Süleyman CENGİZCİ

Öğretim Görevlisi, Bilgisayar Programlama
Doktor Adayı, Bilimsel Hesaplama
Antalya Bilim Üniversitesi
ABÜ A2-33, Üniversite Cad. No: 2, 07190, Döşemealtı / Antalya

suleyman.cengizci[at]antalya.edu.tr
suleymancengizci[at]gmail.com
Tel : +90 242 245 02 10 (#2210)
Fax: +90 242 245 00 45

EĞİTİM

- **Doktora, Bilimsel Hesaplama** (2014 - 2020) Orta Doğu Teknik Üniversitesi, Uygulamalı Matematik Enstitüsü, Bilimsel Hesaplama Programı, Ankara.

  Uzmanlık: Bilimsel Hesaplama, Adi ve kısmi türevli denklemlerin sayısal çözümlenmesi , Sonlu eleman metotları, Hipersonik akış mekaniği

  Tez: *Stabilized Finite Element Simulations of Multispecies Navier-Stokes Equations for Chemically Reactive Hypersonic Flows*

  Tez Danışmanı: Prof. Ömür Uğur (Middle East Technical University, Director to Institute of Applied Mathematics)
  Tez Yardımcı Danışmanı: Prof. Tayfun Tezduyar (Rice University, Mechanical Engineering; Waseda University, Faculty of Science and Engineering)

- **Yüksek Lisans, Uygulamalı Matematik** (Ağustos, 2014) Nevsehir Haci Bektas Veli University (Middle East Technical University – Engineering Sciences, Ankara / Turkey), Graduate School of Natural and Applied Sciences, Nevşehir.

  Uzmanlık: Uygulamalı Matematik (Asimptotik metotlar, Singüler olarak pertürbe edilmiş problemler)
  : Spektral Metotlar (Middle East Technical University – Engineering Sciences)

  Tez: *Singüler Pertürbasyon Problemlerinin Asimptotik Analizi*
  Tez Danışmanı: Asst. Prof. Mehmet Tarık ATAY

- **Pedagojik Formasyon** (Haziran 2014) Lise Matematik Öğretmenliği, Akdeniz University, Eğitim Fakültesi.

- **Lisans** (Haziran, 2012) Niğde Ömer Halisdemir University (Niğde), Matematik Bölümü, Fen-Edebiyat Fakültesi.
  Tez: *Dual Uzaylar*

- Lise (Haziran, 2007) Metin-Nuran Çakallıklı Anadolu Lisesi (Antalya), Sayısal alan.

AKADEMİK GÖREVLER

- **Öğretim Görevlisi,** *Aralık 2017 -*

  Bilgisayar Programlama, Antalya Bilim University, Antalya

- **Araştırma Görevlisi,** *Eylül 2014 – Aralık 2017*

  İİBF, Ekonomi Bölümü, Antalya Bilim University, Antalya

DİĞER GÖREVLER

- **Öğretmen,** *Eylül 2019 –*

  Yusuf Ziya Öner Fen Lisesi, *Antalya*

  Dersler: International Baccalaureate, Mathematics

- **Stajyer Öğretmen,** *Ocak 2014- Haziran 2014*

  Hüsniye Özdilek Meslek ve Teknik Anadolu Lisesi, *Antalya*

  Dersler: Lise Matematik

- **Stajyer Öğretmen,** Haziran *2013- Mayıs 2014*

  Antalya Vahap Yılmaz Dershaneleri, Antalya

  Dersler: Lise Matematik

VERİLEN DERSLER

Antalya Bilim University *(Asistanlık yapılan dersler, 2014-2017):*

- *Calculus for Social Sciences I (x3)*
- *Calculus for Social Sciences II (x3)*
- *Linear Algebra (x1)*
- *Mathematical Economics (x1)*

