

ÖZGEÇMİŞ

1. Adı Soyadı : Ayla OKAN
2. Doğum Tarihi : 20/10/1983
3. Ünvanı : Dr. Öğretim Üyesi
4. Öğrenim Durumu : Doktora Mezun

Derece	Alan	Üniversite	Yıl
Lisans	Matematik	Yıldız Teknik Üniversitesi	2005
Y. Lisans	Uygulamalı Matematik	Marmara Üniversitesi	2012
Doktora	Hesaplamalı Bilim ve Mühendislik	İstanbul Teknik Üniversitesi	2019

5. Akademik Unvanlar:

- Dr. Öğr. Üyesi Olma Tarihi : 26.12.2019
- Doçentlik Tarihi :
- Profesörlük Tarihi :

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 & SCIE)

- Okan A., Demiralp, M., A Self-Consistent High Dimensional Modelling Based Decomposition Approach for Univariate Linear Integral Operators: Tridiagonal Kernel Enhanced Multivariate Products Representation (TKEMPR), Vol. 326, 2017, Doi:10.1016/j.cam.2017.05.024

7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

- Okan A., A New Decomposition Approach for Binary Product Series via High Dimensional Modeling, Mathematics in Engineering, Science and Aerospace (MESA), 9 (2), 165-176, (2018).
- Okan A., Demiralp, M., Numerical Implementations for Tridiagonal Kernel Enhanced Multivariate Products Representation (TKEMPR) Method: Bivariate Case, International Journal of Signal Processing, Vol. 1, 102-107, (2016).

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

- Okan, A., Gündoğar, Z and Demiralp, M. Tridiagonal Folded Kernel Enhanced Multivariate Products Representation (TFKEMPR), ICNPAA World Congress 2018: Mathematical Problems in Engineering, Aerospace and Sciences, July 3-6 2018, Yerevan, Armenia, AIP Conference Proceedings, 2046 (1), 020023, 2018. Doi: 10.1063/1.5081543
- Gürvit E., Okan A. And Baykara N.A., Univariate Function Evaluation via Contour Integration in Tridiagonal Enhanced Multivariate Products Representation (TKEMPR) Perspective: Focusing on High Oscillations, AIP Conference Proceedings, 2046, 020008 (2018); Doi:10.1063/1.5081528

- Okan A., Demiralp, M. Recursive Bivariate Enhanced Multivariance Products Representation to Tridiagonalize Arrowheaded Matrices: Tridiagonal Matrix Enhanced Multivariance Products Representation (TMEMPR) with Weight Considerations, AIP Conference Proceedings, Vol. 1798, 020116 (2017), Doi: 10.1063/1.4972708
- Okan A., Demiralp, M., Arrowheading Enhanced Multivariance Products Representation for a Kernel (AEMPRK) in a Bivariate Taylor Series Expansion, AIP Conference Proceedings, Vol. 1702, (2015). Doi: 10.1063/1.4938942
- Okan A., Demiralp, M., Tridiagonal Kernel Enhanced Multivariance Products Representation (TKEMPR) for Outer Product Sums: Arrowheading EMPR for Kernel (AEMPRK), AIP Conference Proceedings, Vol. 1648, 160002 (2015); Doi: 10.1063/1.4912452
- Okan A., Demiralp, M., Fluctuation Suppression to Optimize Initial Data to Increase the Quality of Truncation Approximants in Probabilistic Evolution Approach for ODEs: Basic Philosophy, AIP Conference Proceedings, Vol. 1479, 2007 (2012); Doi: 10.1063/1.4756582
- Okan A., Baykara, N.A. and Demiralp, M., Parameter Optimization to Get Maximum Constancy in Constant Möbius Transformational High Dimensional Model Representation, Advances in Systems Theory, Signal Processing and Computational Science, 219-223, (2012), ISBN: 978-1-61804-115-9
- Okan A., Baykara, N.A. and Demiralp, M., A Gauss Quadrature Like Numerical Integration Approach Based on Hermite Interpolation with Node Optimisation, AIP Conference Proceedings, Vol. 1389, 1168 (2011); Doi: 10.1063/1.3637823
- Okan A., Baykara, N.A. and Demiralp, M., Weight Optimization in Enhanced Multivariate Product Representation (EMPR) for Given Supports at the Fluctuation Free Integration Limit , Proceedings of the 2nd International Conference on Applied Informatics and Computing Theory (AICT'11), IEEEAM, Prague, Czech Republic, 26-28 September, pp. 52-57, 2011.
- Okan A., Baykara, N.A. and Demiralp, M., Weight Optimization in Enhanced Multivariance Product Representation (EMPR) Method, AIP Conference Proceedings, Vol. 1281, 1935 (2010); Doi: 10.1063/1.3498306

