

## ÖZGEÇMİŞ

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#### **Eğitim Bilgileri**

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Doktora: Gazi Üniversitesi Matematik Bölümü 2003-2006

Yüksek Lisans: Gazi Üniversitesi Matematik Bölümü 2001-2003

Lisans: Ankara Üniversitesi Matematik Bölümü 1995-1999

Lise: Ankara Kurtuluş Lisesi 1994-1998

Orta Okul: Ankara Kurtuluş Orta Okulu

İlkokul: Ankara Mithatpaşa İlkokulu

#### **Çalışma Konuları**

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Ayrık Matematik, Matris Teori, Kombinatorik, Q-kalkülüs

## Akademik Ünvanlar

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Haziran 2014 - Halen, Profesör, TOBB Ekonomi ve Teknoloji Üniversitesi, Ankara Türkiye

Ocak 2009 - Haziran 2014, Doçent Doktor, TOBB Ekonomi ve Teknoloji Üniversitesi, Ankara Türkiye

Ocak 2008 - Mayıs 2008, Ziyaretçi Bilimadamı, Massachusetts Institute of Technology, Cambridge, Amerika

Temmuz 2007 - Ocak 2009, Yardımcı Doçent Doktor, TOBB Ekonomi ve Teknoloji Üniversitesi, Ankara Türkiye

Ağustos 2006 - Temmuz 2007, Öğretim Görevlisi, TOBB Ekonomi ve Teknoloji Üniversitesi, Ankara Türkiye

Şubat 2002 - Ağustos 2006, Araştırma Görevlisi, Gazi Üniversitesi, Ankara Türkiye

## Uluslararası Bilimsel Dergi Editörlükleri

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### **A) *SCI İndeksli Web of Science'da taranan dergilerde bulunan Editörlükler***

1. Turkish Journal of Mathematics, Editor, 2015 - Halen
2. Bulletin of the Malaysian Mathematical Sciences Society (BMMS), Editor, 2015 - Halen

### **B) *Alan İndeksli dergilerde bulunan Editörlükler***

3. ISRN Combinatorics, Editor, 2012 - Halen
4. International Journal of Physics and Mathematical Sciences, Editor, 2011 - Halen
5. European Journal of Pure and Applied Mathematics, Editor, 2009 - Halen

## Bilimsel Üyelikler

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1. Ankara Matematik Günleri 2017, Bilim Kurulu Üyeliđi, Hacettepe Üniversitesi, Ankara 2017
2. Lebanese International Conference on Mathematics and Applications (LICMA'17), Bilim Kurulu Üyeliđi, Beirut, 2017
2. Lebanese International Conference on Mathematics and Applications (LICMA'15), Bilim Kurulu Üyeliđi, Beirut, 2015
3. XII. Matematik Sempozyumu, Bilim Kurulu Üyeliđi ve Program Komite Üyeliđi, Hacettepe Üniversitesi, Ankara, 2013
4. XI. Matematik Sempozyumu, Bilim Kurulu Üyeliđi, Ondokuz Mayıs Üniversitesi, Samsun, 2012
5. X. Matematik Sempozyumu, Bilim Kurulu Üyeliđi, Işık Üniversitesi, İstanbul, 2011
6. V. Ankara Matematik Günleri, Bilim Kurulu Üyeliđi, TOBB ETU, Ankara 2010
7. American Mathematical Society

1. D. Taşcı and E. Kılıç, On the order- $k$  generalized Lucas numbers, *Applied Mathematics Computation* 155 (3) (2004), 637–641.
2. E. Kılıç and D. Taşcı, On the generalized order- $k$  Fibonacci and Lucas numbers, *Rocky Mountain Journal of Mathematics* 36 (6) (2006), 1915–1926.
3. E. Kılıç and D. Taşcı, The linear algebra of the Pell matrix, *Bulletin of the Mexican Mathematical Society* 2 (11) (2005), 163–174.
4. E. Kılıç, B. Altunkaynak and D. Taşcı, On the computing of the generalized order- $k$  Pell numbers in log time, *Applied Mathematics Computation* 181 (1) (2006), 511–515.
5. E. Kılıç and D. Taşcı, The generalized Binet formula, representation and sums of the generalized order- $k$  Pell numbers, *Taiwanese J. Math.* 10 (6) (2006), 1661–1670.
6. E. Kılıç and D. Taşcı, Factorizations and representations of the backward second order linear recurrences, *J. Comput. Appl. Math.* 201 (1) (2007), 182–197.
7. E. Kılıç, The generalized order- $k$  Fibonacci-Pell sequence by matrix methods, *J. Comput. Appl. Math.* 209 (2) (2007), 133–145.
8. E. Kılıç, Sums of generalized Fibonacci numbers by matrix methods, *Ars Combinatoria*, 84 (2007), 23–31.

