



Süleyman ÖGREKÇİ

Ph.D.
Applied Mathematics

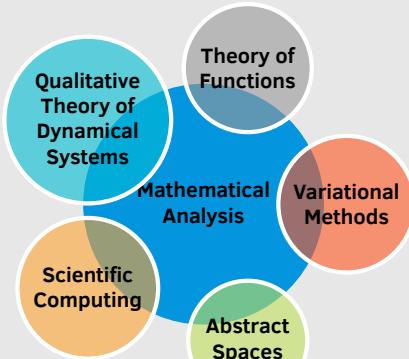
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s.sogrekci@gmail.com

Skills



Interests

Real Analysis



Theory of ODEs



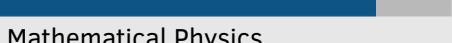
Fractional Calculus



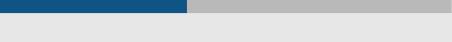
Calculus of Variations



Scientific Computing with Python



Mathematical Physics



Education

2009 - 2014 Ph.D., Mathematics

Gazi University

Institute of Science and Technology

Ph.D. Thesis Title: *Oscillation Theorems for Second Order Nonlinear Differential Equations*

Ankara, TURKEY

2007 - 2009 M.Sc., Mathematics

Gazi University

Institute of Science and Technology

M.Sc. Thesis Title: *Asymptotic Behavior of Linear Dynamic Systems on Time Scales*

Ankara, TURKEY

2003 - 2007 B.Sc., Mathematics

Selçuk University

Faculty of Science

B.Sc. Thesis Title: *Cryptology*

Konya, TURKEY

Experience

2020 - Assoc. Prof. Dr.

Amasya University

Amasya, TURKEY

2014 - 2020 Asst. Prof. Dr.

Amasya University

Amasya, TURKEY

Activity: Member of academic staff of Science & Arts Faculty, Mathematics Department. Head of department between 2016 Feb - 2018 Feb.

- Undergraduate lectures given:** Calculus I-II-III-IV, General Topology I-II, Fourier Analysis, Advanced Calculus, Numerical Analysis, Differential Equations I-II, Complex Analysis I-II, Metric Spaces, Computer Programming With Python, Scientific Computing With Python.

- Graduate lectures given:** Analysis, Linear Algebra, Advanced Functional Analysis, Selected Topics in Applied Mathematics, Existence and Uniqueness Theory of ODEs, Theory of Linear Systems of Differential Equations, Dynamic Systems and Bifurcation, Heat Equation and Fourier Analysis, The Analysis of Fractional Differential Equations, Scientific Computing with Python, Advaced Mathematical Typesetting.

TextBooks

2018

Temel Matematik Analiz

ISBN: 978-605-320-961-4

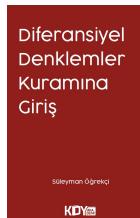


This book covers the general topics under analysis of functions of one real variable. Such as structure of real numbers, sequences and series of real numbers and real functions, continuous functions, derivative and integral concepts of functions. The book is suitable for relevant courses of under graduate and graduate courses.

2021

Diferansiyel Denklemler Kuramına Giriş

ISBN: 978-605-741-610-0



This monograph aims to investigate basic qualitative properties of differential equations and systems of differential equations. Main topics of this book are existence and uniqueness theory, general theory of linear systems, theory of second order scalar differential equations and Sturm-Liouville theory.



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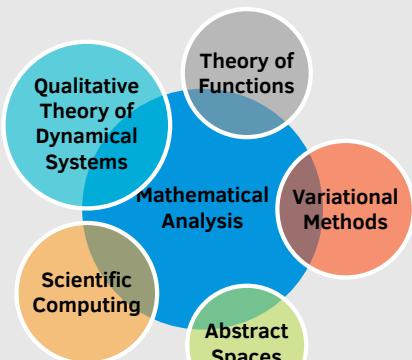
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Publications

