Süleyman ÖĞREKÇİ

Ph.D.
Applied Mathematics

LinkedIn /in/sogrekci

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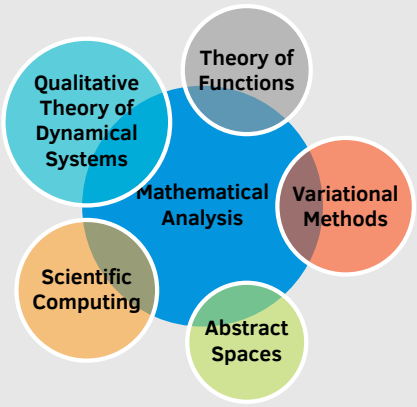
Skills



Interests

- Real Analysis
- Theory of ODEs
- Fractional Calculus
- Calculus of Variations
- Scientific Computing with Python
- Mathematical Physics

Education

2009 - 2014 **Ph.D., Mathematics** — Ankara, TURKEY
Gazi University
Instute of Science and Technology
Ph.D. Thesis Title: *Oscillation Theorems for Second Order Nonlinear Differential Equations*

2007 - 2009 **M.Sc., Mathematics** — Ankara, TURKEY
Gazi University
Instute of Science and Technology
M.Sc. Thesis Title: *Asymptotic Behavior of Linear Dynamic Systems on Time Scales*

2003 - 2007 **B.Sc., Mathematics** — Konya, TURKEY
Selçuk University
Faculty of Science
B.Sc. Thesis Title: *Cryptology*

Experience

2020 - **Assoc. Prof. Dr.** — Amasya, TURKEY
Amasya University

2014 - 2020 **Asst. Prof. Dr.** — Amasya, TURKEY
Amasya University

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.
- **Graduate lectures given:** Analysis, Linear Algebra, Advanced Functional Analysis, Selected Topics in Applied Mathematics, 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.

TextBooks

2018 **Temel Matematik Analiz (in Turkish)** — 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 suiable for relevant courses of under graduate and graduate courses.

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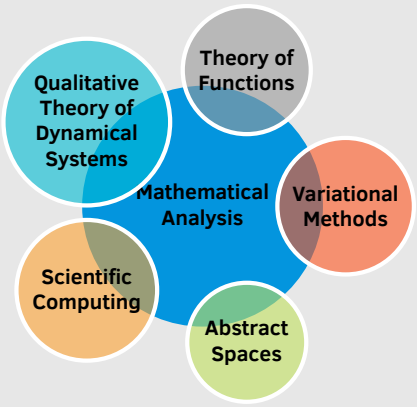

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Publications

2021 **El-sayed El-hady, Süleyman ÖĞREKÇİ**. On Hyers-Ulam-Rassias stability of fractional differential equations with Caputo derivative. *J. Math. Computer Sci.*, 22(4), 325–332, Doi: 10.22436/jmcs.022.04.02. **[ESCI]**

2020 **Yasemin BAŞCI, Süleyman ÖĞREKÇİ, 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. **[SCI-Exp]**

2020 **Süleyman ÖĞREKÇİ, 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. **[ESCI]**

2020 **Süleyman ÖĞREKÇİ, 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 ÖĞREKÇİ**. On the Stability Problem of Differential Equations in the Sense of Ulam. *Results in Mathematics*, 75:6, Doi: 10.1007/s00025-019-1132-6. **[SCI-Exp]**

2019 **Yasemin BAŞCI, Süleyman ÖĞREKÇİ, 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. **[ESCI]**

2019 **Yasemin BAŞCI, Süleyman ÖĞREKÇİ, 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. **[SCI-Exp]**

2019 **Süleyman ÖĞREKÇİ**. Stability of Delay Differential Equationsin the Sense of Ulam on Unbounded Intervals. *An International Journal of Optimization and Control: Theories & Applications*, 9(2), 36–42.

2018 **Süleyman ÖĞREKÇİ**. Interval Oscillation Criteria for Second-Order Functional Differential Equations. *Sigma Journal of Engineering and Natural Sciences*, 36(2), 351-359. **[ESCI]**

2017 **Süleyman ÖĞREKÇİ, 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. **[SCI-Exp]**

2016 **Adil MISIR, Süleyman ÖĞREKÇİ**. Oscillation Theorems for Second Order Nonlinear Differential Equations. *Gazi University Journal of Science*, 29(4), 929-935. **[ESCI]**

2016 **Adil MISIR, Süleyman ÖĞREKÇİ**. Oscillation Criteria for a Class of Second Order Nonlinear Differential Equations. *Gazi University Journal of Science*, 29(4), 923-927. **[ESCI]**

2015 **Adil MISIR, Süleyman ÖĞREKÇİ**. 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 ÖĞREKÇİ**. Oscillation of fractional order functional differential equations with nonlinear damping. *Open Physics*, 13(1), Doi: 10.1515/phys-2015-0053. **[SCI-Exp]**