9. E. Kılıç and D. Taşcı, On the permanents of some tridiagonal matrices with applications to the Fibonacci and Lucas numbers, *Rocky Mountain Journal of Mathematics* 37 (6) (2007), 203–219.
10. E. Kılıç and D. Taşcı, On sums of second order linear recurrences by hessenberg matrices, *Rocky Mountain Journal of Mathematics* 38 (2) (2008), 531–544.
11. E. Kılıç, Sums of the squares of terms of sequence  $\{U_n\}$ , *Proc. Indian Acad. Sci.* 118 (1) (2008), 27–41.
12. E. Kılıç, The Binet formula, sum and representations of generalized Fibonacci  $p$ -numbers, *European Journal of Combinatorics* 29 (3) (2008), 701–711.
13. E. Kılıç, Explicit formula for the inverse of a tridiagonal matrix by backward continued fractions, *Applied Mathematics Computation* 197 (1) (2008), 345–357.
14. E. Kılıç, Formulas for sums of generalized order- $k$  Fibonacci type, *Ars Combinatoria* 86 (2008), 395–402.
15. E. Kılıç, Tribonacci sequences with certain indices and their sums, *Ars Combinatoria* 86 (2008), 13–22.
16. E. Kılıç and M. El-Mikkawy, A computational algorithm for special  $n^{\text{th}}$  order pentadiagonal Toeplitz determinants, *Applied Mathematics Computation* 199 (2) (2008), 820–822.
17. E. Kılıç, On a constant-diagonals matrix, *Applied Mathematics Computation* 204 (1) (2008), 184–190.
18. E. Kılıç and D. Tasci, Generalized order- $k$  Fibonacci and Lucas functions, *Rocky Mountain Journal of Mathematics* 38 (6) (2008), 1991–2007.

19. E. Kılıç and N. Irmak, Reciprocal sums of  $l$ -th power of generalized binary sequences with indices, *Ars Combintoria* 88 (2008), 407–413.
20. E. Kılıç, On the usual Fibonacci and generalized order- $k$  Pell numbers, *Ars Combinatoria* 88 (2008), 33–45.
21. E. Kılıç, G. N. Stanica and P. Stanica, Spectral properties of some combinatorial matrices, *Congressus Numerantium Vol. 201, Proc. International Conf. Fibonacci Numbers & Applications* (2010), 223–236.
22. E. Kılıç and D. Tasci, On families of bipartite graphs associated with sums of Fibonacci and Lucas numbers, *Ars Combinatoria* 89 (2008), 31–40.
23. E. Kılıç and P. Stanica, Generating matrices for weighted sums of a second order linear recurrence, *Journal of Integer Sequences* 12 (2009) Article 09.2.7.
24. E. Kılıç, On the second order linear recurrences by tridiagonal matrices, *Ars Combinatoria* 91 (2009), 11–18.
25. E. Kılıç, The generalized Pell  $(p, i)$ - numbers and their Binet formulas, combinatorial representations, sums, *Chaos, Solitons and Fractals* 40 (2009), 2047–2063.
26. E. Kılıç and A.P. Stakhov, On the Fibonacci and Lucas  $p$ -numbers, their sums, families of bipartite graphs and permanents of certain matrices, *Chaos, Solitons and Fractals* 40 (2009), 2210–2221.
27. E. Kılıç, N. Ömür, G. Tatar and Y. Ulutaş, Factorizations of the Pascal matrix via generalized

second order recurrent matrix, Hacettepe Journal of Mathematics and Statistics 38 (3) (2009), 305–316.

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30. E. Kılıç, More general identities involving the terms of  $\{W_n(a,b;p,q)\}$ , *Ars Combinatoria* 93 (2009), 459–461.
31. E. Kılıç and P. Stanica, Factorizations and representations of second order linear recurrences with indices in arithmetic progressions, *Bulletin of the Mexican Mathematical Society* 15 (1) (2009), 23–36.
32. E. Kılıç, The generalized Fibonomial matrix, *European Journal of Combinatorics* 31 (2010), 193–209.
33. E. Kılıç and D. Taşcı, On the generalized Fibonacci and Pell sequences by hessenberg matrices, *Ars Combinatoria* 94 (2010), 161–174.
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39. E. Kılıç and E. J. Ionascu, Certain binomial sums with recursive coefficients, *The Fibonacci Quarterly* 48 (2) (2010), 161–167.
40. E. Kılıç, İ. Akkuş and H. Prodinger, A proof of a conjecture of Melham, *The Fibonacci Quarterly* 48 (2010), 241–248.
41. E. Kılıç, Second order linear recursions whose subscripts are a power, *Miskolc Mathematical Notes* 11 (2) (2010), 151–161.
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43. E. Kılıç, On binomial sums for the general second order linear recurrence, *Integers: The Electronic Journal of Combinatorial Number Theory* #A57, 10 (2010), 801–806.
44. E. Kılıç and P. Stanica, A matrix approach for general higher order linear recurrence, *Bulletin of the Malaysian Mathematical Sciences Society* (2) 34 (2011), 51–67.

