

# Assoc. Prof. Dr. Ersin ASLAN



EDUCATION			
Degree	University	Department / Program	Yıllar
Undergrad	Ege University	Mathematic -Computer Science	2000-2005
MS	Ege University	Mathematic- Computer Science	2005-2007
PhD	Ege University	Mathematic -Computer Science	2007-2011

CONTACT INFORMATION	
Adress	Hasan Ferdi Turgutlu Teknology Fakulty, Manisa Celal Bayar University Turgutlu MANİSA
Telephone	(0236) 314 10 10
Fax	(0236) 314 20 20
e-mail	ersin.aslan@cbu.edu.tr

DUTIES		
Affiliation	Position	Years
Ege University, Ege MYO	INSTRUCTOR (CONTRACTED)	2005-2007
Turgutlu Vocational School, Celal Bayar University	INSTRUCTOR	2009 -2012
CELAL BAYAR UNIVERSITY DISTANCE EDUCATIONAPPLICATION AND RESEARCH CENTER	Director of Center	2013-2015
Turgutlu Vocational School, Manisa Celal Bayar University	Assistant Professor	2012-2017
Hasan Ferdi Turgutlu Teknology Fakulty, Manisa Celal Bayar University	Assoc. Prof. Dr.	2017-...
Turgutlu Vocational School, Manisa Celal Bayar University	Director	2019-...
CELAL BAYAR UNIVERSITY DISTANCE EDUCATIONAPPLICATION AND RESEARCH CENTER	Director of Center	2019-...

<b>THESIS</b>	
<b>Master's</b>	Graphs and Vulnerability Measures
<b>Doctoral</b>	On isoperitmatic number of Graphs

<b>ORIGINAL PUBLICATIONS</b>	
<b>Papers Published in SCI Expanded Journals</b>	
1	<b>ERSİN ASLAN, ÖMÜR KIVANÇ KÜRKCÜ, MEHMET SEZER, (2021), Applied Numerical Mathematics, 161, 525-539.</b>
2	<b>ERSİN ASLAN (2019) The average binding number of graphs, Scienceasia, 45, 85-91</b>
3	<b>MUSTAFA ERKAN TURAN, GÖKŞEN BACAK TURAN, TÜLİN ÇETİN, ERSİN ASLAN, (2019). Feasible Sanitary Sewer Network Generation Using Graph Theory, Advances in Civil Engineering, Volume 2019, Article ID 8527180, 15 p., <a href="https://doi.org/10.1155/2019/8527180">https://doi.org/10.1155/2019/8527180</a></b>
4	<b>ÖMÜR KIVANÇ KÜRKCÜ, ERSİN ASLAN, MEHMET SEZER, (2019). An integrated numerical method with error analysis for solving fractional differential equations of quintic nonlinear type arising in applied sciences. Mathematical Methods In The Applied Sciences , 1-17,</b>
5	<b>ÖMÜR KIVANÇ KÜRKCÜ, ERSİN ASLAN, MEHMET SEZER, (2019). An inventive numerical method for solving the most general form of integro-differential equations with functional delays and characteristic behavior of orthoexponential residual function, Computational and Applied Mathematics 38 (2), 34</b>
6	<b>ÖMÜR KIVANÇ KÜRKCÜ, ERSİN ASLAN, MEHMET SEZER, (2019) A novel graph-operational matrix method for solving multidelay fractional differential equations with variable coefficients and a numerical comparative survey of fractional derivative types, Turkish Journal of Mathematics, 43/1, 373-392</b>
7	<b>ÖMÜR KIVANÇ KÜRKCÜ, ERSİN ASLAN (2018). A Comparison Between Edge Neighbor Rupture Degree and Edge Scattering Number in Graphs, International Journal of Foundations of Computer Science, 29/ 7 1119-1142</b>
8	<b>ÖMÜR KIVANÇ KÜRKCÜ, ERSİN ASLAN, MEHMET SEZER, ÖZGÜL İLHAN (2018). A Numerical Approach Technique for Solving Generalized Delay Integro-Differential Equations with Functional Bounds by Means of Dickson Polynomials, International Journal of Computational Methods, Int. J. Comput. Methods, 15/5, 1850039</b>
9	<b>ÖMÜR KIVANÇ KÜRKCÜ, ERSİN ASLAN, MEHMET SEZER (2017). A numerical method for solving some model problems arising in science and convergence analysis based on residual function. Applied numerical mathematics, 121, 134-148.</b>
10	<b>ÖMÜR KIVANÇ KÜRKCÜ, ERSİN ASLAN, MEHMET SEZER (2017). A Novel Collocation Method Based on Residual Error Analysis for Solving Integro-Differential Equations Using Hybrid Dickson and Taylor Polynomials. Sains Malaysiana, 46 / 2, 335-347.</b>
11	<b>ASLAN ERSİN (2016). Weak Rupture Degree of Graphs. International Journal of Foundations of Computer Science, 27(06), 725-738.</b>
12	<b>ERSİN ASLAN, GÖKŞEN BACAK TURAN (2016). Mean rupture degree of graphs,</b>

