.6, pp.2217-2240, 2020 (SCI-Expanded)

XXXVIII. On Boole-Type Combinatorial Numbers and Polynomials

ŞİMŞEK Y.

FILOMAT, vol.34, no.2, pp.559-565, 2020 (SCI-Expanded)

XXXIX. Identities and Computation Formulas for Combinatorial Numbers Including Negative Order Changhee Polynomials

Kim D., ŞİMŞEK Y., So J. S.

SYMMETRY-BASEL, vol.12, no.1, 2020 (SCI-Expanded)

XL. Identities and Relations for Special Numbers and Polynomials: An Approach to Trigonometric Functions

Kilar N., ŞİMŞEK Y.

FILOMAT, vol.34, no.2, pp.535-542, 2020 (SCI-Expanded)

XLI. Peters type polynomials and numbers and their generating functions: Approach with p-adic integral method

ŞİMŞEK Y.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.42, no.18, pp.7030-7046, 2019 (SCI-Expanded)

XLII. IDENTITIES FOR DIRICHLET AND LAMBERT-TYPE SERIES ARISING FROM THE NUMBERS OF A CERTAIN SPECIAL WORD

Kucukoglu I., ŞİMŞEK Y.

APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.13, no.3, pp.787-804, 2019 (SCI-Expanded)

XLIII. ON A FAMILY OF SPECIAL NUMBERS AND POLYNOMIALS ASSOCIATED WITH APOSTOL-TYPE NUMBERS AND POYNOMIALS AND COMBINATORIAL NUMBERS

KÜÇÜKOĞLU İ., ŞİMŞEK Y.

APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.13, no.2, pp.478-494, 2019 (SCI-Expanded)

XLIV. Two Parametric Kinds of Eulerian-Type Polynomials Associated with Euler's Formula

Kilar N., ŞİMŞEK Y.

SYMMETRY-BASEL, vol.11, no.9, 2019 (SCI-Expanded)

XLV. Generating functions for finite sums involving higher powers of binomial coefficients: Analysis of hypergeometric functions including new families of polynomials and numbers

ŞİMŞEK Y.

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.477, no.2, pp.1328-1352, 2019 (SCI-Expanded)

XLVI.   **Formulas for Poisson-Charlier, Hermite, Milne-Thomson and other type polynomials by their generating functions and p-adic integral approach**

ŞİMŞEK Y.

REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.113, no.2, pp.931-948, 2019 (SCI-Expanded)

XLVII.   **A new family of Lerch-type zeta functions interpolating a certain class of higher-order Apostol-type numbers and Apostol-type polynomials**

Kucukoglu I., ŞİMŞEK Y., Srivastava H. M.

QUAESTIONES MATHEMATICAE, vol.42, no.4, pp.465-478, 2019 (SCI-Expanded)

XLVIII.   **On Generating Functions for Boole Type Polynomials and Numbers of Higher Order and Their Applications**

ŞİMŞEK Y., So J. S.

SYMMETRY-BASEL, vol.11, no.3, 2019 (SCI-Expanded)

XLIX.   **Multidimensional Bernstein polynomials and Bezier curves: Analysis of machine learning algorithm for facial expression recognition based on curvature**

KÜÇÜKOĞLU İ., Simsek B., ŞİMŞEK Y.

APPLIED MATHEMATICS AND COMPUTATION, vol.344, pp.150-162, 2019 (SCI-Expanded)

L.   **On interpolation functions for the number of k-ary Lyndon words associated with the Apostol-Euler numbers and their applications**

Kucukoglu I., ŞİMŞEK Y.

REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.113, no.1, pp.281-297, 2019 (SCI-Expanded)

LI.   **An approach to negative hypergeometric distribution by generating function for special numbers and polynomials**

KÜÇÜKOĞLU İ., Simsek B., ŞİMŞEK Y.

TURKISH JOURNAL OF MATHEMATICS, vol.43, no.5, pp.2337-2353, 2019 (SCI-Expanded)

LII.   **Identities, inequalities for Boole-type polynomials: approach to generating functions and infinite series**

ŞİMŞEK Y., So J. S.

JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2019, 2019 (SCI-Expanded)

LIII.   **IDENTITIES AND RELATIONS ON THE q-APOSTOL TYPE FROBENIUS-EULER NUMBERS AND POLYNOMIALS**

KUCUKOGLU I., ŞİMŞEK Y.

JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, vol.56, no.1, pp.265-284, 2019 (SCI-Expanded)

LIV.   **Generating functions for unification of the multidimensional Bernstein polynomials and their applications**

Simsek Y.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.41, no.17, pp.7170-7181, 2018 (SCI-Expanded)

LV.   **Construction method for generating functions of special numbers and polynomials arising from analysis of new operators**

ŞİMŞEK Y.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.41, no.16, pp.6934-6954, 2018 (SCI-Expanded)

LVI.   **NEW FAMILIES OF SPECIAL NUMBERS FOR COMPUTING NEGATIVE ORDER EULER NUMBERS AND RELATED NUMBERS AND POLYNOMIALS**

ŞİMŞEK Y.

APPLICABLE ANALYSIS AND DISCRETE MATHEMATICS, vol.12, no.1, pp.1-35, 2018 (SCI-Expanded)

LVII.   **Identities and recurrence relations of special numbers and polynomials of higher order by analysis of their generating functions**

ŞİMŞEK Y., Kim D.

JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2018, 2018 (SCI-Expanded)

LVIII. **Combinatorial Identities and Sums for Special Numbers and Polynomials**
ŞİMŞEK Y.
FILOMAT, vol.32, no.20, pp.6869-6877, 2018 (SCI-Expanded)

LIX. **Construction of some new families of Apostol-type numbers and polynomials via Dirichlet character and p-adic q-integrals**
Simsek Y.
TURKISH JOURNAL OF MATHEMATICS, vol.42, no.2, pp.557-577, 2018 (SCI-Expanded)

LX. **Combinatorial sums and binomial identities associated with the Beta-type polynomials**
ŞİMŞEK Y.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.47, no.5, pp.1144-1155, 2018 (SCI-Expanded)

LXI. **Identities and Derivative Formulas for the Combinatorial and Apostol-Euler Type Numbers by Their Generating Functions**
KÜÇÜKOĞLU İ., ŞİMŞEK Y.
FILOMAT, vol.32, no.20, pp.6879-6891, 2018 (SCI-Expanded)

LXII. **Identities associated with Milne-Thomson type polynomials and special numbers**
ŞİMŞEK Y., Cakic N.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2018, 2018 (SCI-Expanded)

LXIII. **Computation of k-ary Lyndon Words Using Generating Functions and Their Differential Equations**
Kucukoglu I., ŞİMŞEK Y.
FILOMAT, vol.32, no.10, pp.3455-3463, 2018 (SCI-Expanded)

LXIV. **NUMERICAL EVALUATION OF SPECIAL POWER SERIES INCLUDING THE NUMBERS OF LYNDON WORDS: AN APPROACH TO INTERPOLATION FUNCTIONS FOR APOSTOL-TYPE NUMBERS AND POLYNOMIALS**
Kucukoglu I., ŞİMŞEK Y.
ELECTRONIC TRANSACTIONS ON NUMERICAL ANALYSIS, vol.50, pp.98-108, 2018 (SCI-Expanded)

LXV. **Partial differential equations for a new family of numbers and polynomials unifying the Apostol-type numbers and the Apostol-type polynomials**
Srivastava H. M., Kucukoglu I., ŞİMŞEK Y.
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XVI. **NEW FORMULAS AND NUMBERS ARISING FROM ANALYZING COMBINATORIAL NUMBERS AND POLYNOMIALS**
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III. **On the relations derived from consideration of generating functions for sum of higher powers of inverse binomial coefficients**
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VI. **Generating functions for superoscillating functions and recurrence relations**
Colombo F., Krausshar R. S., Sabadini I., ŞİMŞEK Y.
The 6th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2023), Paris, France, 23 - 27 August 2023, pp.34-40

VII. **A note on generalized Szâsz-Schurer-Baskakov operator with their applications**
ŞÜKRÜOĞLU E., ŞİMŞEK Y.
The 6th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2023), Paris, France, 23 - 27 August 2023, pp.162-166

VIII. **On Combinatorial Numbers and Polynomials and Their Applications**
ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics 2021, ICNAAM 2021, Rhodes, Greece, 20 - 26 September 2021, vol.2849

IX. **Formulas for sum of powers of consecutive integers derive from certain family of finite sums involving higher powers of (inverse) binomial coefficients**
ŞİMŞEK Y.
International Mathematical Conference Analysis, Approximations and Applications (AAA2023), Seria, Brunei, 21 - 24 June 2023, pp.91

X. **Remarks on graph type polynomials involved in chemistry and linear recurrence relation**
Çetin Y., ŞİMŞEK Y.
The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023), Antalya, Turkey, 11 - 13 March 2023, pp.289-192

XI. **Observations on certain families of generating functions with their performers**
ŞİMŞEK Y.
The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023), Antalya, Turkey, 11 - 13 March 2023, pp.2-54

XII. **Formulae for exponential Apostol-Genocchi splines**
GÜN D., ŞİMŞEK Y.
The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023), Antalya, Turkey, 11 March 2023, pp.148-154

XIII. **Some new formulas derived from generating function for derangement numbers**
Bozo E., ŞİMŞEK Y.
The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023), Antalya, Turkey, 11 - 13 March 2023, pp.158-160

XIV. **Notes on Bernoulli polynomials associated with linear map on the set of rational numbers**
Polat E., ŞİMŞEK Y.
The 13th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP 2023), Antalya, Turkey, 11 - 13 March 2023, pp.167-169

XV. **Some special series involving two variable Fibonacci type polynomials and combinatorial numbers**
GÜN D., ŞİMŞEK Y.
The 5th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2022), Antalya, Turkey, 27 - 30 October 2022, vol.2022, pp.54-60

XVI. **Remarks on generalization Szâsz-Mirakjan-Baskakov operator and their applications**
ŞÜKRÜOĞLU E., ŞİMŞEK Y.
The 5th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas

(MICOPAM 2022), Antalya, Turkey, 27 - 30 October 2022, pp.81-84

XVII.   **A note on mathematical model for conversion of sentences from active voice to passive voice**
Hazar M. O., ŞİMŞEK Y.
The 5th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas
(MICOPAM 2022), Antalya, Turkey, 27 - 30 October 2022, vol.2022, pp.146-148

XVIII.   **Formulas derived from certain family operator and p-adic bosonic integral**
ŞİMŞEK Y.
The 5th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas
(MICOPAM 2022), Antalya, Turkey, 27 - 30 October 2022, vol.2022, pp.232-236

XIX.   **Notes on Formulas for Apostol Type Numbers and Polynomials Derived from Partial Multiple Euler Type Zeta Function II**
Kim D., ŞİMŞEK Y.
20th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2022), Girit, Greece, 19 - 25 September 2022, vol.2022, pp.46-47

XX.   **Notes on Generating Functions of Special Numbers and Polynomials and Their Applications**
ŞİMŞEK Y.
20th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2022), Girit, Greece, 19 - 25 September 2022, vol.2022, pp.10-11

XXI.   **Formulas for Calculating Numerical Values of Combinatorial Sums Involving Apostol Bernoulli Numbers and Polynomials II**
GÜN D., ŞİMŞEK Y.
20th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2022), Girit, Greece, 19 - 25 September 2022, vol.2022, pp.22-24

XXII.   **A Note on Certain Classes of Finite Sums II**
ŞİMŞEK Y.
20th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2022), Girit, Greece, 19 - 25 September 2022, vol.2022, pp.53-55

XXIII.   **Commentaries on Relations for Apostol Type and Special Polynomials II**
GÜN D., ŞİMŞEK Y.
20th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2022), Girit, Greece, 19 - 25 September 2022, vol.2022, pp.20-21

XXIV.   **Infinite Series Representations for Certain Classes of Combinatorial Numbers and Polynomials**
GÜN D., ŞİMŞEK Y.
International Symposium on Advanced Engineering Technologies (ISADET), Kahramanmaraş, Turkey, 16 June 2022, pp.385-389

