

CURRICULUM VITAE
YILMAZ SIMSEK
Professor of Mathematics



Current Adresses

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Personal Information

- **Date of Birth:** Oct 25, 1963
- **Citizenship:** Turkey

Education

- Ph.D. Cukurova University (Adana-Turkey)-1993: (Generalized Dedekind and Hardy sums).
- M.Sc. Cukurova University (Adana-Turkey)-1990: (Hermitian Matrix Inequalities).
- B.Sc. Cukurova University (Adana-Turkey)-1987.

Employment

- Member of the faculty, Department of Mathematics, Faculty of Science, University of Akdeniz since 2005
 - 2012 - Professor
 - 2007 - 2012 Associate Professor
 - 2005 - 2007 Assistant Professor
- Member of the faculty, Department of Mathematics, Faculty of Arts and Sciences, Mersin University(1993-2005)
 - 1993 - 2005 Assistant Professor
- Member of the faculty, Mersin Vocational High School, Cukurova University(1988-1993)
 - 1988 - 1993 Lecturer

Teaching

I have taught Mathematics at Cukurova University (1988-1993), Mersin University (1993-2005) and Akdeniz University since 2005. My courses include all undergraduate Mathematics courses, Calculus, Statistics and Probability, Real Analysis, Measure Theory, Complex Analysis.

Courses I taught include graduate Mathematics courses (PhD and Master), Theory of Elliptic Functions, Theory of Modular Forms, Theory of Modular group, Theory of Theta functions, Functional Analysis, Complex Analysis, p-adic Analysis, p-adic L-functions.

Current Research Interests

- Real and Complex Analysis
- Special numbers, Special Polynomials
- Generating Functions
- Special Functions
- Fractional Calculus and Its Applications
- Integral Equations and Transforms
- q-Series and q-Analysis
- Analytic Number Theory (Modular form and Elliptic functions, Dedekind and Hardy Sums, theta functions)
- p-adic analysis
- Umbral Algebra and Umbral Analysis
- Combinatorial Analysis and their applications
- Probability Distribution functions and their Applications

Awards

- Science Award, Akdeniz University Science, Service and Encouragement Awards, 2011.
- First Place Certificate in Akdeniz University, 2015 according to "Ranking of scientists in Turkish Institutions according to their Google Scholar Citations public profiles".
- Research Excellent Award, The 29th International Jangjeon Mathematical Society Conference, Pondicherry, INDIA, 2016 (with I. Kucukoglu).

Master Students

1. Cemal Taskın, Mersin University, 1997, On relations between Weierstrass P-functions, theta functions and Dedekind sums.
2. Yasemin Cetinkaya, Mersin University, 2002, P-adic Hardy sums.
3. Esra Karlık, Mersin University, 2004, Relations between Eisenstein series and Dedekind sums.
4. Nurcan Tepe, Mersin University, 2004, q-Bernoulli Polynomials and numbers.
5. Fulya Akgul, Mersin University, 2005, Teaching Series to highschool students.
6. Selin Selen Ozbek, Akdeniz University, 2009, Generating Functions of Bernoulli numbers.
7. Burak Kurt, Akdeniz University, 2009, Hermite Apostol-Bernoulli polynomials.
8. Rahime Dere, Akdeniz University, 2011, Generating functions of some special polynomials and their applications on umbral algebra.
9. Ülker Başar, Akdeniz University, 2015, Generating Functions and Applications of Central Factorial Numbers.

10. Hamida Amrani Aziza, Akdeniz University, 2015, Combinatorial sums and their applications in probability and statistics.
11. Neslihan Kılar, Akdeniz University, 2017, Fubini Tipli Sayılar ve Bunların Üreteç Fonksiyonları.
12. Zehra Selin Aşkan, Hilbert Matrisleri ve Hankel Determinantlarının Bazı Özel Polinom ve Sayıları ile İlişkileri,...
13. Damla Gün,...

Ph.D. Students

1. Hacer Özden, Akdeniz University and Uludag University, 2009, On p-adic q-measure and their applications.
2. Aykut Ahmet Aygüneş Akdeniz University, 2012, Hecke type operators and their application.
3. Burak Kurt, Akdeniz University, 2013, On multidimensional Hermite base Appell polynomials.
4. Rahime Dere, Akdeniz University, 2016, (q-) Umbral Calculus Sheffer type polynomials and their applications.
5. Elif Çetin, Akdeniz University and Uludag University, 2016, Some Special Finite Sums and their applications.
6. Gülşah Özdemir, Akdeniz University, 2017, Çok Değişkenli Fibonacci Tipli Polinomlar İçin Üreteç Fonksiyonları ve Uygulamaları.
7. İrem Küçükoğlu, Akdeniz University, Sonlu İleksikografikal sıralı alfabe üzerinde tanımlı kelimeler ve De Bruijn tipli dizileri içeren üreteç fonksiyonları ve bunların uygulamaları, 2018.
8. Neslihan Kılar, ...