7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler

7.5. Ulusal hakemli dergilerde yayınlanan makaleler

7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

7.7. Diğer yayınlar

7.8 Uluslararası atıflar (Web of Science Raporu)

Title	Authors	Source Title	Total Citations
Univariate Function Evaluation via Contour Integration in Tridiagonal Enhanced Multivariance Products Representation (TKEMPR) Perspective: Focusing on High Oscillations,	Gürvit, E., Baykara, N.A., Okan, A.	ICNPAA 2016 WORLD CONGRESS: 11TH INT. CONFERENCE ON MATHEMATICAL PROBLEMS IN ENGINEERING, AEROSPACE AND SCIENCES	0
Tridiagonal Folded Kernel Enhanced Multivariance Products Representation (TFKEMPR)	Demiralp, M., Okan, A., Gündoğar, Z.,	ICNPAA 2018 WORLD CONGRESS: 12TH INTERNATIONAL CONFERENCE ON MATHEMATICAL PROBLEMS IN ENGINEERING, AEROSPACE AND SCIENCES	0
Taylor Series Remainder's Kernel Evaluation in Tridiagonal Enhanced Multivariance Products Representation (TKEMPR) Perspective	Gürvit, E., Baykara, N.A., Okan, A.	ICNPAA 2018 WORLD CONGRESS: 12TH INTERNATIONAL CONFERENCE ON MATHEMATICAL PROBLEMS IN ENGINEERING, AEROSPACE AND SCIENCES	0

Recursive Bivariate Enhanced Multivariance Products Representation to Tridiagonalize Arrowheaded Matrices: Tridiagonal Matrix Enhanced Multivariance Products Representation (TMEMPR) With Weight Considerations	Okan, A., Demiralp, M.	ICNPAA 2016 WORLD CONGRESS: 11TH INTERNATIONAL CONFERENCE ON MATHEMATICAL PROBLEMS IN ENGINEERING, AEROSPACE AND SCIENCES	0
A self-consistent high dimensional modelling based decomposition approach for univariate linear integral operators: Tridiagonal Kernel Enhanced Multivariance Products Representation (TKEMPR)	Okan, A., Demiralp, M.	JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS	4
Tridiagonal Kernel Enhanced Multivariance Products Representation (TKEMPR) for Outer Product Sums: Arrowheading EMPR for Kernel (AEMPRK)	Okan, A., Demiralp, M.	PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF NUMERICAL ANALYSIS AND APPLIED MATHEMATICS 2014 (ICNAAM-2014)	5
Arrowheading Enhanced Multivariance Products Representation for a Kernel (AEMPRK) in a Bivariate Taylor Series Expansion	Okan, A., Demiralp, M.	INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2015 (ICCMSE 2015)	2
Tridiagonal Kernel Enhanced Multivariance Products Representation (TKEMPR) for Univariate Integral Operator Kernels	Okan, A., Demiralp, M.	2014 INTERNATIONAL CONFERENCE ON MATHEMATICS AND COMPUTERS IN SCIENCES AND IN INDUSTRY (MCSI 2014)	4
Fluctuation Suppression to Optimize Initial Data to Increase the Quality of Truncation Approximants in Probabilistic Evolution Approach for ODEs: Basic Philosophy	Okan, A., Baykara, N.A., Demiralp, M.	NUMERICAL ANALYSIS AND APPLIED MATHEMATICS (ICNAAM 2012), VOLS A AND B	2
A Gauss Quadrature Like Numerical Integration Approach Based on Hermite Interpolation with Node Optimisation	Okan, A., Baykara, N.A., Demiralp, M.	NUMERICAL ANALYSIS AND APPLIED MATHEMATICS ICNAAM 2011: INTERNATIONAL CONFERENCE ON NUMERICAL ANALYSIS AND APPLIED MATHEMATICS	0
Weight Optimization in Enhanced Multivariance Product Representation (EMPR) Method	Okan, A., Baykara, N.A., Demiralp, M.	NUMERICAL ANALYSIS AND APPLIED MATHEMATICS, VOLS I-III	8

Results found	11
Sum of the Times Cited	25
Average Citations per Item	2,27
h-index	8

8. Projeler

9. İdari Görevler

10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

11. Ödüller

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

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2019-2020	Bahar (İstanbul Aydın Üniversitesi, İnşaat Müh., Makine Müh.,)	Mat 147 Matematik II	3	0	40
		Mat 148 Matematik II	3	0	35
		Mak 235 Diferansiyel Denklemler	3	0	59
2019-2020	Güz (İstanbul Aydın Üniversitesi, İnşaat Mühendisliği)	Mat 149 Matematik I	3	0	26
		Mat 151 Matematik I	3	0	71
		Mat 235 Matematik III	3	0	8
2019-2020	Güz (İstinye Üniversitesi, Sağlık Bilimleri Fakültesi)	Temel Matematik	3	0	30
		Temel Matematik	2	0	66
2017-2018	Güz (İstanbul teknik Üniversitesi, Araştırma Görevlisi, LÜ Dersi)	Bilimsel Hesaplama I	3	0	14
		Paralel ve Dağıtık Hesaplama	3	0	8
2017-2018	Bahar (İstanbul teknik Üniversitesi, Araştırma Görevlisi, LÜ Dersi)	Bilimsel Hesaplama II	3	0	12
		Paralel Sayısal Algoritmalar ve Araçlar	3	0	6