XXV.   **On Fibonacci type numbers and polynomials derived from homogeneous linear recurrence relation**
Çetin Y., ŞİMŞEK Y.
The 3rd & 4th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2020-2021), Antalya, Turkey, 11 November 2021, pp.83-84

XXVI.   **Relations between a certain combinatorial numbers and Fibonacci numbers**
ŞİMŞEK Y.
The 3rd & 4th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2020-2021), Antalya, Turkey, 11 November 2021, pp.23-25

XXVII.   **On Combinatorial Numbers And Polynomials And Their Applications II**
ŞİMŞEK Y.
19th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2021), Rhodos, Greece, 20 September 2021, pp.81-82

XXVIII. **A note on two parametric kinds of Eulerian-type polynomials related to some special numbers and polynomials II**
Kılar N., ŞİMŞEK Y.
19th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2021), Rhodos, Greece, 20

September 2021, pp.87-89

XXIX. **Formulas for a new class of polynomials containing Bernoulli, Euler and Genocchi polynomials II**
Çetin Y., ŞİMŞEK Y.
19th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2021), Rhodos, Greece, 20
September 2021, pp.93-95

XXX. **Preface of the "The 8th Symposium on Generating Functions of Special Numbers and Polynomials and Their Applications (GFSNP2019)"**
ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 28
September 2019, vol.2293

XXXI. **Identities and Relations Containing Finite Sums of Powers of Binomial Coefficients**
ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 28
September 2019, vol.2293

XXXII. **Identities and Relations Associated with Generating Function for Apostol-Genocchi Type Polynomials and Trigonometric Functions**
Kilar N., ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 28
September 2019, vol.2293

XXXIII. **Formulas Associated with Combinatorial Polynomials and two Parametric Apostol-type Polynomials**
GÜN D., ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 23 - 28
September 2019, vol.2293

XXXIV. **Applications And Observations For Bezier Curves Involving Bernstein Polynomials**
ŞİMŞEK Y.
International Symposium On Advanced Engineering Technologies (ISADET 2019), Kahramanmaraş, Turkey, 2 - 04
May 2019, pp.111-115

XXXV. **Identities and Relations Associated with Generating Function for Apostol-Genocchi Type Polynomials and Trigonometric Functions II**
KILAR N., ŞİMŞEK Y.
17TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2019),
Rodos, Greece, 23 - 28 September 2019, pp.10-11

XXXVI. **Identities and Relations Containing Finite Sums of Powers of Binomial Coefficients II**
ŞİMŞEK Y.
17TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2019),
Rodos, Greece, 23 - 28 September 2019, pp.3-4

XXXVII. **Formulas associated with combinatorial polynomials and two parametric Apostol-type polynomials II**
GÜN D., ŞİMŞEK Y.
17TH INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2019),
Rodos, Greece, 23 - 28 September 2019, pp.36-38

XXXVIII. **Remarks and Observations On Combinatorial and Changhee Numbers and Polynomials**
Kim D., ŞİMŞEK Y., So J. S.
The 2nd Mediterranean International Conference of Pure Applied Mathematics and Related Areas (MICOPAM
2019), Paris, France, 28 - 31 August 2019, pp.95-98

XXXIX. **Relations Between Apostol-Type Polynomials and Combinatorial Numbers**
KILAR N., ŞİMŞEK Y.
The 2nd Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM
2019), Paris, France, 28 - 31 August 2019, pp.18-22

XL. **Combinatorial Numbers Arising From Two Parametric Apostol-Type Polynomials**
ŞİMŞEK Y.

The 2nd Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2019), Paris, France, 28 - 31 August 2019, pp.10-13

XLI. **MIRIMANOFF POLYNOMIALS: APPROACH TO HYPERGEOMETRIC AND GENERATING FUNCTIONS**
ŞİMŞEK Y.
The 32th International Conference of The Jangjeon Mathematical Society (ICJMS2019), ISBN 978-5-7444-4647-5, Vladivostok, Russia, 17 - 21 July 2019, pp.78-80

XLII. **COMBINATORIAL POLYNOMIALS INVOLVING FINITE SUMS OF HIGHER POWERS OF BINOMIAL COEFFICIENTS:APPROACH TO HYPERGEOMETRIC FUNCTIONS**
ŞİMŞEK Y.
2nd INTERNATIONAL CONFERENCE (GAM-2019), ISBN 978-81-910530-4-3, Acharya Bengaluru, India, 25 - 26 June 2019, pp.2-4

XLIII. **MICHAEL VOWE POLYNOMIALS RELATED TO EULER OPERATOR**
ŞİMŞEK Y.
2nd INTERNATIONAL CONFERENCE (GAM-2019), ISBN 978-81-910530-4-3, Acharya Bengaluru, India, 25 - 26 June 2019, pp.5-7

XLIV. **Two Parametric Kinds of Apostol Type Numbers and Polynomials Related to Eisenstein Series and Dedekind Sums II**
ŞİMŞEK Y.
6th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2019), İstanbul, Turkey, 12 - 15 June 2019, pp.1-4

XLV. **A Note on Two Parametric Apostol Type Polynomials II**
KILAR N., ŞİMŞEK Y.
6th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2019), İstanbul, Turkey, 12 - 15 June 2019, pp.1-3

XLVI. **SOME FORMULAS RELATED TO GENERATING FUNCTIONS INCLUDING TRIGONOMETRIC FUNCTIONS**
KILAR N., ŞİMŞEK Y.
International Symposium on Advanced Engineering Technologies (ISADET 2019), ISBN 978-975-6497-38-8, Kahramanmaraş, Turkey, 2 - 04 May 2019, pp.116-120

XLVII. **APPLICATIONS AND OBSERVATIONS FOR BEZIER CURVES AND BERNSTEIN POLYNOMIALS**
ŞİMŞEK Y.
International Symposium on Advanced Engineering Technologies (ISADET 2019), ISBN 978-975-6497-38-8, Kahramanmaraş, Turkey, 2 - 04 May 2019, pp.111-115