Referee in the International Mathematical Journals

- 1) Journal of Mathematical Analysis and Applications
- 2) Journal of Computational and Applied Mathematics
- 3) Applied Mathematics Letters
- 4) Computers & Mathematics with Applications
- 5) Discrete Applied Mathematics
- 6) International Journal of Mathematics and Mathematical Sciences
- 7) Journal of Difference Equations and Applications
- 8) Advances in Difference Equations
- 9) Acta Arithmetica
- 10) Glasgow Mathematical Journal
- 11) Rocky Mountain Journal of Mathematics
- 12) Journal of the Korean Mathematical Society
- 13) Abstract and Applied Analysis
- 14) Journal of Inequalities and Applications
- 15) International Journal of Computer Mathematics
- 16) Advanced Studies in Contemporary Mathematics
- 17) Proceedings of the Jangjeon Mathematics Society
- 18) Bulletin of the Korean Mathematical Society
- 19) Hacettepe Journal of Math. and Stat.
- 20) Bulletin of the Malaysian Mathematical Society
- 21) Integral Transforms and Special Functions
- 22) Banach Journal of Mathematics(BJM)
- 23) Discrete Dynamics in Nature and Society
- 24) Numerical Analysis and Applied Mathematics (ICNAAM)
- 25) Indian Journal of Mathematics (IJM)/Bulletin of the Allahaba Mathematical Society (BAMS)
- 26) African Journal of Mathematics and Computer Science Research (AJMCSR)
- 27) Selçuk Journal of Applied Mathematics
- 28) IST Transactions of Applied Mathematics-Modeling and Simulation (AMMS)
- 29) Journal of Applied Mathematics and Computing
- 30) Bulletin of Mathematical Analysis and Applications
- 31) International Journal of Applied Mathematics and Statistics
- 32) Asian-European Journal of Mathematics (AEJM).
- 33) Ars Combinatoria
- 34) NSA Mathematical Sciences USA.

- 35) British Journal of Math. & Comp. Science
- 36) Journal of Engineering and Technology Research
- 37) Mathematical and Computer Modelling
- 38) Advanced Research in Pure Mathematics
- 39) Applicable Analysis and Discrete Mathematics
- 40) Science Journal of Mathematics and Statistics
- 41) International Journal of Biomedical Imaging
- 42) Boletim da Sociedade Paranaense de Matemática
- 43) Complex Analysis and Operator Theory
- 44) International Journal of Computer Mathematics
- 45) Journal of Applied Mathematics and Informatics
- 46) Journal of Function Spaces and Applications
- 47) Journal of Integer Sequences
- 48) Acta Scientiarum Technology
- 49) Acta Mathematica Sinica, English Series
- 50) ISRN Combinatorics
- 51) Filomat
- 52) Journal of Classical Analysis
- 53) Iranian Journal of Mathematical Sciences and Informatics
- 54) Tokyo J. of Mathematics
- 55) Fixed Point Theory and Applications
- 56) Boundary Value Problems
- 57) Kyungpook Mathematical Journal
- 58) Journal of Applied Mathematics and Computing
- 59) Thai Journal of Mathematics
- 60) Arab Journal of Mathematical Sciences
- 61) International Journal of Mathematical Analysis
- 62) Lithuanian Mathematical Journal
- 63) Maejo International Journal of Science and Technology
- 64) Ilirias journal of mathematics
- 65) The Scientific World Journal
- 66) SpringerPlus
- 67) Journal of Applied Mathematics and Physics (JAMP)
- 68) Journal of New Theory
- 69) Iranian Journal of Science and Technology, Transaction-A
- 70) Sinop Üniversitesi Fen Bilimleri Dergisi
- 71) Karbala International Journal of Modern Science
- 72) Turkish Journal of Mathematics
- 73) Cogent mathematics
- 74) Jordan Journal of Mathematics and statistics

Editors/Editorial Boards in the International Mathematical Journals

- 1) **Mathematical Methods in the Applied Sciences**
<https://onlinelibrary.wiley.com/journal/10991476>
- 2) **Journal of Inequalities and Applications**
<https://journalofinequalitiesandapplications.springeropen.com/>
- 3) **FILOMAT** <http://journal.pmf.ni.ac.rs/filomat/filomat/about/editorialTeam>
- 4) **Journal of Applied Mathematics and Informatics The Korean Society for Computational and Applied Mathematics (KSCAM)** <http://jami.or.kr/>
- 5) Member of the Editorial Board of **Journal of Intelligent System Research** (JISR) ISSN : 0975-6205; http://serialsjournals.com/editorial-board.php?journals_id=275
- 6) Member of the Editorial Board of **Journal of Analysis and Computation** ISSN : 0972-2861

http://serialsjournals.com/editorial-board.php?journals_id=205

- 7) Member of the Editorial Board of **Advanced Studies in Contemporary Mathematics** (ASCM) <http://jangjeonopen.or.kr/index.php>
- 8) Member of the Editorial Board of **Proceedings of the Jangjeon Mathematical Society**(SCOPUS, KCI Journal) <http://jangjeonopen.or.kr/index.php>
- 9) Member of the Editorial Board of **IST Transactions of Applied Mathematics-Modeling and Simulation** <http://www.istpress.com/journalInformation/view/AMMS.html>
- 10) Member of the Editorial Board of **IST Transactions of Computer Vision Systems-Theory and Applications** <http://www.istpress.com/journalInformation/view/CVSTA.html>
- 11) Member of the Editorial Board of **Journal of Inequalities and Special Functions**, <http://91.187.98.171/ilirias/jiasf/index.html>
- 12) Research in Applied Mathematics, ISSN: 2357-0482
- 13) Member of the Editorial Board of **Selcuk Journal of Applied Mathematics** <http://www.sumam.selcuk.edu.tr/nsjam.htm>
- 14) International Journal of Mathematics & Statistics, (Editor in Chief); <http://www.noblesci.com/math.html>
- 15) Guest Editor in Symmetry <https://www.mdpi.com/journal/symmetry>
- 16) Guest Editor in Advances in Difference Equations(2011)
- 17) Guest Editor in International Journal of Mathematics and Mathematical Sciences(2012)
- 18) Guest Editor of DDNS Special Issue on "Complex Dynamics, Fractional Calculus, Various Polynomials, and Zeta Functions Applied in Nature and Society" Hindawi Publishing Corporation(2015)
- 19) The Scientific World Journal; (up to 2015) <http://www.hindawi.com/journals/tswj/editors/mathematical.analysis/> **
- 20) Member of the Editorial Board of **ISRN Combinatorics** (up to 2015) http://www.isrn.com/journals/combinatorics/editors/**