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50. E. Kılıç, N. Ömür and Y. Ulutaş, Alternating sums of the powers of Fibonacci and Lucas numbers, *Miskolc Mathematical Notes* 12 (1) (2011), 87–103.
51. E. Kılıç and P. Stanica, Generating matrices of  $C$ -nomial coefficients and their spectra, *Proc. International Conf. Fibonacci Numbers & Applic.* 2010.
52. E. Kılıç, N. Ömür and Y. Ulutaş, Some finite sums involving generalized Fibonacci and Lucas numbers, *Discrete Dynamics in Nature and Society* (2011), Article ID 284261.
53. E. Kılıç, H. Prodinger, I. Akkuş and H. Ohtsuka, Formulas for Fibonomial sums with generalized

Fibonacci and Lucas coefficients, *The Fibonacci Quarterly* 49 (4) (2011), 320–329.

54. E. Kılıç, İ. Akkuş and H. Ohtsuka, Some generalized Fibonomial sums related with the Gaussian  $q$ -binomial sums, *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie* 55 (103) (2012), 51–61.
55. E. Kılıç, Y. Ulutaş and N. Ömür, Formulas for weighted binomial sums with the powers of terms of binary recurrences, *Miskolc Mathematical Notes* 13(2012), 53–65.
56. E. Kılıç, A matrix approach for generalizing two curious divisibility properties, *Miskolc Mathematical Notes* 13 (2) (2012), 389–396.
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61. E. Kılıç and T. Arıkan, More on the infinite sum of reciprocal usual Fibonacci, Pell and higher order recurrences, *Applied Mathematics Computation* 219 (2013), 7783–7788.

62. E. Kılıç and N. Ömür, Some weighted sums of products of Lucas sequences, *Integers: The Electronic Journal of Combinatorial Number Theory* 13 (2013), #A27, 1–9.
63. E. Kılıç and H. Prodinger, Variants of the Filbert matrix, *The Fibonacci Quarterly* 51 (2) (2013), 153–162.
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66. E. Kılıç and H. Prodinger, Asymmetric generalizations of the Filbert matrix and variants, *Publications de l'Institut Mathématique* 95 (109) (2014), 267–280.
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70. E. Kılıç and H. Prodinger, The generalized  $q$ -Pilbert matrix, *Mathematica Slovaca* 64 (5) (2014), 1–10.

71. E. Kılıç, A proof of a conjecture of Marques and Trojovský, *Miskolc Mathematical Notes* 2 (2) (2014), 545–557.
72. E. Kılıç, Y. Ulutaş, I. Akkuş and N. Ömür, Generalized binary recurrent quasi-cyclic matrices, *Annales Mathematicae et Informaticae* 43 (2014), 103–112.
73. E. Kılıç and H. Prodinger, Formulae related to the  $q$ -Dixon formula with applications to Fibonomial sums, *Periodica Mathematica Hungarica*. 70 (2015), 216–226.
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75. E. Kılıç, I. Akkuş, N. Ömür and Y. Ulutaş, Various sums including the generalized Fibonacci and Lucas numbers, *Palestine Journal of Mathematics* 4 (2) (2015) , 319–326.
76. E. Kılıç and H. Prodinger, Sums of products of generalized Fibonacci and Lucas numbers, *Acta Mathematica Hungarica* 145 (1) (2015), 17–25.
77. E. Kılıç and H. Prodinger, Closed form evaluation of sums containing squares of Fibonomial coefficients, *Mathematica Slovaca* 66 (3) (2016), 757–765.
78. E. Kılıç and Hacene Belbachir, Generalized double binomial sums families by generating functions, accepted in *Utilitas Mathematica*.
79. E. Kılıç, I. Akkuş, N. Ömür and Y. Ulutaş, Formulas for binomial sums including powers of Fibonacci and Lucas numbers, *U.P.B. Sci. Bull. Series A* 77 (4) (2015), 69–78.