XLVIII. **Remarks and some Formulas Associated with Combinatorial Numbers**
ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 13 - 18 September 2018, vol.2116

XLIX. **Recent Development on Mathematical Models Including Human Root Dentin and the Other Applications**
ER K., ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 13 - 18 September 2018, vol.2116

L. **Some Relationships between Fubini Type Polynomials and other Special Numbers and Polynomials**
Kilar N., ŞİMŞEK Y.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 13 - 18 September 2018, vol.2116

LI. **Integral representations of generating functions for combinatorial numbers and polynomials**
ŞİMŞEK Y.
Mediterranean International Conference of Pure&Applied Mathematics and Related Areas (MICOPAM 2018), Antalya, Turkey, 26 - 29 October 2018, pp.217-220

LII. **Special numbers arised from trigonometric and hyperbolic functions**
KILAR N., ŞİMŞEK Y.

Mediterranean International Conference of Pure&Applied Mathematics and Related Areas (MICOPAM 2018), Antalya, Turkey, 26 - 29 October 2018, pp.221-224

LIII. **Special nite sums including Dedekind sums, Hardy sums, the sum Y(h; k): Approach to Eisenstein series and cotangent sums**
ŞİMŞEK Y.
\International Conference on Hypercomplex Analysis and Applications", Erfurt, Germany, 24 - 26 September 2018, pp.1

LIV. **Recent development on mathematical models including human root dentin and the other applications**
ER K., ŞİMŞEK Y.
THE 16th INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2018 (ICNAAM 2018), Rodos, Greece, 13 - 18 September 2018, pp.12-13

LV. **Recent development on mathematical models including human root dentin and the other applications**
ER K., ŞİMŞEK Y.
THE 16th INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2018 (ICNAAM 2018), Rodos, Greece, 13 - 18 September 2018, pp.12-13

LVI. **Relations between unification of the multidimensional Bernstein polynomials and p-adic integrals**
ŞİMŞEK Y.
International Congress of Mathematics ICM2018, Rıo, Brazil, 1 - 09 August 2018, pp.1-11

LVII. **Relations Arising From A Family Of Combinatorial Numbers And Bernstein Type Basis Functions (Accession Number: WOS:000445105400047)**
KÜÇÜKOĞLU İ., ŞİMŞEK Y.
International Conference of Numerical Analysis and Applied Mathematics (AIP Conference Proceedings), 25 - 30 September 2017

LVIII. **Some special polynomials derived from Peters polynomials and their applications**
ŞİMŞEK Y.
The 31st International Conference of The Jangjeon Mathematical Society (ICJMS2018), Seoul, South Korea, 2 - 06 July 2018, pp.8-10

LIX. **Lambert and Dirichlet Series approach to deriving identities related to the numbers of special words**
Kucukoglu I., ŞİMŞEK Y.
The 31st International Conference of The Jangjeon Mathematical Society (ICJMS2018), Seoul, South Korea, 2 - 06 July 2018, pp.92-95

LX. **APPLICATIONS OF BERNSTEIN POLYNOMIALS INCLUDING BEZIER CURVES AND STRUCTUAL GEOLOGY**
ŞİMŞEK Y.
9th International Symposium on Eastern Mediterranean Geology, ISBN 978-605-4483-50-1, Antalya, Turkey, 7 - 11 May 2018, pp.253-256

LXI. **COMBINATORIAL APPROACH TO ENGINEERING INCLUDING GEOLOGY PROBLEMS**
Kucukoglu I., ŞİMŞEK Y.
9th International Symposium on Eastern Mediterranean Geology, ISBN 978-605-4483-50-1, Antalya, Turkey, 30 April - 11 May 2018, pp.257-259

LXII. **REMARKS ON FAMILIES OF COMBINATORIAL NUMBERS INCLUDING GENERATING FUNCTIONS AND THEIR APPLICATIONS**
ŞİMŞEK Y.
49th Southeastern International Conference on Combinatorics, Graph Theory & Computing, Boca Raton, Fl., United States Of America, 6 - 10 March 2018, pp.1

LXIII. **Relations Arising From A Family Of Combinatorial Numbers And Bernstein Type Basis Functions**
Kucukoglu I., ŞİMŞEK Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Thessaloniki, Greece, 25 - 30 September 2017, vol.1978

LXIV.   **A Note on Generalized Humbert Type Numbers and Polynomials**
OZDEMIR G., ŞİMŞEK Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Thessaloniki, Greece, 25 - 30 September 2017, vol.1978

LXV.   **Interpolation Function for the Families of Numbers Related to the Apostol-Type Numbers**
ŞİMŞEK Y.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Thessaloniki, Greece, 25 - 30 September 2017, vol.1978

LXVI.   **Numerical evaluations on power series including the numbers of Lyndon words and interpolation functions for the Apostol-type polynomials**
KUCUKOGLU I., ŞİMŞEK Y.
Apprximation and Computation Theory and Applications (ACTA2017), Belgrade, Montenegro, 30 November - 02 December 2017, vol.1, no.1, pp.31-32

LXVII. **Generating function for some special olynomials including Poisson-Charlier Hermite type Milne-Thomson type and the other polynomials**
ŞİMŞEK Y.
Apprximation and Computation Theory and Applications (ACTA2017), Belgrade, Montenegro, 30 November - 02 December 2017, vol.1, no.1, pp.53-54

LXVIII. **On a family of special numbers and special polynomials associated with Apostol type numbers and polynomials and other combinatorial sums**
ŞİMŞEK Y.
Théorie des Nombres et Applications, Valenciennes, France, 2 - 03 November 2017, vol.1, no.1, pp.21

LXIX.   **Interpolation functions for the Apostol-type numbers and polynomials**
ŞİMŞEK Y.
15th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2017), 25 - 30 September 2017

LXX.   **A new family of numbers and polynomials related to characters of finite abelian group**
ŞİMŞEK Y.
Caucasian Mathematics Conference II (CMC - II), Van, Turkey, 22 - 24 August 2017, pp.124