Other Reviewer activities

- 1) Reviewer for The Zentralblatt MATH : <http://www.emis.de/ZMATH>
- 2) Reviewer for Mathematical Reviews <https://mathscinet.ams.org/mathscinet/search/author.html?mrauthid=331420>

Organizing of Conferences

- 1) Mediterranean International Conference of Pure&Applied Mathematics and Related Areas since 2018
- 2) The International Conference of the Jangjeon Mathematical Society since 2003
- 3) Symposium on Generating Functions of Special Numbers and Polynomials and their Applications (GFSNP2019) since 2011.

Participated Mevlana Programs

- 1) On generating functions of the special numbers and polynomials I; RUSSIA; May 18, 2014; Tomsk State University of Control Systems and Radioelectronic
- 2) On generating functions of the special numbers and polynomials I; RUSSIA; May 19, 2014; Tomsk State University of Control Systems and Radioelectronic
- 3) On generating functions of the special numbers and polynomials II; RUSSIA; May 21, 2014; Tomsk State University of Control Systems and Radioelectronic
- 4) Central Factorial numbers, Stirling Numbers and Array polynomials; RUSSIA; May 22, 2014; Tomsk State University of Control Systems and Radioelectronic
- 5) On generating function for the Bernstein polynomials and applications; RUSSIA; May 23-25, 2014; Tomsk State University of Control Systems and Radioelectronic

Participated Erasmus Programs

- 1) Erasmus+ Seminars and Lectures, Paris, FRANCE; September, 2017; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 2) On Generating functions of the Bernstein polynomials; ROMANIA; October 25, 2013; 1 Decembrie 1918 University Of Alba Iulia
- 3) On interpolation functions of the unification Bernoulli numbers; ROMANIA; October 26, 2013; 1 Decembrie 1918 University Of Alba Iulia
- 4) Reciprocity Law of $Y(h,k)$ Sums related to Cauchy Residue Theorem; ROMANIA; October 28, 2013; 1 Decembrie 1918 University Of Alba Iulia
- 5) Recent development on p-adic L-functions; ROMANIA; October 29, 2013; 1 Decembrie 1918 University Of Alba Iulia
- 6) On p-adic Measure and their applications; ROMANIA; October 30, 2013; 1 Decembrie 1918 University Of Alba Iulia
- 7) Erasmus Seminars on History of the Generating Functions of Special Numbers; Paris, FRANCE; May 31, 2010; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 8) Erasmus Seminars on Bernoulli numbers and their generating functions; Paris, FRANCE; June 1, 2010; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 9) Erasmus Seminars on Interpolation functions of the Bernoulli numbers; Paris, FRANCE; June 2, 2010; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 10) Erasmus Seminars on Modular forms and applications; Paris, FRANCE; June 3, 2010; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 11) Erasmus Seminars on Hecke operators and Dedekind eta functions and applications; Paris, FRANCE; June 4, 2010; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 12) Generating functions for the special numbers and polynomials and their applications; Debrecen, HUNGARY; June 05-12, 2008; Debrecen University, Hungary
- 13) Erasmus Seminars on Special Numbers; HUNGARY; May 6-12, 2006; Debrecen University, Hungary

Visiting Professor

- 1) On Beta polynomials related the Distribution functions; Pittsburgh, USA; July 19, 2015 ve July 25, 2015; University of Pittsburgh, Pittsburgh, USA
- 2) Scientific Research on Modular Forms, Hecke Operators, Generating functions and Dedekind sums; Paris, FRANCE; June 18, 2013 ve July 12, 2013; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France

- 3) Seminars on Generating functions for Bernstein Type Polynomials and Their Applications; Pittsburgh, USA; Jan 11, 2013; University of Pittsburgh, Pittsburgh, USA
- 4) Jacobi Modular forms and Elliptic Dedekind Sums; Paris, FRANCE; May 31-July 2, 2010; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 5) Seminars on p-adic q-L- functions and their applications, Modular Forms, Hecke Operators, Generating functions and Dedekind sums; Paris, FRANCE; June 01, 2010 ve July 30, 2010; Université d'Évry Val d'Essonne, Département de Mathématiques, Evry Cedex Paris, France
- 6) Twisted p-adic L-functions; Daejon, S. KOREA; July 24-27, 2008; National Institute for Mathematical Sciences Daejon, S.Korea
- 7) On p-adic two variable L-function; Seoul, S. KOREA; August 02-06, 2008; Kwangwoon University Seoul, S.Korea
- 8) On Fourier series of the Euler function; Seoul, S. KOREA; August 02-06, 2008; Kwangwoon University Seoul, S.Korea
- 9) Bernoulli numbers and polynomials and their applications; INDIA; February 2, 2007; University of Mysore, INDIA
- 10) q-Bernoulli numbers and polynomials associated with q-Riemann Zeta functions and q-Dirichlet L-functions; Jeonbuk, S.Korea; July 5, 2006; Woosuk University Jeonbuk, S.Korea
- 11) p-adic Hardy Sums, p-adic Dedekind sums and related areas; Kongju National University Kongju, S. KOREA; July 14, 2004 ve August 14, 2004; Kongju National University Kongju, S.Korea
- 12) Historical Dedekind sums and related some properties; Kongju, S. KOREA; July 26, 2004; Kongju National University Kongju, S.Korea
- 13) Reciprocity law of Dedekind and Hardy sums; Daejon, S. KOREA; July 22, 2004; KAIST (Korean Advanced Institute of Science and Technology) Daejon, S.Korea
- 14) Hardy sums; S. KOREA; August 12, 2004; Kyungpook National University, S.Korea