- 2022 **Süleyman ÖGREKÇİ, Yasemin BAŞCI, Adil MISIR.** On the Hyers-Ulam Stability of Delay Differential Equations. *Memoirs on Differential Equations and Mathematical Physics*, 85(1), 133–142, Doi: [10.1007/s12215-020-00532-3](https://doi.org/10.1007/s12215-020-00532-3).
- 2021 **Serkan ASLİYÜCE, Süleyman ÖGREKÇİ.** Fractional variational problems on conformable calculus. *Communications Faculty Of Science University of Ankara Series A1: Mathematics and Statistics*, 70(2), 719–730, Doi: [10.31801/cfsuasmas.820580](https://doi.org/10.31801/cfsuasmas.820580).
- 2021 **Serkan ASLİYÜCE, Süleyman ÖGREKÇİ.** A note for the Ulam-Hyers-Rassias stability of differential equations on bounded intervals. *New Trends in Mathematical Science*, 9(3), 35–41, Doi: [10.20852/ntmsci.2021.451](https://doi.org/10.20852/ntmsci.2021.451).
- 2021 **El-sayed El-hady, Süleyman ÖGREKÇİ.** On Stability Of Some Integral Equations In 2-Banach Spaces. *J. Math. Computer Sci.*, 22(4), 325–332, Doi: [10.22436/jmcs.022.04.02](https://doi.org/10.22436/jmcs.022.04.02). [ESCI]
- 2020 **El-sayed El-hady, Süleyman ÖGREKÇİ.** On Hyers-Ulam-Rassias stability of fractional differential equations with Caputo derivative. *Sigma Journal of Engineering and Natural Sciences*, 38(2), 1261–1268. [ESCI]
- 2020 **Yasemin BAŞCI, Süleyman ÖGREKÇİ, Adil MISIR.** On Ulam's type stability criteria for fractional integral equations including Hadamard type singular kernel. *Turkish Journal of Mathematics*, 16(131), Doi: [10.3906/mat-1910-70](https://doi.org/10.3906/mat-1910-70). [SCI-Exp]
- 2020 **Süleyman ÖGREKÇİ, Yasemin BAŞCI, Adil MISIR.** Ulam type stability for conformable fractional differential equations. *Rendiconti del Circolo Matematico di Palermo Series 2*, 75:6, Doi: [10.1007/s12215-020-00532-3](https://doi.org/10.1007/s12215-020-00532-3). [ESCI]
- 2020 **Süleyman ÖGREKÇİ, Yasemin BAŞCI, Adil MISIR.** A new proof of Gronwall inequality with Atangana-Baleanu fractional derivatives. *Communication in Mathematical Modeling and Applications*, 5:1, 1–5
- 2020 **Yasemin BAŞCI, Adil MISIR, Süleyman ÖGREKÇİ.** On the Stability Problem of Differential Equations in the Sense of Ulam. *Results in Mathematics*, 75:6, Doi: [10.1007/s00025-019-1132-6](https://doi.org/10.1007/s00025-019-1132-6). [SCI-Exp]
- 2019 **Yasemin BAŞCI, Süleyman ÖGREKÇİ, Adil MISIR.** Hyers-Ulam-Rassias Stability for Abel-Riccati Type First-Order Differential Equations. *Gazi University Journal of Science*, 32(4), 1238–1252, Doi: [10.35378/gujs.493396](https://doi.org/10.35378/gujs.493396). [ESCI]
- 2019 **Yasemin BAŞCI, Süleyman ÖGREKÇİ, Adil MISIR.** On Hyers-Ulam Stability for Fractional Differential Equations Including the New Caputo-Fabrizio Fractional Derivative. *Mediterranean Journal of Mathematics*, 16(131), Doi: [10.1007/s00009-019-1407-x](https://doi.org/10.1007/s00009-019-1407-x). [SCI-Exp]
- 2019 **Süleyman ÖGREKÇİ.** Stability of Delay Differential Equations in the Sense of Ulam on Unbounded Intervals. *An International Journal of Optimization and Control: Theories & Applications*, 9(2), 36–42.
- 2018 **Süleyman ÖGREKÇİ.** Interval Oscillation Criteria for Second-Order Functional Differential Equations. *Sigma Journal of Engineering and Natural Sciences*, 36(2), 351–359. [ESCI]
- 2017 **Süleyman ÖGREKÇİ, Adil MISIR, Aydın TİRYAKİ.** On the Oscillation of Second-Order Nonlinear Differential Equations With Damping. *Miskolc Mathematical Notes*, 18(1), 365–378, Doi: [10.18514/MMN.2017.1467](https://doi.org/10.18514/MMN.2017.1467). [SCI-Exp]



