

## ÖZGEÇMİŞ

1. **Adı Soyadı** : Gülnur YEL

2. **Doğum Tarihi**: 09.08.1987

3. **Unvanı**: Doçent

4. **Öğrenim Durumu**:

Derece	Alan	Üniversite	Yıl
Lisans	Matematik Bölümü	Muğla Sıtkı Koçman Üniversitesi	2005-2009
Y. Lisans	Uygulamalı Matematik	Muğla Sıtkı Koçman Üniversitesi	2009-2012
Doktora	Uygulamalı Matematik	Muğla Sıtkı Koçman Üniversitesi	2012-2016

**Yüksek Lisans Tezi**: Burger Denkleminin İkinci ve Üçüncü derece B-Spline Polinomları ile Nümerik Çözümleri

**Doktora Tezi**: Lineer Olmayan Kesirli Türevli Diferansiyel Denklemlerin Analitik ve Nümerik Çözümleri Üzerine

### 5. Akademik Unvanlar

Doçent: 2020-

Dr. Öğretim Üyesi : 2017-2020

### 6. Yönetilen Yüksek Lisans ve Doktora Tezleri

#### 6.1. Yüksek Lisans Tezleri

#### 6.2. Doktora Tezleri

### 7. Yayınlar

#### 7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)

A1: Ö. Işık, M. Ç. Ünüvar, G.Yel and N. İşler," Studies on Generalization of Special Equations at the q-Integers" , International Journal of Mathematics and Computation, Vol.11, No.J11, (2011). 143-155. ISSN: 0974-570X

A2: Z. F. Kocak, H. Bulut, and G. Yel, "The solution of fractional wave equation by using modified trial equation method and homotopy analysis method", AIP Conference Proceedings, Vol. 1637, 504-512, (2014). (SCI)

A3: H. Bulut, G. Yel and H. M. Baskonus, "An Application of Improved Bernoulli Sub-Equation Function Method To The Nonlinear Time-Fractional Burgers Equation", Turk. J. Math. Comput. Sci. Vol.5,1-7, (2016).

A4: H. Bulut, G. Yel and H. M. Baskonus, " Novel Structure to the Coupled Nonlinear Maccari's System by Using Modified Trial Equation Method" *Advanced Math. Models & Applications*, Vol.2, No.1, 14-19,(2017).

A5: H. M. Baskonus, , G. Yel, H. Bulut , "Novel wave surfaces to the fractional Zakharov-Kuznetsov-Benjamin-Bona-Mahony equation", *AIP Conference Proceedings*, 1863, 560084, (2017).1-6. (SCI-E).

A6: G. Yel, H. M. Baskonus, H. Bulut," Novel archetypes of new coupled Konno–Oono equation by using sine–Gordon expansion method", *Optical and Quantum Electronics*, 49:285, (2017). (SCI).

A7: Z. F. Kocak and , G. Yel, “Trigonometric Function Solutions of Fractional Drinfeld's Sokolov -Wilson System”, *ITM Web of Conferences* 13, 01006, (2017).

A8: G. Yel, and Z. F. Kocak, “On the exact solutions of the fractional (2+1)- dimensional Davey-Stewartson equation system”, *An International Journal of Optimization and Control: Theories & Applications*, Vol.7, No.3, pp.265-270 (2017).

A9: T. A. Sulaiman, H. Bulut, G. Yel, S. S. Atas, “Optical solitons to the fractional perturbed Radhakrishnan–Kundu–Lakshmanan model”, *Optical and Quantum Electronics*, 50:372, (2018). (SCI).

A10: G. Yel, H. M. Baskonus and H. Bulut, “Regarding some novel exponential travelling wave solutions to the Wu–Zhang system arising in nonlinear water wave model”, *Indian J Phys*, 93(8):1031–1039, (2019) doi: 10.1007/s12648-018-1347-5 (SCI-E).

A11: H. Bulut, T.Aktürk, G. Yel, “An Application of the Modified Expansion Method to Nonlinear Partial Differential Equation”, *Turk. J. Math. Comput. Sci.*,10, 202–206, (2018).

A12: T. A. Sulaiman, G. Yel, H. Bulut, “M-fractional solitons and periodic wave solutions to the Hirota Maccari system”, *Modern Physics Letters B*, Vol. 33, No. 05, 1950052, (2019). (SCI).