Participated National Conferences

- 1) III. National Mathematics Symposium, August 20-24, 1990, Van-Turkey.
- 2) IV. National Mathematics Symposium, September 2-6, 1991, Hatay-Turkey.
- 3) XIII. National Mathematics Symposium, September 19-23, 1995, Adana-Turkey.
- 4) X. National Mathematics Symposium, September 1-5, 1997, Bolu-Turkey.
- 5) XI. National Mathematics Symposium, September 7-11, 1998, Isparta-Turkey.
- 6) XIV. National Mathematics Symposium, September 19-21, 2001, Eskişehir-Turkey.
- 7) XV. National Mathematics Symposium, September 4-7, 2002, Mersin-Turkey.
- 8) XXIV. National Mathematics Symposium, September 7-10 Eylül 2011 Uludag University Bursa-Turkey.
- 9) Karataş D., Şimşek Y., Ümit Talas D. , Siğirci M. , Göçer P. , Kara E., "İnsan Ve Mimaride Altın Oran: Kokleanin Morfometrik Analizine Bakış", 34. Turkish National Ear, Nose and Throat and Head Surgery , ANTALYA, TÜRKİYE, 10-14 Ekim 2012.
- 10) Y. Simsek, Functional equations for generating functions of the Bernstein basis functions, (26th National Mathematics Symposium) 26. Ulusal Matematik Sempozyumu 04-07 Eylül 2013 Diyarbakır
- 11) Y. Simsek, Special Numbers and polynomials associated with the Analytic Functions, 27th National Mathematics Symposium (27. Ulusal Matematik Sempozyumu (UMS2014)) 26-29 Ağustos 2014 Yeditepe Üniversitesi-Istanbul
- 12) Bernstein tipli baz fonksiyonları ve bunların simülasyonu üzerine(I. Kucukoglu), Çift değişkenli Fibonacci tipli polinomlar ailesi için üreteç fonksiyonları ve uygulamaları (G. Ozdemir), 28. Ulusal Matematik Sempozyumu (UMS2015)) 07-09 Eylül 2015 Akdeniz University-Antalya
- 13) Y. Simsek, "Kuvvetli Euler Sayıları ve bunların üreteç fonksiyonları üzerine", 29. Ulusal Matematik Sempozyumu, MERSİN, TURKEY, 28-31 Ağustos 2016, ss.1-1

Participated International Conferences

- 1) Y. Simsek, "Applications And Observations For Bezier Curves Involving Bernstein Polynomials" and "Some Formulas Related to Generating Functions Including Trigonometric Functions" with N. Kilar, International Symposium On Advanced Engineering Technologies 2-04 May 2019 Kahraman Maras Turkey
- 2) Y. Simsek, "Integral representations of generating functions for combinatorial numbers and polynomials" and "Special numbers arised from trigonometric and hyperbolic functions", with N. Kilar Mediterranean International Conference of Pure&Applied Mathematics and Related Areas (MICOPAM 2018), **Antalya-TURKEY**, 26-29 October 2018
- 3) Y. Simsek, "Remarks And Some Formulas Associated With Combinatorial Numbers" and "Some relationships between Fubini type polynomials and other special numbers and polynomials" with N. Kilar and "Recent development on mathematical models including human root dentin and the other applications" with K. Er 16th International Conference Of Numerical Analysis And Applied Mathematics (ICNAAM2018 2018 **Rhodes-GREECE**),
- 4) Y. Simsek, "Remarks on families of combinatorial numbers including generating functions and their applications" "49th Southeastern International Conference on Combinatorics, Graph Theory & Computing" Student Union at Florida Atlantic University in **Boca Raton, FL. USA** March 5–9, 2018.
- 5) Y. Simsek, "Applications Of Bernstein Polynomials Including Bezier Curvs And Structual Geology" and "Combinatorial Approach To Engineering Including Geology Problems" With I. Kucukoglu, 9th International Symposium on Eastrn Mediterranean Geology **Antalya-TURKEY** 07-11 May 2018
- 6) Y. Simsek, "Some special polynomials derive from Peters polynomials and their applications" and "Lambert and Dirichlet Series approach to deriving identities related to the numbers of special words" with I. Kucukoglu The 31st International Conference of The Jangjeon Mathematical Society (ICJMS2018), Kwangwoon University, **Seoul, SOUTH KOREA**, 2018, July 2-6.
- 7) Y. Simsek, "Relations between unification of the multidimensional Bernstein polynomials and p-adic integrals" International Congress of Mathematicians (ICM) **Rio de Janeiro, BRAZIL** on August 1st to 9th, 2018.
- 8) Y. Simsek, "Special finite sums including Dedekind sums, Hardy sums, the sum $Y(h,k)$: Approach to Eisenstein series and cotangent sums", International conference on Hypercomple Analysis amd Applications, 24-26 September 2018 **Erfurt-GERMANY**.
- 9) Y. Simsek, "Generating function for some special olynomials including Poisson-Charlier Hermite type Milne-Thomson type and the other polynomials and "Numerical evaluations on power series including the numbers of Lyndon words and interpolation functions for the Apostol-type polynomials", Apprximation and Computation Theory and Applications (ACTA2017), **Belgrade, SIRBISTAN**, 30 Kasim - 2 Aralik 2017, vol.1, no.1, pp.31-32 (with I. Kucukoglu)
- 10) Y. Simsek, "On a family of special numbers and special polynomials associated with Apostol type numbers and polynomials and other combinatorial sums", Théorie des Nombres et Applications, Valenciennes, **FRANCE**, 2-3 Kasim 2017, vol.1, no.1, pp.21-21
- 11) Y. Simsek, "Interpolation functions for the Apostol-type numbers and polynomials", 15th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2017), Thessalinoki, **GREECE**, 25-30 September 2017.