	University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics, 78(1), 233-242.
13	<b>ERSİN ASLAN</b> , DENİZ KILINÇ, FATİH YÜCALAR, EMİN BORANDAG (2016). The average scattering number of graphs. RAIRO-Theoretical Informatics and Applications, 50(3), 263-272.
14	TUFAN TURACI, <b>ERSİN ASLAN</b> (2016). The average lower reinforcement number of a graph. RAIRO - Theoretical Informatics and Applications, 50(2), 135-144.
15	ÖMÜR KIVANÇ KÜRKÇÜ, <b>ERSİN ASLAN</b> , MEHMET SEZER (2016). A numerical approach with error estimation to solve general integro-differential–difference equations using Dickson polynomials. Applied Mathematics and Computations, 276, 324-339.
16	DENİZ KILINÇ, FATİH YÜCALAR, EMİN BORANDAG, <b>ERSİN ASLAN</b> (2016). Multi-level reranking approach for bug localization. Expert Systems, 33(3), 286-294.
17	<b>ERSİN ASLAN</b> (2015). Neighbor isolated tenacity of graphs. RAIRO - Theoretical Informatics and Applications, 49(4), 269-284.
18	<b>ERSİN ASLAN</b> (2015). Neighbor Isolated Scattering Number of a Graph. Scienceasia, 41(6), 423-431.
19	<b>ERSİN ASLAN</b> (2015). On the fourth atom-bond connectivity index of nanocones. Optoelectronics and Advanced Materials-Rapid Communications, 9(3-4), 525-527.

#### Papers Published in International Journals

1	<b>ERSİN ASLAN</b> (2015). Edge-Rupture Degree of a Graph. Dynamics of Continuous, Discrete and Impulsive Systems Series B: Applications & Algorithms, 22(2b), 155-161.,
2	<b>ERSİN ASLAN</b> , ÖMÜR KIVANÇ KÜRKÇÜ (2015). Edge Scattering Number of Gear Graphs. Bulletin of the International Mathematical Virtual Institute, 5(1), 25-31.
3	<b>ERSİN ASLAN</b> (2014). A Measure of Graphs Vulnerability: Edge Scattering Number. Bulletin of the International mathematical Virtual Institute, 53-60., Doi: 11.7251/BIMVI1401053A,
4	<b>ERSİN ASLAN</b> , ALPAY KIRLANGIÇ (2013). The Average Lower Domination Number of Graphs. Bulletin of International Mathematical Virtual Institute, 3(2), 155-160.,
5	<b>ERSİN ASLAN</b> , ALPAY KIRLANGIÇ (2013). Lexicographic Product and Isoperimetric Number. ISRN Combinatorics, Doi: 10.1155/2013/243981,
6	<b>ERSİN ASLAN</b> , ALPAY KIRLANGIÇ (2011). On The Isoperimetric Number Of Line Graphs. International Journal of Mathematical Combinatorics(4), 76-83.,
7	<b>ERSİN ASLAN</b> , ALPAY KIRLANGIÇ (2011). Computing The Scattering Number and The Toughness for Gear Graphs. Bulletin of Society of Mathematicians Banja Luka, 18, 5-15.,

#### Papers Presented and Published in Paper Books at International Scientific Congresses

1	AYŞE KAHVECİ, <b>ERSİN ASLAN</b> , (2019) The Average Binding Number of Trees, 3rd International Students Science Congress
2	ÖMÜR KIVANÇ KÜRKÇÜ, <b>ERSİN ASLAN</b> , MEHMET SEZER (2019). A Reliable Numerical Approximation to Physical Pendulum Equation Using Dickson