80. E. Kılıç, İ. Akkuş, N. Ömür, Y. Ulutaş, A curious matrix-sum identity and certain finite sums identities, *Asian-European Journal of Mathematics* 8 (3) (2015), #1550047.
81. E. Kılıç and H. Prodinger, Evaluation of sums involving Gaussian  $q$ -binomial coefficients with rational weight functions, *International Journal of Number Theory* 12 (2) (2016), 495–504.
82. E. Kılıç, İ. Akkuş and G. Kızılaslan, A variant of the reciprocal super Catalan matrix with two additional parameters, *Special Matrices* 3 (2015), 163–168.
83. E. Kılıç, I. Akkus, N. Ömür, Y. Ulutaş, Generalized binomial convolution of the  $m^{\text{th}}$  powers of the consecutive integers with the general Fibonacci sequence, *Demonstratio Mathematica* 49 (4) (2016), 379–385.
84. E. Kılıç and T. Arıkan, Evaluation of spectrum of 2-periodic tridiagonal-Sylvester matrix, *Turkish Journal of Mathematics* 40 (2016), 80–89.
85. E. Kılıç and H. Prodinger, The generalized Lilbert matrix, *Periodica Mathematica Hungarica* 73 (1) (2016), 62–72.
86. E. Kılıç and T. Arıkan, The generalized reciprocal super Catalan matrix, *Turkish Journal of Mathematics* 40 (2016), 960-972.
87. E. Kılıç, Some new classes of alternating weighted binomial sums, *Annals of the Alexandru Ioan Cuza University – Mathematics* 3(2) (2016), 835—843.
89. E. Kılıç and T. Arıkan, Ruehr's identities with two additional parameters, *Integers*, 16 (2016), #A30.

90. E. Kılıç and H. Prodinger, Some Gaussian binomial sum formulæ with applications, *Indian J. Pure Appl. Math.* 47 (3) (2016), 399–407.
91. E. Kılıç, N. Ömür, S. Koparal, Y. Ulutaş, Two variants of the reciprocal super Catalan matrix, *Kyungpook Mathematical Journal* 56 (2) (2016), 409–418.
92. E. Kılıç and H. Prodinger, Identities with squares of binomial coefficients: an elementary and explicit approach, *Publications de l'Institut Mathematique*, 99 (113) (2016), 243–248.
93. E. Kılıç and H. Prodinger, Closed form evaluation of restricted sums containing squares of Fibonomial coefficients, *U.P.B. Sci. Bull., Series A* 78(4) (2016), 57--66.
94. E. Kılıç and A. Yalçiner, On sums of squares of Fibonomial coefficients by  $q$ -calculus, *Asian-European Journal of Mathematics* 9 (3) (2016), [14 pp].
94. N. Irmak and E. Kılıç, Decompositions of the Cauchy and Ferrers-Jackson polynomials, *Mathematical Communications*, 21 (2016), 163–170.
95. E. Kılıç, Evaluation of sums containing triple aerated generalized Fibonomial coefficients, *Mathematica Slovaca* 67(2) (2017), 355–370.
96. E. Kılıç and H. Prodinger, The matrix of super Patalan numbers and its factorizations, *Filomat* 31(8) (2017), 2337–2344.
97. E. Kılıç and H. Prodinger, Closed form evaluation of Melham's reciprocal sums, *Miskolc Mathematical Notes* 18 (1) (2017), 251–264.

98. E. Kılıç and T. Arıkan, A class of non-symmetric band determinants with the Gaussian  $q$ -binomial coefficients, *Quaestiones Mathematicae* 40(5) 2017, 645–660.
99. E. Kılıç and H. Prodinger, Evaluation of sums involving products of Gaussian  $q$ -binomial coefficients with applications to Fibonomial sums, *Turkish Journal of Mathematics* 41 (2017), 707—716.
100. E. Kılıç and I. Akkus, On usual Fibonomial sums identities with special sign functions: analytically  $q$ -calculus approach, accepted in *Mathematica Slovaca*.
101. E. Kılıç and T. Arıkan, Evaluation of Hessenberg determinants via generating function approach, *Filomat* 31(15) (2017), 4945–4962.
102. E. Kılıç, N. Ömür and S. Koparal, On alternating weighted binomial sums with falling factorials, *Bulletin of Mathematical Analysis and Applications* 9 (1) (2017), 58--64.
103. E. Kılıç and T. Arıkan, Double binomial sums and double sums related with certain linear recurrences of various order, accepted in *Chiang Mai Journal of Science*.
104. E. Kılıç, N. Omur and S. Koparal, Formulae for various weighted binomial sum with the falling factorials, accepted in *Ars Combinatoria*.
105. E. Kılıç, T. Mansour and T. Arıkan, A wilf class composed of 19 symmetry classes of quadruples of 4-letter patterns, *Notes on Number Theory and Discrete Mathematics* 23 (3) (2017), 79–99.