- 12) Y. Simsek, "Relations arising from combinatorial numbers and Bernstein-type basis functions", 15th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2017), Thessaloniki, **GREECE**, 25-30 September 2017 (with I. Kucukoglu).
- 13) Y. Simsek, "A new family of numbers and polynomials related to characters of finite abelian group", Caucasian Mathematics Conference II (CMC - II), VAN, **TURKEY**, 22-24 August 2017, pp.124-124.
- 14) Y. Simsek, "Combinatorial aspect for the special words", Caucasian Mathematics Conference II (CMC - II), VAN, **TURKEY**, 22-24 August 2017, pp.96-96 (with I. Kucukoglu).
- 15) Y. Simsek, "Combinatorial Applications of the Generating functions to the Lyndon words", The 30th International Conference of The Jangjeon Mathematical Society" (ICJMS2017), Algiers, **ALGERIA**, 12-15 July 2017, pp.94-96 (with I. Kucukoglu).
- 16) Y. Simsek, "p-adic q-Integrals approach to uniformly differentiable functions and their applications including special numbers and polynomial", 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
- 17) Y. Simsek, "Remarks and observations on (q-) Bernstein Basis functions", 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, pp.1926-1931.
- 18) Y. Simsek, "Generating functions for the Bernstein basis functions and their application to probability distributions and fractals", 2017, 6th Cornell Conference on Analysis, Probability, and Mathematical Physics on Fractals, Ithaca, **USA**, 13-17 June 2017, pp.17-18.
- 19) Y. Simsek, "On Parametrization Of The Q-Bernstein Basis Functions", International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), AYDIN, **TURKEY**, 11-15 May 2017, pp.189-189.
- 20) Y. Simsek, "A Note on the Numbers $Y_n(\lambda)$ and the Polynomials $Y_n(x; \lambda)$ and Their Generating Functions ", International Conference On Recent Advances In Pure And Applied Mathematics, Aydin, **TURKEY**, 11-15 May 2017, pp.129-129 (with I. Kucukoglu).
- 21) Y. Simsek, "Remarks and Observations on Some Special Arithmetical Sums", International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2017), AYDIN, **TURKEY**, 11-15 May 2017, pp.70-70 (with E. Cetin).
- 22) Y. Simsek, "Interpolation functions of the k-ary Lyndon words including Lerch-zeta type functions", International Conference On Mathematics And Engineering 2017, Istanbul, **TURKEY**, 10-12 May 2017, pp.156-156 (with I. Kucukoglu).
- 23) Y. Simsek, "Generating functions for special polynomials: analysis of the p-adic Volkenborn integral", International Conference On Mathematics And Engineering 2017, Istanbul, **TURKEY**, 10-12 May 2017, pp.140-140
- 24) Y. Simsek, "A note on array-type polynomials related to some special numbers and polynomials", International Conference On Mathematics And Engineering 2017, Istanbul, **Turkey**, 10-12 May 2017, pp.57-57 (with A. Bayad).
- 25) Y. Simsek, "Identities and Relations Associated with Lucas and Some Special Sequences", 14th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2016), Rhodes, **GREECE**, 12-18 September 2016, pp.1-4 (with Ozdemir G.)
- 26) Y. Simsek, "On k-ary Lyndon Words and their Generating Functions", 14th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2016) , Rhodes, **GREECE**, 19-25 September 2016, pp.1-4 (with Kucukoglu I.)
- 27) Y. Simsek, "On combinatorial type numbers related to some special numbers", 14th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM2016) , Rhodes, **GREECE**, 19-25 September 2016, pp.1-4.
- 28) Y. Simsek, Q-Bernstein Bases and Their Applications; and; Remarks and Observations on Bezier Type Curves and Their Some Applications (I. Kucukoglu), 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**.
- 29) Y. Simsek, "A Note On The Values Of The Twisted Barnes Zeta Functions And Their Applications", International Conference on Analysis and Its Applications and
"Some Identities Of The Humbert And Generalized Chebyshev Polynomials", International Conference on Analysis and Its Applications (with Ozdemir G.)
and
"Some Special Numbers And Polynomials Related To K-Ary Lyndon Words"(with Kucukoglu I.)