LXXI.   **Combinatorial aspect for the special words**
KUCUKOGLU I., ŞİMŞEK Y.
Caucasian Mathematics Conference II (CMC - II), Van, Turkey, 22 - 24 August 2017, pp.96

LXXII. **Combinatorial Applications of the Generating functions to the Lyndon words**
KUCUKOGLU I., ŞİMŞEK Y.
The 30th International Conference of The Jangjeon Mathematical Society" (ICJMS2017), Algiers, Algeria, 12 - 15 July 2017, pp.94-96

LXXIII. **p-adic q-Integrals approach to uniformly differentiable functions and their applications including special numbers and polynomial**
ŞİMŞEK Y.
The 30th International Conference of The Jangjeon Mathematical Society" (ICJMS2017)ISBN:978-9931-9222-1-6, Algiers, Algeria, 12 - 15 July 2017, pp.14-16

LXXIV. **Remarks and observations on (q-) Bernstein Basis functions**
ŞİMŞEK Y.
The 17th International Conference on Mathematical Methods in Science and Engineering - CMMSE 2017, Rota-Cadiz, Spain, 4 - 08 July 2017, vol.1-6, pp.1926-1931

LXXV.   **Generating functions for the Bernstein basis functions and their application to probability distributions and fractals**
ŞİMŞEK Y.
2017, 6th Cornell Conference on Analysis, Probability, and Mathematical Physics on Fractals, Ithaca, United States Of America, 13 - 17 June 2017, pp.17-18

LXXVI. **A Note on the Numbers Yn(?) and the Polynomials Yn(X;?) and Their Generating Functions**

Kucukoglu I., ŞİMŞEK Y.

INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, Aydın, Turkey, 11 - 15 May 2017, pp.129

LXXVII. **On Parametrization Of The Q-Bernstein Basis Functions**
ŞİMŞEK Y.

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), Aydın, Turkey, 11 - 15 May 2017, pp.189

LXXVIII. **Remarks and Observations on Some Special Arithmetical Sums**
CETIN E., ŞİMŞEK Y.

4 th INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, Aydın, Turkey, 11 - 15 May 2017, pp.70

LXXIX. **Interpolation functions of the k-ary Lyndon words including Lerch-zeta type functions**
KUCUKOGLU I., ŞİMŞEK Y.

INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING 2017, İstanbul, Turkey, 10 - 12 May 2017, pp.156

LXXX. **A note on array-type polynomials related to some special numbers and polynomials**
BAYAD A., ŞİMŞEK Y.

INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING 2017, İstanbul, Turkey, 10 - 12 May 2017, pp.57

LXXXI. **Generating functions for special polynomials: analysis of the p-adic Volkenborn integral**
ŞİMŞEK Y.

INTERNATIONAL CONFERENCE ON MATHEMATICS AND ENGINEERING 2017, İstanbul, Turkey, 10 - 12 May 2017, pp.140

LXXXII. **On Combinatorial Type Numbers Related to some Special Numbers**
ŞİMŞEK Y.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863

LXXXIII. **The 5th Symposium on Generating Functions of Special Numbers and Polynomials and their Applications**
ŞİMŞEK Y.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863

LXXXIV. **Identities and Relations Associated with Lucas and some Special Sequences**
Ozdemir G., ŞİMŞEK Y.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863

LXXXV. **On k-ary Lyndon Words and their Generating Functions**
Kucukoglu I., ŞİMŞEK Y.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863

LXXXVI. **Kuvvetli Euler Sayıları ve buların üreteç fonksiyonları üzerine**
ŞİMŞEK Y.

29. Ulusal Matematik Sempozyumu, Mersin, Turkey, 28 - 31 August 2016, pp.1

LXXXVII. **Q Bernstein Bases and Their Applications**
ŞİMŞEK Y.

The 29th International Conference of "The Jangjeon Mathematical Society on Number Theory and Special Functions and its Applications, Pondicherry, India, 8 - 10 August 2016

LXXXVIII. **Remarks And Observations On Bezier Type Curves And Their Some Applications**
KÜÇÜKOĞLU İ., ŞİMŞEK Y.

The 29th International Conference of "The Jangjeon Mathematical Society on Number Theory and Special Functions and its Applications, Pondicherry, India, 8 - 10 August 2016

ŞİMŞEK Y.

29th Journées Arithmétiques, Debrecen, Hungary, 6 - 10 July 2015, pp.1

CV. **A Note on Dedekind Eta Function**

ŞİMŞEK Y.

Two days international conference on Mathematics-yesterday and today, Mysore, India, 25 - 26 December 2014, vol.1, no.7, pp.7

CVI. **Remarks on special finite sums**

ŞİMŞEK Y.

International Conference on Advances in Mathematical Sciences and Applications, Chikkamagaluru, India, 22 - 23 December 2014, vol.1, no.13, pp.13

CVII. **On Reciprocity Law of the Y(h, k) Sums Associated with the Two and Three-Term Polynomial Relations**

Çetin E., ŞİMŞEK Y., Cangul I. N.

International Conference on Recent Advances in Pure and Applied Mathematics: ICRAPAM 2014, Antalya, Turkey, 6 - 09 November 2014, vol.1, no.1, pp.1

CVIII. **Remarks on Bezier type curvs and their applications to Geology**

ŞİMŞEK Y.

30th International Conference on "Ore Potential of Alkaline, Kimberlite and Carbonati-te Magmatism, Antalya, Turkey, 29 September - 02 October 2014, vol.1, no.1, pp.182

CIX. **Özel Sayılar ve Polinomlar ile İlişkili Analitik Fonksiyonlar**

ŞİMŞEK Y.

27. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 26 - 29 August 2014, pp.1

CX. **Umbral Analizde Bazı Hermite Tipli Polinomlar**

DERE R., ŞİMŞEK Y.

27. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 26 - 29 August 2014, vol.-

CXI. **Remarks on combinatorial identities related to special polynomials**

ŞİMŞEK Y.