106. E. Kılıç, Evaluation of various partial sums of Gaussian  $q$ -binomial sums, accepted in Arabian Journal of Mathematics.
107. E. Kılıç, Three binomial sums weighted by falling and rising factorials, accepted in Turkish Journal of Mathematics.
108. T. Hopkins, E. Kılıç, An analytical approach: Explicit inverses of periodic tridiagonal matrices, accepted in Journal of Computational and Applied Mathematics.
109. E. Kılıç and T. Arıkan, A nonlinear generalization of the Filbert matrix and its Lucas analogue, accepted in Linear and Multilinear Algebra.

## Science Direct verilerine göre en çok okunan ilk 25 yayının sıralamasında Birinci olan SCI kapsamındaki bilimsel makaleler

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Emrah Kılıç, The Binet formula, sums and representations of generalized Fibonacci  $p$ -numbers, European Journal of Combinatorics, 29 (3) (2008) 701-711.

Emrah Kılıç, The generalized Fibonacci matrix, European Journal of Combinatorics, 31 (2010) 193-209.

E. Kılıç and P. Stanica, The inverse of banded matrices, Journal of Computational and Applied Mathematics, 237 (1) (2013), 126-135.

## Sempozyum ve Seminerler

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1. Evaluation of sums involving Gaussian  $q$ -binomial coefficients with rational weight functions, Lebanese international conference on mathematics and applications, LICMA 15, May 2015, Lebanese university, Lebanon. ([Davetli Konuşmacı](#))
2. Analysis methods in number theory problems, MATDER, 14. Mathematics Symposium, Niğde University, May 2015 ([Davetli Konuşmacı](#))
3. Generalized binomial coefficients and their various sums by  $q$ -calculus, Hacettepe Üniversitesi Matematik Bölümü, Ankara, Haziran 2013
4. Higher order linear recurrences by matrix methods, Bilkent Üniversitesi Matematik Bölümü, Ankara, Mayıs 2013.
5. An another symmetric Fibonacci matrix-II, with G. Özdemir, RAMA8, Algeria, 2012.
6. A symmetric Fibonacci matrix-I, (L. Çetinkaya ile) RAMA8, Algeria, 2012.
7. Some new kinds of generalized Fibonomial sums, RAMA8, Algeria, 2012. ([Davetli Konuşmacı](#))

8. Generalizing two curious divisibility properties, 15th Inter. Conference on Fibonacci Numbers and Their Appl., Eger-Hungary, 2012.
9. Some further results on the sums of reciprocals of terms of a order- $k$  recurring sequence, (T. Arıkan ile) 15th Inter. Conference on Fibonacci Numbers and Their Appl. Eger-Hungary, 2012.
10. Some Gaussian  $q$ -Binomial Sums and its Applications, (I. Akkuş ile) ICAAA2011, İstanbul 2011
11. Spectrum of a tridiagonal matrix and factorization of a period second order linear recurrence system, DIMACOS11, Morocco 2011
12. Generalized Binary Recurrent Quasi-Cyclic Matrices, (Y. T. Ulutaş ile) DIMACOS11, Morocco 2011
13. Finite sums involving generalized Fibonacci and Lucas numbers, (N. Ömür ile) DIMACOS11, Morocco 2011
14. Generating matrices of C-nomial coefficients and their spectra, (P. Stanica ile) 14th Inter. Conf. on Fibonacci Numbers and Their Appl, Mexico, 2010.
15. On sums of the product of terms of the generalized Lucas sequences, Ankara Matematik Günleri, Ankara 2010.

16. Fibonacci numbers and generating matrices, TOBB ETU, 2009.
17. Banded matrices and their inverses, Ankara University, 2009.
18. Explicit formula for the inverse of a tridigonal matrix by backward continued fraction, TASSA, Harvard Univ. 2008
19. Spectral properties of some combinatorial matrices, (P. Stanica and G. Stanica ile), 13. Inter. Conf. on Fibonacci Numbers and Their Appl, Mexico, 2010
20. Antalya Cebir Günleri, Antalya 2005
21. Pell Matrices and Matrix Representation of Pell Numbers, XVII. Ulusal Matematik Sempozyumu, Bolu 2004
22. On the order- $k$  generalized Lucas numbers, Antalya Cebir Günleri , Antalya, 2003

## Ödüller

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TOBB ETÜ yayın teşvik ödülleri

Tubitak yayın teşvik ödülleri

Gazi Üniversitesi yayın teşvik ödülleri