- International Conference on Analysis and Its Applications (ICAA-2016) , Kirşehir, **TURKEY**, 12-15 Temmuz 2016, pp.351-351
- Y. Simsek, "Central Factorial Type Numbers Associated With Averaging Operator", International Conference on Analysis and Its Applications (ICAA-2016) , KIRŞEHİR, **TURKEY**, 12-15 Temmuz 2016, pp.311-311
- 30) Y. Simsek, "Combinatorial applications of the special numbers and polynomials", The 14th International Conference on Permutation Patterns (PP 2016, Washington DC, **USA**, 27 Haziran - 1 Temmuz 2016, pp.116-120.
- 31) Y. Simsek, "Remarks On Combinatorial Numbers ", CIMPA Research School on "Number Theory and Applications, Tipaza, **ALGERIA**, 29 Mayıs - 2 Haziran 2016, pp.1-1
- 32) Y. Simsek, "A Note On Combinatorial Sums", International Conference on Diophantine Analysis and Related Topics, Wuhan, **CHINA**, 10-13 Mart 2016, pp.1-1
- 33) Y. Simsek, On Generating Functions for the Special Polynomials, The 23rd International Conference on Finite or Infinite Dimensional Complex Analysis and Applications, 24-28 August 2015 Kyushu Sangyo University, Fukuoka, **JAPAN**.
- 34) Y. Simsek, On generating functions for special numbers and polynomials and their applications, The 12th International Conference on Finite Fields and Their Applications 13-17 July 2015 Skidmore College Saratoga Springs NY **USA**.
- 35) Y. Simsek, A note on Stirling type numbers and Array type polynomials 29th Journées Arithmétiques 06-10 July 2015 Debrecen-**HUNGARY**.
- 36) Y. Simsek, Bernstein basis functions related to combinatorial sums involving binomial coefficients and special numbers; Unification of the B-Splines by using generating functions for the Bernstein basis (I. Kucukoglu); and; On Generating Functions For Jacobsthal and Fibonacci Polynomials of Higher Order (G. Ozdemir), The 28th International Conference of the Jangjeon Mathematical Society 15-19 May 2015 Sherwood Club Kemer Hotel Antalya **TURKEY**.
- 37) Y. Simsek, "Remarks on Bezier type curves and their applications to Geology", 30th International Conference on "Ore Potential of Alkaline, Kimberlite and Carbonatite Magmatism" 29 September-02 October 2014, Harrington Park Resort Hotel Antalya, **TURKEY**.
- 38) Y. Simsek, "Remarks on the Beta polynomials", International Conference on Advances in Applied Mathematics and Mathematical Physics: 19-21 August 2014, Yildiz Technical University Istanbul, **TURKEY**.
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PROJECTS

- 1) FYL-2019-4927, Hilbert Matrisleri ve Hankel Determinantlarının Bazı Özel Polinom ve Sayıları ile İlişkileri, Project start date: 09.05.2019.
- 2) FYD-2019-4663, Generating functions for unification of the multidimensional Bernstein polynomials and their applications, Project start date: 14.01.2019, Project end date: 14.01.2021.
- 3) FKA-2019-4385, Bazı özel kelimeler ve diziler ile q tipli ortogonal polinomların ilişkileri ve bunların hesaplamalı algoritmaları, Project start date: 17.01.2019, Project end date: 18.01.2021.
- 4) FYD-2018-4365, Construction Method For Generating Functions Of Special Numbers And Polynomials Arising From Analysis Of New Operators, Project start date: 24.12.2018, Project end date: 24.12.2020.
- 5) FBA-2018-3292, Lyndon kelimelerinin sayılarını ve kombinatorik toplamları içeren kuvvet serilerinin inşası ve bunların hesaplamalı algoritmaları, Project start date: 22.02.2018, Project end date: 22.08.2019.
- 6) FYD-2018-3354, Computation Methods For Combinatorial Sums And Euler Type Numbers Related To New Families Of Numbers, Project start date: 19.02.2018, Project end date: 19.02.2020.
- 7) FYS-2018-2980, Yayın Süreklilik Desteği, Project start date: 04.01.2018, Project end date: 06.01.2020.
- 8) FYS-2017-2985, Yayın Süreklilik (YSD)2012-2017, Project start date: 20.11.2017, Project end date: 20.11.2019.
- 9) FDK-2017-2733, Grup Halkaları Üzerindeki Bazı Modüllerin Grup Ile Olan İlişkileri, Project start date: 22.06.2017, Project end date: 22.06.2019.
- 10) FYD-2017-2556, A Sequence of Modular Forms Associated with HigherOrder Derivatives of WeierstrassType Functions, Project start date: 12.04.2017, Project end date: 12.04.2019.
- 11) FYD-2017-1685, A Novel Architecture For DataRepeaters In The Future Internet, Project start date: 14.03.2017, Project end date: 14.03.2019.
- 12) FYD-2016-1376, Analysis of the Bernstein basis functions an approach to combinatorial sums involving binomial coefficients and Catalan numbers Analysis of the Bernstein basis functions

- an approach to combinatorial sums involving binomial coefficients and Catalan numbers, Project start date: 26.02.2016, Project end date: 26.02.2019.
- 13) FYS-2017-2549, Bilim İnsanı Yetiştirme ve Geliştirme Projesi, Project start date: 12.04.2017, Project end date: 02.11.2018.
 - 14) FDK-2017-2375, Sonlu leksikografikal sıralı alfabe üzerinde tanımlı kelimeler ve De Bruijn tipli dizileri içeren üreteç fonksiyonları ve bunların uygulamaları, Project start date: 14.04.2017, Project end date: 02.11.2018.
 - 15) FDK-2017-2386, Çok Değişkenli Fibonacci Tipli Polinomlar İçin Üreteç Fonksiyonları ve Uygulamaları, Project start date: 14.04.2017, Project end date: 15.12.2017.
 - 16) FYL-2017-2377, Fubini Tipli Sayılar ve Bunların Üreteç Fonksiyonları, Project start date: 14.04.2017, Project end date: 15.12.2017.
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 - 19) FYS-2016-1378, Tip-2 10 adet Yayın Süreklilik desteği, Project start date: 25.01.2016, Project end date: 30.12.2016.
 - 20) FYS -2015-528, Yayın Süreklilik Desteği, Project start date: 08.01.2015, Project end date: 30.12.2016.
 - 21) FYD-2015-269, Modification and unification of the Apostoltype numbers and polynomials and their applications , Project start date: 05.01.2015, Project end date: 02.11.2018.