The 22nd International Conference on Finite or Infinite Dimensional Complex Analysis and Applications (22nd ICFIDCAA), Gyeongju, South Korea, 8 - 11 August 2014, pp.105

CXII. **Decomposition of interpolation function for the generalized Bernoullli type number**

ALKAN M., ŞİMŞEK Y.

the 22 internatioal conferance on finite or innite dimensional comlex analysis and applications, Gyeongju, South Korea, 8 - 11 August 2014, pp.38

CXIII. **A new approach to identities for the Bernstein basis functions and their generating functions**

ŞİMŞEK Y.

2014 NIMS Number Theory and Cryptography Conference, Daejeon, South Korea, 5 - 06 August 2014, pp.8-9

CXIV. **Generating functions on q-Calculus**

ŞİMŞEK Y.

The 27th International Conference of The Jangjeon Mathematical Society: p-adic Analysis, Umbral Algebra and Their Applications, Daejeon, South Korea, 2 - 04 August 2014, vol.27, pp.26

CXV. **Remark on interpolation functions for the q-analogue of the Eulerian numbers**

ALKAN M., ŞİMŞEK Y.

The 27 international conference of the jangjeon Mathematical Society, Daejeon, South Korea, 2 - 04 August 2014, pp.27

CXVI. **Nonclassical Appell Polynomials**

DERE R., ŞİMŞEK Y.

International Congress in Honour of Professor Ravi P. Agarwal at The Auditorium at the Campus of Uludag University, Bursa-TURKEY June 23-26, 2014, Bursa, Turkey, 23 - 26 June 2014, vol.-

CXVII. **On Interpolation Functions for the q-analogue of the Eulerian Numbers Associated with any Character**

ALKAN M., ŞİMŞEK Y.

International Congress in Honour of Professor Ravi P. Agarwal, Bursa, Turkey, 23 - 26 June 2014, pp.62

CXVIII. **Probability Distributions related to the Bernstein polynomials**
ŞİMŞEK Y.
9th International Statistics day Symposium 2014, Antalya, Turkey, 10 - 14 May 2014, pp.16

CXIX. **Remarks on the Bernstein basis functions and their applications**
ŞİMŞEK Y.
Diophantine Analysis and Related Fields 2014, Tsukuba, Japan, 6 - 08 March 2014, pp.1

CXX. **FUNCTIONAL EQUATIONS FOR GENERATING FUNCTIONS OF THE BERNSTEIN BASIS FUNCTIONS**
ŞİMŞEK Y.
26. ULUSAL MATEMATİK SEMPOZYUMU, Diyarbakır, Turkey, 1 - 04 September 2013

CXXI. **Identities for Some Special Polynomials**
DERE R., ŞİMŞEK Y.
26th International Conference of Jangjeon Mathematical Society, Bangalore, India, 1 - 04 August 2013

CXXII. **Identities for Some Special Polynomials**
ŞİMŞEK Y.
26th International Conference of Jangjeon Mathematical Society, Bangalore, India, 1 - 04 August 2013

CXXIII. **Identities for some special polynomials**
ŞİMŞEK Y., Dere R.
26th International Conference of Jangjeon Mathematical Society, Bangalore- India, India, 1 - 04 August 2013

CXXIV. **On the Sum Y(h,k)**
ŞİMŞEK Y., Çetin E.
26th International Conference of Jangjeon Mathematical Society, Bangalore- India, India, 1 - 04 August 2013

CXXV. **Array type polynomials**
ŞİMŞEK Y.
Special Polynomials and their applications Mysore- India, India, 1 - 04 August 2013

CXXVI. **Application on the beta polynomials**
ŞİMŞEK Y.
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CXXXVII. **Remarks on unification of the Bernstein type polynomials**

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CXXXVIII. **Matrix representation of partial Hecke type operators and their applications**

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Scientific Research / Working Group Memberships

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H-Index (WoS): 26
H-Index (Scopus): 29

Congress and Symposium Activities

The 2nd Mediterranean International Conference of Pure&Applied Mathematics and Related Areas (MICOPAM 2020),
Moderator, Antalya, Turkey, 2020
15th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2017), Thessalinoki, GREECE,
25-30 September 2017, Attendee, Thessaloníki, Greece, 2017
Caucasian Mathematics Conference II (CMC - II), VAN, TURKEY, 22-24 August 2017, Attendee, Van, Turkey, 2017
The 30th International Conference of The Jangjeon Mathematical Society" (ICJMS2017)ISBN:978-9931-9222-1-6, Algiers,
ALGERIA, 12-15 July 2017, Attendee, Al-Jazâ´İr, Algeria, 2017
The 17th International Conference on Mathematical Methods in Science and Engineering - CMMSE 2017, Rota-Cadiz,
SPAIN, 4-8 July 2017, vol.1-6, no.CMMSE2017, Attendee, Cádiz, Spain, 2017

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), AYDIN, TURKEY, 11-15 May 2017, Attendee, Aydın, Turkey, 2017

International Conference On Mathematics And Engineering 2017, İstanbul, Turkey, 10-12 May 2017, Attendee, İstanbul, Turkey, 2017

14th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2016) , Rhodes, GREECE, 19-25 September 2016, Attendee, Ródos, Greece, 2016

the 29th International Conference of "The Jangjeon Mathematical Society on Number Theory and Special Functions and its Applications" 08-10 August 2016, Pondicherry University, Pondicherry, INDIA, Attendee, Pondicherry, India, 2016

Operator", International Conference on Analysis and Its Applications (ICAA-2016) , KIRŞEHİR, TURKEY, 12-15 Temmuz 2016, Attendee, Kırşehir, Turkey, 2016

The 14th International Conference on Permutation Patterns (PP 2016, Washington DC, USA, 27 Haziran - 1 Temmuz 2016, Attendee, Washington, United States Of America, 2016

CIMPA Research School on "Number Theory and Applications, Tipaza, ALGERIA, 29 Mayıs - 2 Haziran 2016, Attendee, Tibissah, Algeria, 2016

The 23rd International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, 24-28 August 2015 Kyushu Sangyo University, Fukuoka, JAPAN, Attendee, Fukuoka, Japan, 2015

The 12th International Conference on Finite Fields and Their Applications 13-17 July 2015 Skidmore College Saratoga Springs NY USA., Attendee, New York, United States Of America, 2015