A13: G. Yel, H. M. Baskonus, “Solitons in Conformable Time-Fractional Wu-Zhang System Arising in Coastal Design”, *Pramana- Journal of Physics*, 93(4),(2019). (SCI). Article no:57 (SCI-E)

A14: G. Yel, On the new travelling wave solution of a neural communication model, *BAUN Fen Bil. Enst. Dergisi*, 21(2), 666-678, (2019). (TR-DİZİN)

A15: Gao, W.; Veerasha, P.; Prakasha, D.G.; Baskonus, H.M.; Yel, G., A powerful approach for fractional Drinfeld–Sokolov–Wilson equation with Mittag-Leffler law, *Alexandria Engineering Journal*,58, 1301–1311, 2019 (SCI-E).

A16: Gao, W.; Yel, G.; Baskonus, H.M.; Cattani, C. Complex solitons in the conformable (2 + 1)-dimensional Ablowitz-Kaup-Newell-Segur equation. *AIMS Math.* 2019, 5(1), 507– 521. (SCI-E)

A17: Juan Luis García Guirao, H. M. Baskonus, Ajay Kumar, M. S. Rawat, G. Yel, Complex Patterns to the (3+1)-Dimensional B-type Kadomtsev-Petviashvili-Boussinesq Equation, *Symmetry*, 12(1), 17; doi:10.3390/sym12010017, 2020 (SCI-E)

A18: Gulnur Yel, T. A. Sulaiman, Haci Mehmet Baskonus, On the complex solutions to the (3 + 1)-dimensional conformable fractional modified KdV–Zakharov–Kuznetsov equation, *Modern Physics Letters B*, 34(5), 2050069, doi:10.1142/s0217984920500694, 2020 (SCI-E).

A19: W. Gao, H. Rezazadeh, Z. Pinar, H. M. Baskonus, Shahzad Sarwar, G. Yel, “Novel Explicit solutions for the Nonlinear Zoomeron equation by using newly extended direct algebraic technique”, *Optical and Quantum Electronics*, 52(1):52, 2020,

A20: Pundikala Veerasha, Doddabhadrappla Gowda Prakasha, Haci Mehmet Baskonus, Gulnur Yel, An efficient analytical approach for fractional Lakshmanan- Porsezian-Daniel model, *Mathematical Methods in the Applied Sciences*, 43(7), (2020), 4136-4155. (10.02.2020), (SCI-E)

A21: Wei Gao, P.Veerasha, D.G.Prakasha, Haci Mehmet Baskonus, Gulnur Yel, New approach for the model describing the deathly disease in pregnant women using Mittag-Leffler function, *Chaos, Solitons and Fractals*, 134, (2020), 109696 <https://doi.org/10.1016/j.chaos.2020.109696> (SCI-E)

A22: Wei Gao, Pundikala Veerasha, Doddabhadrappla Gowda Prakasha, Haci Mehmet Baskonus and Gulnur Yel, New Numerical Results for the Time-Fractional Phi-Four Equation Using a Novel Analytical Approach, *Symmetry* 2020, 12(3), 478; doi:10.3390/sym12030478. (SCI-E)

A23: Kamyar Hosseini, Mohammad Mirzazadeh, Franak Rabiei, Haci Mehmet Baskonus, Gulnur Yel, Dark optical solitons to the Biswas–Arshed equation with high order dispersions and absence of self-phase modulation, *Optik, International Journal for Light and Electron Optics*, 209, 2020, 164576, <https://doi.org/10.1016/j.ijleo.2020.164576> (SCI-E)

A24: Wei Gao, Mine Senel, Gulnur Yel, Haci Mehmet Baskonus and Bilgin Senel, New complex wave patterns to the electrical transmission line model arising in network system, *AIMS Mathematics*, 5(3): 1881–1892, 2020 (SCI-E)

A25: Tolga Aktürk, Gulnur Yel, Modified exponential function method for the KP-BBM equation, *Math. Nat. Sci.*, 6, 1–7, 2020.

A26: Gulnur Yel, Tolga Aktürk, Application of the modified exponential function method to Vakhnenko-Parkes equation, *Math. Nat. Sci.*, 6, 8–14, 2020.