Seminars-Lectures

- 1) "Generating Functions For The Bernstein Type Polynomials And Their Applications" **University of Pittsburgh-USA**, 11 January 2013.
- 2) Look at the history of numbers and the mystery of Bernoulli Numbers Conference at Adiyaman University **Adiyaman-Turkey**, at 28 December, 2009.
- 3) On Generalized Hardy Sums at Akdeniz University **Antalya** 2009.
- 4) Twisted p-adic l-functions, Visiting Research at National Institute for Mathematical Sciences **Daejon, S. Korea** on July 24-27, 2008.
- 5) Applications of q-Calculus at Akdeniz University **Antalya-Turkey** 2008.
- 6) Seminars on "p-adic Fourier Analysis" at Kwangwoon University **Seoul, S. Korea** on August 02-06, 2008.
 - a) On p-adic two variable l-function
 - b) On fourier series of the Euler function
- 7) Bernoulli numbers and polynomials and their applications, Special Lecture at University of **Mysore-India** on February 2, 2007.
- 8) q-Bernoulli numbers and polynomials associated with q-Riemann zeta functions and q-Dirichlet l-functions, Special Lecture at Woosuk University **Jeonbuk- S.Korea** on 5 July, 2006.
- 9) Seminars on Special Numbers at Debrecen University **Hungary** on 6-12 May 2006.
- 10) Transformation of four Titchmarsh-type infinite integrals and generalized Dedekind sums associated with Lambert series, Special Lecture with Professor S. Yang at Sutherland Avenue North Vancouver **CCCS&CECM, Canada** on August 23, 2005.
- 11) Seminars on "p-adic Hardy Sums, p-adic Dedekind sums and related areas" at Kongju National University **Kongju, S. Korea** on 14-07, 2004 and 14-08-2004.
- 12) Historical Dedekind sums and related some properties, Special Lecture at at Kongju National University **Kongju, S. Korea** on 26-07, 2004.
- 13) Reciprocity law of Dedekind and Hardy sums, Special Lecture at KAIST (Korean Advanced Institute of Science and Technology) **Daejon, S. Korea** on 22-07, 2004.
- 14) Hardy sums, Special Lecture at Kyungpook National University, **S. Korea** on 12-08, 2004.
- 15) q-Carlitz Bernoulli Numbers, Mersin University Mersin-Turkey 2004.
- 16) Twisted Bernoulli Numbers, Mersin University Mersin-Turkey 2003.
- 17) On Generalized Dedekind sums, Mersin University Mersin-Turkey 2002.

- 18) Analytic continuation of q -Riemann zeta function, Mersin University Mersin-Turkey 2001.
- 19) Twisted Euler numbers, Mersin University Mersin-Turkey 2000.
- 20) On Hecke operator, Mersin University Mersin-Turkey 1994.
- 21) Hermitian Matrix Inequalities, Cukurova University Adana-Turkey 1989.

SPECIAL SEMINARS in 2008 with YILMAZ SIMSEK, TAEKYUN KIM, VELİ KURT, ISMAIL NACI CANGUL and HACER OZDEN at AKDENİZ UNIVERSITY ANTALYA TURKEY:

- 1) Y. Simsek, *Interpolations functions of the (h,q) -Euler numbers*, 23-01-2008, 10.00-11.00.
- 2) V. Kurt, *On Genocchi numbers and Polynomials*, 24-01-2008, 10.00-12.00.
- 3) T. Kim, *Lebesgue-Radon Nikodym theorem related to p -adic measure*, 24-01-2008, 14.00-16.00.
- 4) I. N. Cangul, *q - Quantum Calculus*, 25-01-2008, 10.00-11.00.
- 5) Y. Simsek, *On (h,q) - l -function*, 25-01-2008, 14.00-15.00.
- 6) T. Kim, *p -adic Kernel integral related to Feynman integral*, 26-01-2008, 10.00-11.00.
- 7) T. Kim, *On fermionic p -adic q -integrals*, 26-01-2008, 14.00-15.00.
- 8) T. Kim, *Applications of the fermionic p -adic q -integrals*, 28-01-2008, 10.00-11.00.
- 9) T. Kim, *On p -adic q - L functions related to the Volkenborn Integral*, 29-01-2008, 14.00-15.00.
- 10) T. Kim, *On open problems*, 30-02-2008, 10.00-11.00 and 14.00-15.00.
- 11) H. Ozden, *On p -adic q -measure*, 31-02-2008, 10.00-11.00.

SPECIAL SEMINARS in 2007 with YILMAZ SIMSEK , TAEKYUN KIM, VELİ KURT, ISMAIL NACI CANGUL and HACER OZDEN at AKDENİZ UNIVERSITY ANTALYA TURKEY:

- 1) Y. Simsek, *p -adic q -zeta functions and L -functions(p -adic q zeta functions and L -functions)* 26-01-2007, 10.00-11.00.
- 2) V. Kurt, *On poli q -Genocchi numbers*, 27-01-2007, 14.00-15.00.
- 3) T. Kim, *On p -adic numbers and functions*, 29-01-2007, 10.00-11.00 and 14.00-13.00.
- 4) Y. Simsek, *On twisted p -adic Dedekind Sums*, 30-01-2006, 14.00-15.00.
- 5) T. Kim, *p -adic q -Deform Volkenborn Integral and q - Changhee numbers and Functions*, 31-01-2007, 10.00-11.00.
- 6) T. Kim, *Generating functions of the q - Daehee numbers and polynomials*, 01-02-2006, 14.00-15.00.
- 7) V. Kurt, *On Dedekind sums*, 02-02-2007, 10.00-11.00.
- 8) T. Kim, *On p -adic fermionic q -Volkenborn Integral and its applications*, 02-02-2007, 14.00-15.00.
- 9) T. Kim, *p -adic Laplace Transform and their applications*, 03-02-2007, 10.00-11.00 ve 14.00-15.00.
- 10) M. Cenkci, *p -adic deformed integral*, 04-02-2007, saat 10.00-11.00.
- 11) M. Can, *p -adic Hardy Sums*, 04-02-2007, 14.00-15.00.