29th Journées Arithmétiques 06-10 July 2015 Debrecren-HUNGARY, Attendee, Debrecen, Hungary, 2015

The 28th International Conference of The Jangjeon Mathematical Society, Attendee, Antalya, Turkey, 2015

International Conference on Diophantine Analysis and Related Topics, Wuhan, CHINA, 10-13 Mart 2016,, Attendee, Wuhan, China, 2015

9th International Statistics day Symposium 2014, Attendee, Side-Antalya, Turkey, 2014

Diophantine Analysis and Related Fields 2014, Attendee, Tsukuba , Japan, 2014

26. ULUSAL MATEMATİK SEMPOZYUMU, Attendee, Diyarbakır, Turkey, 2013

26th International Conference of Jangjeon Mathematical Society/APPLICATIONS ON THE BETA POLYNOMIALS, Attendee, Bangalore, India, 2013

Special Polynomials and their applications/IDENTITIES FOR SOME SPECIAL POLYNOMIALS, Attendee, Mysore, India, 2013

28th Journees Arithmetiques/Remarks On Eulerian Polynomials and Numbers, Attendee, Grenobel, France, 2013

4th International Conference on Mathematical and Computational Applications/Identities associated with generalized Stirling type numbers and Eulerian type polynomials, Attendee, Manisa, Turkey, 2013

International Conference on Applied Analysis ans Mathematical Modelling (ICAAMM2013)/Remarks on Y(h,k), Attendee, İstanbul, Turkey, 2013

1st International Western Balkan Conference of Mathematical Sciences (IWBCMS)/Remarks on Beta polynomials, Attendee, Elbasan, Albania, 2013

Great Plains Operator Theory Symposium/PDEs related to generating functions for Bernstein polynomials, Attendee, BERKELEY, United States Of America, 2013

2013 AAPT Winter Meeting/p-adic q-integral and some family of L-functions and their applications, Attendee, New Orleans, United States Of America, 2013

34. Turkish National Ear, Nose and Throat and Head Surgery, Attendee, Antalya, Turkey, 2012

10th International Conference of Numerical Analysis and Applied Mathematics/i) Relations between Eulerina olynomials and Array Polynomials, ii) Remarks on the Frobenius-Euler polynomials on the umbral algebra with R. Dere, Attendee, Kos, Greece, 2012

International Congress in Honour of Professor Hari M. Srivastava/i) Remarks on unification of the Bernstein type polynomials, ii) Matrix representation of partial Hecke type operators and their applications with A. A. Aygunes, iii) Normalized polynomials and their multiplication formulas with R. Dere, iv) Unified representation of the family of L-functions with H. Ozden, v) On the Generalized Apostol Type Frobenius-Euler Polynomials with. B. Kurt, Attendee, Bursa, Turkey, 2012

1st US-EU conference on Automorphic Forms and related topics/Relations between theta-functions and Hardy-Berndt type sums, Building Bridges, Attendee, Aachen, Germany, 2012

9th International Conference on Mathematical Problems in Engineering/Generating Functions for special polynomials and their applications, Attendee, Viyana, Austria, 2012

International Conference on the Applications of Computer Science and Mathematics in Architecture and Civil Engineering/On interpolation function of the Bernstein polynomials, Attendee, Weimar, Germany, 2012

Eighth International Conference on Mathematical Methods for Curves and Surfaces/On Generating functions for the Bernstein basis functions and their applications, Attendee, Oslo, Norway, 2012

International Conference of the Jangjeon Mathematical Society (ICJMS 2012)/i) Remarks on Hecke type operators, ii) Applications of Umbral Algebra to Some Special Polynomials, Attendee, Seoul, South Korea, 2012

Slovak and Czech Conference on Number Theory/Remarks on Eulerian numbers and polynomials, 12th Colloquiumfest on Algebra and Logic and 9th Polish, Attendee, Ostrava, Czech Republic, 2012

International Workshop on number Theory related to Generating functions and their Arithmetic/Generating functions for classes of the special polynomials and numbers, Attendee, Paris, France, 2011

8th International Conference of Numerical Analysis and Applied Mathematics ICNAAM2010, Attendee, Hilkidiki, Greece, 2011

XXIV. National Matematik symposium,, Attendee, Bursa, Turkey, 2011

The 24 th International Conference of The Jangjeon Mathematical Society/i) A note on unification of multiple zeta functions (with A. A. Aygunes), ii) Bernoulli Type Polynomials on Umbral Algebra (with R. Dere), iii) On The Hermite Based-Second Kind Genocchi polynomials (with B. Kurt), Attendee, Konya, Turkey, 2011

The İnternational Conference on Applied Analysis and algebra (ICAAA2011)/On generating functions for the Bernstein polynomials, Attendee, İstanbul, Turkey, 2011

27 th Journées Arithmétiques/A unified approach to deriving identities for Bernoulli, Euler and Bernstein polynomials, Attendee, Vilnius, Lithuania, 2011

Arctic Number Theory School/Unification of the Bernoulli, Euler and Genocchi numbers and polynomials related to the family of zeta functions, Attendee, Helsinki, Finland, 2011

8th International Conference of Numerical Analysis and Applied Mathematics ICNAAM2010/i)q-Frobenius-Euler Polynomials Related to the (q-)Bernstein Type Polynomials, with Mehmet Acikgoz, Abdelmejid Bayad and V. Lokesha, ii) Hecke Operators Related to the Generalized Dedekind Eta Functions and Applications, with A. Ahmet Aygunes, Attendee, Rhodes, Greece, 2010

International Congress in Honour of Professor H. M. Srivastava on his 70th Birth Anniversary at Uludag University/i)Construction a new generating function of Bernstein type polynomials, ii) The action of Hecke operators to families of Weierstrass type functions and Weber type functions and their applications with A. Ahmet Aygunes, ii) Notes on generalization of the Bernoulli type polynomials with Burak Kurt, iii) Genocchi polynomials associated with the Umbral Algebra with Rahime Dere, Attendee, Bursa, Turkey, 2010