A27: Gulnur Yel, Haci Mehmet Baskonus, Wei Gao, New dark-bright soliton in the shallow water wave model, *AIMS Mathematics*, 5(4): 4027–4044, 2020. (SCI-E)

A28: Gulnur Yel, Tolga Aktürk, A New Approach to (3+1) Dimensional Boiti–Leon–Manna–Pempinelli Equation, Applied Mathematics and Nonlinear Sciences, 5(1), 309–316, (2020) (Scopus)

A29: Gulnur Yel, New wave patterns to the doubly dispersive equation in nonlinear dynamic elasticity, Pramana – J. Phys. 94(1):79, (2020), (SCI-E)

A30: P. Veereshaa, H.M. Baskonus, D.G. Prakasha, W. Gao, G. Yel, Regarding new numerical solution of fractional Schistosomiasis disease arising in biological phenomena, Chaos Solitons Fractals, 133, 109661, (2020) (SCI-E)

A31: Adil Jhangeer, Hacı Mehmet Baskonus, Gulnur Yel, Wei Gao, New exact solitary wave solutions, bifurcation analysis and first order conserved quantities of resonance nonlinear Schrödinger's equation with Kerr law nonlinearity, Journal of King Saud University - Science, 2020 (SCI-E)

## **7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler**

1. Ö. Işık, M. Ç. Ünüvar, G.Yel and N. İşler, " Studies on Generalization of Special Equations at the q-Integers" , International Journal of Mathematics and Computation, Vol.11, No.J11, (2011).
2. H. Bulut, G. Yel and H. M. Baskonus, "Novel Structure to the Coupled Nonlinear Maccari's System by Using Modified Trial Equation Method" Advanced Math. Models & Applications Vol.2, No.1, 14-19,(2017).
3. G. Yel, and Z. F. Kocak, "On the exact solutions of the fractional (2+1)- dimensional Davey-Stewartson equation system", An International Journal of Optimization and Control: Theories & Applications, Vol.7, No.3, pp.265-270 (2017).

## **7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler**

1. Z. F. Kocak, H. Bulut, and G. Yel, "The solution of fractional wave equation by using modified trial equation method and homotopy analysis method", AIP Conference Proceedings, Vol. 1637, 504-512, (2014).
2. Z. F. Kocak and , G. Yel, "Trigonometric Function Solutions of Fractional Drinfeld's Sokolov -Wilson System", ITM Web of Conferences 13, 01006, (2017).
3. Hacı Mehmet Baskonus, Gulnur Yel, Hasan Bulut ", Novel Wave Surfaces to the Fractional Zakharov-Kuznetsov-Benjamin-Bona-Mahony equation " 14-th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2016), September 19-25, 2016, Rhodes /Greece.
4. Hacı Mehmet Baskonus, Hasan Bulut, Gulnur Yel, Regarding complex and exponential behaviours to the nonlinear space-time fractional telegraph equation, International Conference on Applied Mathematics and Analysis (ICAMA 2016), Atılım University, July 11-13, 2016, Ankara/Turkey.