SPECIAL SEMINARS in 2006 with YILMAZ SIMSEK, TAEKYUN KIM, VELİ KURT, ISMAIL NACI CANGUL and HACER OZDEN at AKDENİZ UNIVERSITY ANTALYA TURKEY:

- 1) Y. Simsek, *q -Dedekind type sums related to q -zeta functions*, 23-01-2006, 10.00-11.00.
- 2) V. Kurt, *On high dimension of Bernoulli numbers*, 23-01-2006, 14.00-15.00.
- 3) T. Kim, *On p -adic numbers and functions*, 24-01-2006, 10.00-11.00 and 14.00-13.00.
- 4) N. Unal, *Relations between p -adic q -numbers and Quantum Groups*, 25-01-2006, 10.00-11.00.
- 5) Y. Simsek, *On twisted Euler numbers and twisted l -series*, 25-01-2006, 14.00-15.00.
- 6) T. Kim, *On Multiple p -adic q - Changhee numbers and Functions*, 26-01-2006, 10.00-11.00.
- 7) T. Kim, *On Multiple p -adic q - Daehee numbers and Functions*, 26-01-2006, 14.00-15.00.
- 8) V. Kurt, *On q -Genocchi numbers and q -Genocchi functions*, 27-01-2006, 10.00-11.00.
- 9) T. Kim, *On p -adic q -Volkenborn Integral*, 27-01-2006, 14.00-15.00.
- 10) T. Kim, *Generating Functions of Special Functions*, 01-02-2006, 10.00-11.00 and 14.00-15.00.

SPECIAL SEMINARS in 2006 with YILMAZ SIMSEK , AKOS PINTER, VELI KURT, ISMAIL NACI CANGUL, MEHMET CENKCI, MUMIN CAN and HACER OZDEN at AKDENİZ UNIVERSITY ANTALYA TURKEY:

- 1) Y. Simsek (Akdeniz University-Antalya TURKEY), *Generating Functions of the q -Bernoulli Numbers* 04-07-2007, 10.00-11.00.
- 2) V. Kurt (Akdeniz University-TURKEY), *On Euler and Bernoulli numbers and Polynomials*, 05-07-2007, 10.00-11.00.
- 3) Akos Pinter (Debrecen University-HUNGARY), *Diophantine equations and Bernoulli polynomials*, 06-07-2007, 10.00-11.00 and 14.00-15.00.
- 4) M. Cenkci (Akdeniz University-TURKEY), *Interpolation function of Euler Numbers*, 07-07-2007, 10.00-11.00.
- 5) Y. Simsek (Akdeniz University-TURKEY), *On q -twisted Euler numbers*, 08-07-2007, 10.00-11.00.
- 6) A. Pinter (Debrecen University-HUNGARY), *Generating functions of the incomplete Fibonacci and Lucas numbers*, 09-07-2007, 10.00-11.00.
- 7) A. Pinter (Debrecen University-HUNGARY), *Almost perfect powers in products of consecutive integers*, 11-07-2007, 10.00-11.00.
- 8) V. Kurt (Akdeniz University-Bursa TURKEY), *On q -Genocchi polynomials*, 12-07-2007, 10.00-11.00.
- 9) H. Ozden (Uludag University-Bursa TURKEY), *Relation between generating function of the Bernoulli numbers and p -adic q -Volkenborn Integral*, 13-07-2007, 10.00-11.00.
- 10) M. Can (Akdeniz University-TURKEY), *Generating Functions of Special Functions and Their applications*, 14-07-2007, 10.00-11.00.
- 11) I. N. Cangul (Uludag University-Bursa TURKEY), *On Elliptic Curves*, 15-07-2007, 10.00-11.00.

Workshops

- 1) p -Adic q -Analysis and Its Applications at Akdeniz University, **Antalya-TURKEY**, between 23-01-2008 and 01-02-2008.
- 2) On p -adic analysis and its applications at Kyungpook National University, **S. KOREA** on 16-28 July 2008.
- 3) Mathematical methods in applied sciences at Uludag University **Bursa-TURKEY** on May 22-23, 2008.
- 4) On p -adic analysis and its applications at Kyungpook National University, **S. KOREA** on 16-28 July 2007.
- 5) p -adic q -special functions at Kyungpook National University 24-01-2005 and 07-02-2005, **S. KOREA**.
- 6) 2005 Algebraic geometry-number theory camp at Kaist on 1-5 February 2005, **Daejon-S. KOREA**.
- 7) On p -adic analysis and q -special functions, 11-14 July 2005 Uludag University, **Bursa-TURKEY**.
- 8) p -adic measure, p -adic integral and p -adic dirichlet series, Kongju National University Kongju, **S. KOREA** on 26-30 July 2004.
- 9) Analysis and its applications at Mersin University - **TURKEY**, 1-5 September 2004.
- 10) Modular forms at Mersin University, **TURKEY**, 1-20 July 2001.