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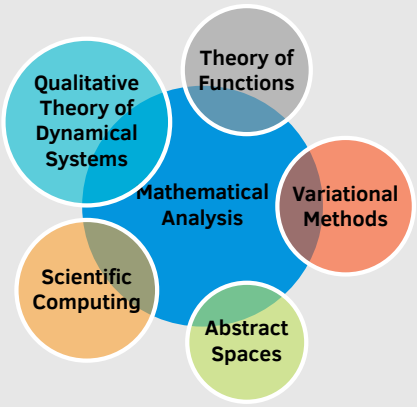

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2015 **Süleyman ÖĞREKÇİ**. Generalized Taylor Series Method for Solving Nonlinear Fractional Differential Equations with Modified Riemann Liouville Derivative. *Advances in Mathematical Physics*, 2015, 1-10., Doi: 10.1155/2015/507970. **[SCI-Exp]**

2015 **Süleyman ÖĞREKÇİ**. Interval oscillation criteria for functional differential equations of fractional order. *Advances in Difference Equations*, 2015(1), Doi: 10.1186/s13662-014-0336-z. **[SCI-Exp]**

2015 **Süleyman ÖĞREKÇİ**. 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. **[SCI-Exp]**

2011 **Adil MISIR, Süleyman ÖĞREKÇİ**. Asymptotic iteration technique for second order dynamic equations on time scales. *Journal of Mathematical Physics*, 52(4), 43504, Doi: 10.1063/1.3571991. **[SCI-Exp]**

2010 **Adil MISIR, Süleyman ÖĞREKÇİ**. Reducibility and Stability Results for Dynamic Systems on Time Scales. *Advances in Dynamical Systems and Applications*, 5(2), 191-203.

Talks

2019 **Yasemin Başcı, Adil Mısır, Süleyman ÖĞREKÇİ**. Ulam's Type Stability for Hadamard Type Fractional Integral Equations. *International Conference of Mathematics and Mathematics Education 2019*, Konya, Turkey.

2019 **Süleyman ÖĞREKÇİ, Yasemin Başcı, Adil Mısır**. On the Stability Problem of Differential Equations in the Sense of Ulam. *International Workshop on Dynamical Systems and Applications: In Memory of Prf. Dr. Aydın Tiryaki, IWDSA2019*, Ankara, Turkey.

2019 **Süleyman ÖĞREKÇİ, Yasemin Başcı, 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 Başcı, Süleyman ÖĞREKÇİ,**. Hyers-Ulam Stability for Caputo-Fabrizio Type Fractional differential Equations. *International Conference of Mathematics and Mathematics Education 2018*, Ordu, Turkey.

2018 **Adil Mısır, Süleyman ÖĞREKÇİ, Yasemin Başcı**. 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 ÖĞREKÇİ, Yasemin Başcı, 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 ÖĞREKÇİ**. 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 ÖĞREKÇİ**. Oscillation of Fractional Order Functional Differential Equations With Nonlinear Damping Term. *2nd International Conference on Pure and Applied Science*, Istanbul, Turkey.

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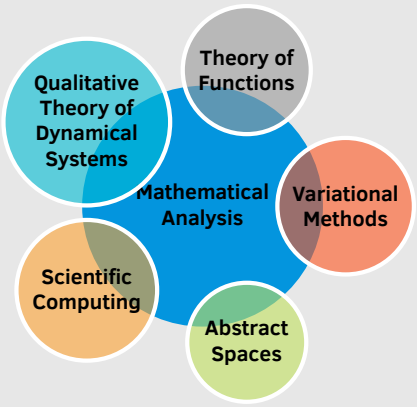

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- Mathematical Physics

2015 **Süleyman ÖĞREKÇİ**. Interval Oscillation Criteria for Functional Differential Equations of Fractional Order. *4th International Eurasian Conference on Mathematical Sciences and Applications*, Athens, Greece.

2015 **Süleyman ÖĞREKÇİ**. Interval Oscillation Criteria for Functional Differential Equations of Fractional Order. *14th International Workshop on Dynamical Systems and Applications*, Ankara, Turkey.

2015 **Süleyman ÖĞREKÇİ**. Kesirli Mertebeden Fonksiyonel diferensiyel denklemlerin Salınımlılığı. *10. Ankara Matematik Günleri*, Ankara, Turkey. (Turkish)

2013 **Adil MISIR, Süleyman ÖĞREKÇİ**. Oscillation Criteria for Second Order Forced Nonlinear Differential Equations With Damping Terms. *12th International Workshop on Dynamical Systems and Applications*, Ankara, Turkey.

2013 **Adil MISIR, Süleyman ÖĞREKÇİ**. İkinci Mertebeden Doğrusal Olmayan Bir Denklem Sınıfı için Salınımlılık Kriterleri. *8. Ankara Matematik Günleri*, Ankara, Turkey. (Turkish)

2012 **Adil MISIR, Süleyman ÖĞREKÇİ**. Oscillation Theorems for Second Order Non Linear Differential Equations. *The 11th International-Workshop on Dynamical Systems and Applications*, Ankara, Turkey.

2009 **Adil MISIR, Süleyman ÖĞREKÇİ**. Zaman Skalalarında Dinamik Denklemlerin İndirgenebilirlik ve Kararlılık Sonuçları. *IX. Dinamik Sistemler Çalıştayı*, 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]**