5. Gulnur Yel and Zeynep Fidan Kocak, "On the Exact Solutions of the Fractional (2+1)-Dimensional Davey - Stewartson Equation System", 2nd International Conference on Computational Mathematics and Engineering Sciences (CMES2017), MAY 20-22, 2017, Istanbul/Turkey.
6. Gulnur Yel, Haci Mehmet Baskonus and Hasan Bulut, "Novel Structure to the Coupled Nonlinear Maccari's System by Using Modified Trial Equation Method ", 2nd International Conference on Computational Mathematics and Engineering Sciences (CMES2017), 20- MAY 20-22, 2017, Istanbul/Turkey.
7. Gulnur Yel, "Concerning On The New Exponential Travelling Wave Solutions of the (2+1)-Dimensional Heisenberg Ferromagnetic Spin Chain Equation", 3rd International Conference on Computational Mathematics and Engineering Sciences (CMES 2018), 4-6 May, Kyrenia/ Cyprus
8. Tukur Abdulkadir Sulaiman, Hasan Bulut, Gulnur Yel, Sibel Sehriban Atas, "Optical solitons to the conformable time-fractional perturbed Radhakrishnan-Kundu-Lakshmanan equation", The 6th International Conference on Control and Optimization with Industrial Applications (COIA 2018), 11-13 July, 2018, Baku,/Azerbaijan
9. G. Yel, H.M. Baskonus and H. Bulut, "Regarding on the Some Novel Exponential Travelling Wave Solutions to the Wu-Zhang System", Proceedings of the International Conference on Current Scenario in Pure and Applied Mathematics (ICCSPAM 2018), 14-16 February 2018, India
10. H. Bulut, T. Akturk, G. Yel, "An Application of the Modified Expansion Method to Nonlinear Partial Differential Equation, International Conference on Mathematics and Mathematics Educations (ICMME-2018), 27-29 June 2018, Ordu/Tukey
11. G. Yel, T. Akturk, "Application of the Modified Exponential Function Method to Vakhnenko-Parkes Equation", 4th International Conference on Computational Mathematics and Engineering Sciences (CMES 2019),20-22 April 2019, Antalya
12. T. Akturk, G. Yel, "Modified Expansion Function Method for the KP-BBM Equation", 4th International Conference on Computational Mathematics and Engineering Sciences (CMES 2019),20-22 April 2019, Antalya
13. G. Yel, H. Bulut, Hülya Durur, H.M. Baskonus, "New Analytical Approach to the Mathematical Models Arising in Physical Field", International Conference on Applied Nonlinear Analysis & Soft Computing, (ANASC-2020), 22-23 December, 2020, Gauhati University, India.

#### **7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler**

#### **7.5. Ulusal hakemli dergilerde yayınlanan makaleler**

1. G. Yel, On the new travelling wave solution of a neural communication model, BAUN Fen Bil. Enst. Dergisi, 21(2), 666-678, (2019).

#### **7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler**

1. H. Bulut, T.Aktürk, G. Yel, "An Application of the Modified Expansion Method to Nonlinear Partial Differential Equation", Turk. J. Math. Comput. Sci.,10, 202–206, (2018).
2. H. Bulut, G. Yel and H. M. Baskonus, "An Application of Improved Bernoulli Sub-Equation Function Method To The Nonlinear Time-Fractional Burgers Equation", Turk. J. Math. Comput. Sci. Vol.5,1–7, (2016).

## 7.7. Diğer yayınlar

## 7.8. Uluslararası atıflar



**Gülnur YEL**

Asisst. Prof. Dr. Uluslararası Fırat Üniversitesi  
final.edu.tr üzerinde doğrulanmış e-posta adresine sahip - [Ana Sayfa](#)  
Applied Mathematics Analytical and Numerical M...

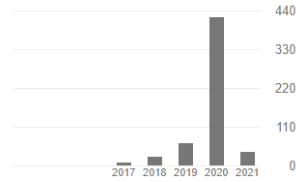
TAKİP ET

KENDİ PROFİLİNİZİ OLUŞTURUN

BAŞLIK	ALINTI YAPANLAR	YIL
<a href="#">Complex solitons in the conformable (2+ 1)-dimensional Ablowitz-Kaup-Newell-Segur equation</a> W Gao, G Yel, HM Baskonus, C Cattani Aims Math 5 (1), 507-521	91	2020
<a href="#">Novel archetypes of new coupled Konno–Oono equation by using sine–Gordon expansion method</a> G Yel, HM Baskonus, H Bulut Optical and Quantum Electronics 49 (9), 1-10	54	2017
<a href="#">New approach for the model describing the deadly disease in pregnant women using Mittag-Leffler function</a> W Gao, P Veerasha, DG Prakasha, HM Baskonus, G Yel Chaos, Solitons & Fractals 134, 109696	53	2020