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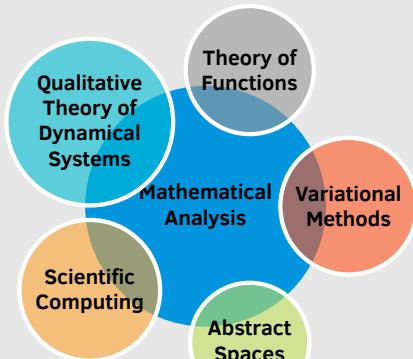
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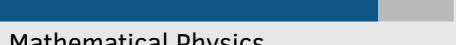
Fractional Calculus



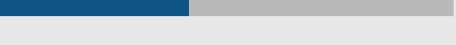
Calculus of Variations



Scientific Computing with Python



Mathematical Physics



- 2016 **Adil MISİR, Süleyman ÖGREKÇİ.** Oscillation Theorems for Second Order Nonlinear Differential Equations. *Gazi University Journal of Science*, 29(4), 929-935. **[ESCI]**
- 2016 **Adil MISİR, Süleyman ÖGREKÇİ.** Oscillation Criteria for a Class of Second Order Nonlinear Differential Equations. *Gazi University Journal of Science*, 29(4), 923-927. **[ESCI]**
- 2015 **Adil MISİR, Süleyman ÖGREKÇİ.** On Approximate Solution of Weakly Singular Integro dynamic Equation on Time Scales. *Gazi University Journal of Science*, 28(4), 651-658. **[ESCI]**
- 2015 **Mustafa BAYRAM, Hakan ADIGÜZEL, Süleyman ÖGREKÇİ.** Oscillation of fractional order functional differential equations with nonlinear damping. *Open Physics*, 13(1), Doi: [10.1515/phys-2015-0053](https://doi.org/10.1515/phys-2015-0053). **[SCI-Exp]**
- 2015 **Süleyman ÖGREKÇİ.** Generalized Taylor Series Method for Solving Nonlinear Fractional Differential Equations with Modified Riemann Liouville Derivative. *Advances in Mathematical Physics*, 2015, 1-10., Doi: [10.1155/2015/507970](https://doi.org/10.1155/2015/507970). **[SCI-Exp]**
- 2015 **Süleyman ÖGREKÇİ.** Interval oscillation criteria for functional differential equations of fractional order. *Advances in Difference Equations*, 2015(1), Doi: [10.1186/s13662-014-0336-z](https://doi.org/10.1186/s13662-014-0336-z). **[SCI-Exp]**
- 2015 **Süleyman ÖGREKÇİ.** New interval oscillation criteria for second order functional differential equations with nonlinear damping. *Open Mathematics*, 13(1), 239-246., Doi: [10.1515/math-2015-0023](https://doi.org/10.1515/math-2015-0023). **[SCI-Exp]**
- 2011 **Adil MISİR, Süleyman ÖGREKÇİ.** Asymptotic iteration technique for second order dynamic equations on time scales. *Journal of Mathematical Physics*, 52(4), 43504, Doi: [10.1063/1.3571991](https://doi.org/10.1063/1.3571991). **[SCI-Exp]**
- 2010 **Adil MISİR, Süleyman ÖGREKÇİ.** Reducibility and Stability Results for Dynamic Systems on Time Scales. *Advances in Dynamical Systems and Applications*, 5(2), 191-203.
- 2020 **Süleyman ÖGREKÇİ.** Herglotz Type Variational Problems on Conformable Fractional Calculus. *The First Online Conference on Modern Fractional Calculus and Its Applications 2020*, Istanbul, Turkey.
- 2019 **Yasemin Başçı, Adil Mısır, Süleyman ÖGREKÇİ.** Ulam's Type Stability for Hadamard Type Fractional Integral Equations. *International Conference of Mathematics and Mathematics Education 2019*, Konya, Turkey.
- 2019 **Süleyman ÖGREKÇİ, Yasemin Başçı, Adil Mısır.** On the Stability Problem of Differential Equations in the Sense of Ulam. *International Workshop on Dynamical Systems and Applications: In Memory of Prof. Dr. Aydin Tiryaki, IWDSA2019*, Ankara, Turkey.
- 2019 **Süleyman ÖGREKÇİ, Yasemin Başçı, Adil Mısır.** On the Hyers-Ulam Stability of delay Differential Equations. *8th International Conference of Applied Analysis and Mathematical Modeling*, Istanbul, Turkey.
- 2018 **Adil Mısır, Yasemin Başçı, Süleyman ÖGREKÇİ.** Hyers-Ulam Stability for Caputo-Fabrizio Type Fractional differential Equations. *International Conference of Mathematics and Mathematics Education 2018*, Ordu, Turkey.