	Polynomials, 3rd International Students Science Congress
3	ÖMÜR KIVANÇ KÜRKÇÜ, <b>ERSİN ASLAN</b> , MEHMET SEZER (2018). A Hybrid Numerical Method Based on Dickson Polynomials for Solving Some Fractional Model Differential Equations, II. International University Industry Cooperation, R&D and Innovation Congress (ARGEINV2018)
4	MUSTAFA ERKAN TURAN, GÖKŞEN BACAK TURAN, TÜLİN ÇETİN, <b>ERSİN ASLAN</b> , (2018). Kanalizasyon Sistemi Optimizasyonunda Çizge Teorisi Kullanımı, International Symposium on Urban Water and Wastewater Management
5	ÖMÜR KIVANÇ KÜRKÇÜ, <b>ERSİN ASLAN</b> , MEHMET SEZER (2018). A Numerical Method for Solving Functional Differential Equations with Delays, nd International Students Science Congress (2018)

#### Papers Presented and Published in Paper Books at National Scientific Congresses

1	FARUK DURMAZ, <b>ERSİN ASLAN</b> , ALİ ABADANOGLU (2010). Rehabilitasyon amaçlı bilgisayar veri tabanı yardımıyla bölgesel engelli kişi haritasının oluşturulması. MYO ÖS 2010 Ulusal Meslek Yüksekokulları Öğrenci Sempozyumu.
2	<b>ERSİN ASLAN</b> , ALPAY KIRLANGIÇ (2008). Gear grafların toughness değeri. XXI. ULUSAL MATEMATİK SEMPOZYUMU.

PROJECTS				
	Date	Institution	Project subject	Position
1	2018-2019	MCBÜ/BAP	Araç Plaka Takip Sistemi	Araştırmacı
2	2018-2019	MCBÜ/BAP	Smart Anti Co	Araştırmacı
3	2018-2019	MCBÜ/BAP	Bulanık Çizgelerde Zedelenebilirlik Parametreleri	Araştırmacı
4	2018-2018	MCBÜ/ TUTSO	TURGUTLU'DAKİ İŞLETMELERİN SANAL PARAYA BAKIŞ AÇILARI	Yürütücü
5	2018-2018	MCBÜ/ TUTSO	TURGUTLU'DAKİ FİRMALARIN E-TİCARET VE E-REKLAM KULLANIMLARININ ANALİZİ	Yürütücü
6	2017-2018	MCBÜ/ TURGUTLU BELEDİYESİ	TURGUTLU ENGELLERİ WEB İLE AŞIYOR	Yürütücü
7	2017-2018	MCBÜ/ TUTSO	TURGUTLU SANAYİ ve TİCARET ODASI'NA KAYITLI KOBİ'LERE AİT YAZILIM HARİTASI OLUŞTURULMASI, ANALİZ EDİLMESİ ve ÖNERİLER	Yürütücü
8	2017-2018	MCBÜ/ TUTSO	TURGUTLU SANAYİ ve TİCARET ODASI'NA KAYITLI KOBİ'LERİN KENDİ FİRMALARINA AİT İNTERNET WEB SAYFALARINI, SOSYAL MEDYAYI KULLANMA ANALİZLERİ VE ÇÖZÜM ÖNERİLERİ	Yürütücü
9	2006-2007	EGE ÜNİ./ BAP	Graflar ve Zedelenebilirlik Ölçümleri	Araştırmacı

<b>MENTORING ACTIVITIES</b>		
<b>Masters/ Doctorial Students</b>		<b>Graduation date</b>
Ağlarda güvenlik için komşu zedelenebilirlik ölçümleri üzerine ,Mehmet Aykut TOSUN, Manisa Celal Bayar Üniversitesi.		2018-2021
Ağlarda ortalama bağlama sayısı üzerine, Ayşe KAHVECİ ÖZDEMİR, Manisa Celal Bayar Üniversitesi.		2018-2020
Graflarda Ortalama Düşük Bağlantılık Değeri Üzerine, Büşra AÇAN, (2017). Celal Bayar Üniversitesi.		2015-2017
Graflarda bazı zedelenebilirlik ölçümleri ve aralarındaki ilişkiler, ÖMÜR KIVANÇ KÜRKÇÜ, (2016) Manisa Celal Bayar Üniversitesi.		2014-2016
<b>SCHOLARSHIPS</b>		
		<b>Years</b>
1	Tübitak-Yurt İçi Yüksek Lisans Bilim Adamı Yetiştirme Bursu	2006-2007
2	Tübitak- Yurt İçi-Doktora Bilim Adamı Yetiştirme Bursu	2007-2011

**Özgeçmiş son güncelleme tarihi** 07/09/2022