Alıntı yapanlar

	Hepsi	2016 yılından bugüne
Alıntılar	584	581
h-endeksi	13	13
i10-endeksi	19	19



## Web of Science

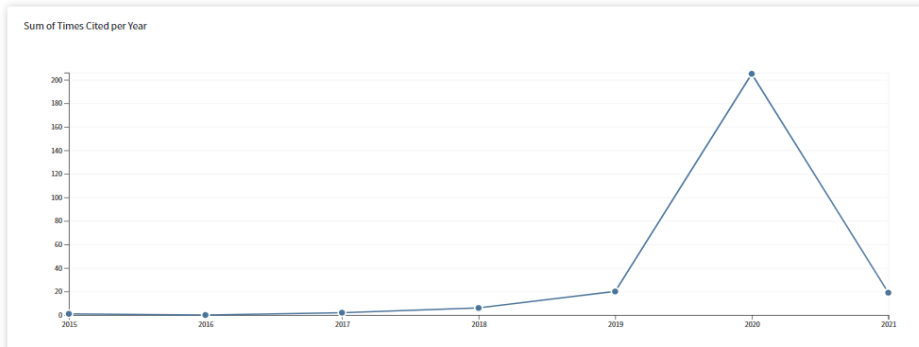
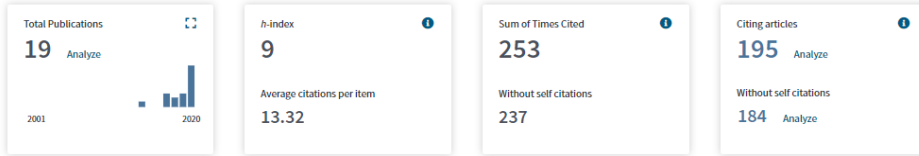
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You searched for: AUTHOR: (yel Gulnur) ...More

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## 9. İdari Görevler

- Kalite Güvence ve Stratejik Planlama Ofisi Üyesi (2017-)
- Eğitim Fakültesi Yönetim Kurulu Üyesi(2017-)

## 10. Dergilerde Editörlük-Hakemlik

- Hakemlik, Journal of the Egyptian Mathematical Society,( JOEMS), (Google Scholar, EBSCO), 2018
- Mathematics in Natural Science, (Publons), (2018-19)
- International Conference on Computational Mathematics and Engineering Sciences, (CMES),(2018-20)
- Applied Mathematics and Nonlinear Sciences,( SCOPUS), (2019)
- An International Journal of Optimization and Control: Theories & Applications, (IJOCTA) (TR-Dizin) (2018-19)
- Physica A: Statistical Mechanics and its Applications, ,( ISCI, SCOPUS), (2019)
- Demonstratio Mathematica, (ESCI, SCOPUS), 2020
- Gümüşhane Üniversitesi Fen Bilimleri Dergisi, (TR-Dizin), 2020
- Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, (TR-Dizin), 2020
- Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, (TR-Dizin), 2021

## 11. Düzenlenen Bilimsel Etkinlikler

Bilim kurulu ve yerel komite üyeliği, oturum başkanlığı

International Conference on Computational Mathematics and Engineering Sciences (CMES 2017)- İstanbul-Türkiye

International Conference on Computational Mathematics and Engineering Sciences (CMES 2018)-Girne-KKTC

International Conference on Computational Mathematics and Engineering Sciences (CMES 2019)- Antalya-Türkiye

**12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.**

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		
			Teorik	Uygulama	
2017-2018	Güz	İSTATİSTİK I			
		DIFFERENTIAL EQUATIONS			
		GENEL MATEMATİK			
			MATEMATİK TARİHİ		
	Bahar	ENGINEERING MATHEMATICS			
		SOYUT MATEMATİK			
		GEOMETRİ			
		DIFFERENTIAL EQUATIONS			
	2018-2019	Güz	DOĞRUSAL CEBİR I		
ANALİZ I (Eski Müfredat)					
UYGULAMALI MATEMATİK					
			ANALİZ I (Yeni Müfredat)		
Bahar		ANALİZ II(Eski Müfredat)			
		ANALİZ II(Yeni Müfredat)			
		DOĞRUSAL CEBİR II			
		SOYUT MATEMATİK			
2019-2020		Güz	LİNEER CEBİR I		
	ANALİZ III				
	ANALİZ III				
			CEBİRE GİRİŞ		
	Bahar	LİNEER CEBİR II			
		DOĞRUSAL CEBİR II			
		DİFERANSİYEL DENKLEMLER			
		KÜLTÜR VE MATEMATİK			
	2020-2021	Güz	MATEMATİK ÖĞRETİMİNDE MATERYAL TASARIMI		
SAYISAL ANALİZ					
ELEMANTER SAYI KURAMI					
OKUL DENEYİMİ I					
TEMEL İSTATİSTİK					
İSTATİSTİK					
CEBİR					