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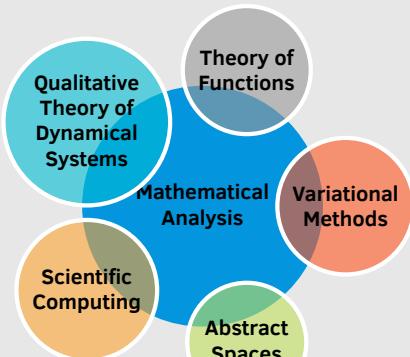
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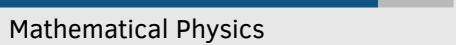
Fractional Calculus



Calculus of Variations



Scientific Computing with Python



Mathematical Physics

- 2018 **Adil Mısır, Süleyman ÖGREKÇİ, Yasemin Başçı.** On the Stability of $y' = f(x, y)$ in the Sense of Ulam. *International Conference of Mathematics and Mathematics Education 2018*, Ordu, Turkey.
- 2018 **Süleyman ÖGREKÇİ, Yasemin Başçı, Adil Mısır.** On the Stability Problem of Differential Equations in the Sense of Ulam. *7th International Conference of Applied Analysis and Mathematical Modeling*, Istanbul, Turkey.
- 2016 **Süleyman ÖGREKÇİ.** Generalized Taylor Series Method for Solving Nonlinear Fractional Differential Equations with Modified Riemann Liouville Derivative. *2nd International Conference on Pure and Applied Sciences*, Istanbul, Turkey.
- 2016 **Hakan ADIGÜZEL, Mustafa BAYRAM, Süleyman ÖGREKÇİ.** Oscillation of Fractional Order Functional Differential Equations With Nonlinear Damping Term. *2nd International Conference on Pure and Applied Science*, Istanbul, Turkey.
- 2015 **Süleyman ÖGREKÇİ.** Interval Oscillation Criteria for Functional Differential Equations of Fractional Order. *4th International Eurasian Conference on Mathematical Sciences and Applications*, Athens, Greece.
- 2015 **Süleyman ÖGREKÇİ.** Interval Oscillation Criteria for Functional Differential Equations of Fractional Order. *14th International Workshop on Dynamical Systems and Applications*, Ankara, Turkey.
- 2015 **Süleyman ÖGREKÇİ.** Kesirli Mertebeden Fonksiyonel diferensiyel denklemlerin Salınımlılığı. *10. Ankara Matematik Günleri*, Ankara, Turkey. (Turkish)
- 2013 **Adil MISİR, Süleyman ÖGREKÇİ.** Oscillation Criteria for Second Order Forced Nonlinear Differential Equations With Damping Terms. *12th International Workshop on Dynamical Systems and Applications*, Ankara, Turkey.
- 2013 **Adil MISİR, Süleyman ÖGREKÇİ.** İkinci Mertebeden Doğrusal Olmayan Bir Denklem Sınıfı için Salınımlılık Kriterleri. *8. Ankara Matematik Günleri*, Ankara, Turkey. (Turkish)
- 2012 **Adil MISİR, Süleyman ÖGREKÇİ.** Oscillation Theorems for Second Order Non Linear Differential Equations. *The 11th International-Workshop on Dynamical Systems and Applications*, Ankara, Turkey.
- 2009 **Adil MISİR, Süleyman ÖGREKÇİ.** Zaman Skalarlarında Dinamik Denklemlerin İndirgenebilirlik ve Kararlılık Sonuçları. *IX. Dinamik Sistemler Çalışayı*, İzmir, Turkey. (Turkish)

Supervision

- 2019 **Mustafa BÜLBÜL.** Ulam-Hyers Stability on Time Scales. [\[M.Sc. Thesis\]](#)
- 2019 **Ertuğrul ÇULHACIOĞLU.** Stability of Dynamic Equations on Time Scales. [\[M.Sc. Thesis\]](#)
- 2019 **Halil TERECİ.** Lyapunov's Direct Method on Time Scales. [\[M.Sc. Thesis\]](#)
- 2022 **Rebiha SARIDUGAN.** Ulam Type Stability of Differential Equations. [\[M.Sc. Thesis\]](#)