The XIth meeting of the Canadian Number Theory Association at Acadia University/q-Bernoulli type polynomials of higher order associated with Multiple q-zeta functions, Attendee, Wolfville, Nova Scotia , Canada, 2010

Seventh International Conference on Curves and Surfaces/Interpolation Function of Generalized q-Bernstein type polynomials and their application, Attendee, Avignon, France, 2010

The 23th International Conference of The Jangjeon Mathematical Society at Shahid Chamran University/Genocchi type polynomials related to arbitrary positive real parameters and their interpolation function, Attendee, Ahvaz, Iran, 2010

The Banff International Research Station BIRS Scientific Director/Dedekind-type sums, workshop on Dedekind sums in geometry, topology, and arithmetic, Attendee, Nassif Ghoussoub, Turkey, 2009

7th International Conference of Numerical Analysis and Applied Mathematics/ i) Remarks on Interpolation Function of Higher Order (h, q)-Bernoulli Numbers with A. A. Aygunes, ii) Applications of Hecke Operator to Generalized Dedekind Eta Functions with M. Acikgoz, I. N. Cangul, D. Kim, iii) A p-adic Look at the Diophantine Equation x2+112k = yn with I. N. Cangul, G. Soydan, iv) Hurwitz Type Multiple Genocchi Zeta Function with H. Ozden, I. N. Cangul, Attendee, Crete, Greece, 2009

The 22th International Conference of The Jangjeon Mathematical Society at Adichunchanagiri Institute of Technology Chikmagalur/On Dedekind type DC-Sum, Attendee, Karnataka, India, 2009

The One Day International Workshop on Mathematics and Its Applications to Engineering and Thechnology" at S.J.C. Institute of Technology Chikballapur/p-adic q-L-functions, Attendee, Karnataka, India, 2009

6th International Conference of Numerical Analysis and Applied Mathematics/Multiple Interpolation Functions of Higher

Order (h,q)-Bernoulli Numbers, Attendee, Kos, Greece, 2008

The 20th International Conference of The Jangjeon Mathematical Society" at Uludag University/On p-adic q-Dedekind type sums, Attendee, Bursa, Turkey, 2008

The 16th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications/p-adic Dedekind and Hardy-Berndt sums related to Volkenborn integral on Z_{p}, Attendee, Gyeongju, South Korea, 2008

Workshop on p-adic Fourier Analysis, Attendee, Seoul, South Korea, 2008

Institute for Mathematical Science/Twisted p-adic L-function, Worksop on Modular Forms and Their Applications, Attendee, Daejon, South Korea, 2008

The International Federation of Nonlinear Analysts (IFNA) WCNA/q-Hardy–Berndt type sums associated with q-Genocchi type zeta and q-l-functions, Attendee, Orlando, United States Of America, 2008

The Workshop on Mathematical Methods in Applied Sciences/On generating functions of the Bernoulli polynomials with applications, Attendee, Bursa, Turkey, 2008

ICTAMI- International Conference on Theory and Applications in Mathematics and Informatics/p-adic q-L-functions, Attendee, Alba Iulia, Romania, 2007

International Symposium on Complex Function Theory/Elliptic analogue of the Hardy sums related to elliptic Bernoulli functions, Attendee, Sibiu, Romania, 2007

International Symposium on Geometric Function Theory and application/On generating functions of q-Euler numbers and Polynomials, Attendee, İstanbul, Turkey, 2007

Workshop on p-adic analysis and its applications, Attendee, Taegu, South Korea, 2007

The 19th International Conference of The Jangjeon Mathematical Society/Remarks on q-Barnes's multiple zeta function and q-Barnes multiple Bernoulli polynomials, Attendee, Bangalore, India, 2007

On the 17th International Conference of the Jangjeon Mathematical Society/On twisted q-Bernoulli Numbers and twisted q-L-functions, Attendee, Daegu, South Korea, 2006

The 17th International Conference of The Jangjeon Mathematical Society/Generating function of the twisted q-Bernoulli polynomials and numbers related to their intepolation functions, Attendee, Taegu, South Korea, 2006

International Semposium On Analytic Function Theory, Fractional Calculus and Their Applications In Honour of Professor H. M. Srivastava on his 65th Birth Anniversary/On twisted q-Hurwitz zeta function and q-two-variable L-function, Attendee, Victorya, Canada, 2005

The 16th International Conference of the Jangjeon Mathematical Society Akdeniz University/Remarks On Reciprocity Laws of the Dedekind and Hardy Sums, Attendee, Antalya, Turkey, 2005

2005 Algebraic Geometry-Number Theory Camp, KAIST, Attendee, Daejeon, South Korea, 2005

Workshop on p-adic q- Special Functions and their applications, Attendee, Taegu, Turkey, 2005

International Workshop on Analysis and Its Application/On relations between q-Dirichlet L functions, q-Hurwitz zeta function and q-Dedekind sums, Attendee, Mersin, Turkey, 2004

Proceedings of The 15th International Conference of the Jangjeon Mathematical Society/On Generalized q-Hardy Character Sums, Attendee, Hapcheon-Dong, South Korea, 2004

The Proceedings of the 14th International Conference of the Jangjeon Mathematical Society/On normalized Eisenstein series and new theta functions,, Attendee, Maysore, India, 2003

International Mathematical Conference VI.th Bogolubov Readings/Theorems on Weierstrass P(z) Function Hardy sums and Eisenstein series, Attendee, Kiev, Ukraine, 2003

XV. National Matematik symposium, Attendee, Mersin, Turkey, 2002

XIV. National Matematik symposium, Attendee, Eskişehir, Turkey, 2001

XI. National Matematik symposium, Attendee, Isparta, Turkey, 1998

X. National Matematik symposium, Attendee, Bolu, Turkey, 1997

XIII. National Matematik symposium,, Attendee, Adana, Turkey, 1995

IV. National Matematik symposium, Attendee, Hatay, Turkey, 1991

III. National Matematik symposium, Attendee, Van, Turkey, 1990

Awards

Şimşek Y., AKDENİZ ÜNİVERSİTESİ BİLİM ÖDÜLÜ (Temel ve Mühendislik Bilimleri Alanında), Akdeniz Üniversitesi, December 2011