Antalya Bilim University *(Sorumlu olunan dersler, 2017-)*

- *Introduction to Linear Algebra (x3)*
- *Information Technologies (x2)*
- *Calculus for Social Sciences I - II (x3)*
- *Mathematics I (x3)*
- *Statistics for Social Sciences (x1)*
- *Bilgisayar Donanımı (x1)*
- *Matematik (x2)*

ARAŞTIRMA ALANLARI

- Singular Perturbation Problems
- Numerical Solutions of ODE's and PDE's
- Finite Element Methods (FEM)
- Scientific Computing
- Scientific Programming
- Hypersonic Fluid Dynamics
- Cancer Modelling (After PhD)

AKADEMİK ÇALIŞMALAR

- **Basılmış Makaleler**

1. **(2015) Cengizci S.**, Eryilmaz A., "Successive Complementary Expansion Method for solving Troesch's Problem as a Singular Perturbation Problem", International Journal of Engineering Mathematics (published) doi:10.1155/2015/949463

2. **(2016) Cengizci S.**, Atay M. T., Eryilmaz A., "A uniformly valid approximation algorithm for singularly perturbed two-point boundary value problems in nonlinear ordinary differential equations" SpringerPlus (published) doi: 10.1186/s40064-016-1865-6 (SCI-E)

3. **(2016)** Atay M. T., **Cengizci S.**, Eryilmaz A., "SCEM Approach for Singularly Perturbed Linear Turning Mid-Point Problems with an Interior Layer", New Trends in Mathematical Sciences (published) doi: 10.20852/ntmsci.2016115661

4. **(2017) Cengizci S.**, "An Asymptotic-Numerical Hybrid Method for Solving Singularly Perturbed Linear Delay Differential Equations," International Journal of Differential Equations, vol. 2017, Article ID 7269450, 8 pages, 2017. doi:10.1155/2017/7269450 (published) (ESCI)

5. **(2018) S. Cengizci**, S. Natesan, M. T. Atay, "An asymptotic-numerical hybrid method for singularly perturbed system of two-point reaction-diffusion boundary-value problems", Turkish Journal of Mathematics, 2018. doi: 10.3906/mat-1807-195 (published) (SCI-E)

6. **(2019) Cengizci S.**, "A comparison between MMAE and SCEM for solving singularly perturbed linear boundary layer problems", Filomat (accepted) (SCI-E)

- **İncelemedeki / Süren Makaleler**

1. **(2019) Cengizci S.**, Kumar D., "An asymptotic approach for singularly perturbed turning point problems with dual layers", (SCI-E)

2. **(2019) Cengizci S.**, "A hybrid method for solving singularly perturbed differential equations with fractional order" Communications in Nonlinear Science and Numerical Simulation (in progress) (SCI)

3. **(2019) Cengizci S.**, "On an efficient method for solving singularly perturbed nonlinear difference-differential equations", (in progress) (SCI)

4. **(2019) Cengizci S.**, "Uniformly valid hybrid method scheme for solving singularly perturbed parabolic partial differential equations", (in progress)

5. **(2019) Cengizci S.**, "A hybrid method for solving a system of singularly perturbed two-point convection-diffusion equations", Differential Equations and Dynamical Systems (E-SCI)

6. **(2019) Cengizci S.**, "On an efficient hybrid method for a system of singularly perturbed two-point boundary value problems with turning point", (in progress)

7. **(2019) Cengizci S.**, "A finite element based hybrid method for solving singularly perturbed nonlinear differential equations", (in progress)

8. **(2019) Cengizci S.**, "An asymptotic-numerical hybrid scheme for solving singularly perturbed difference-differential equations exhibiting interior layer behavior", (in progress)

- **Konferans Sunumları**

1. **(2015) Cengizci S.**, Atay M. T., Eryilmaz A., "A uniformly valid approximation algorithm for singularly perturbed two-point boundary value problems in nonlinear ordinary differential equations", International Conference on Advancements in Mathematical Sciences, Antalya, Turkey.

2. **(2016) Cengizci S**., Eryilmaz A., "A hybrid approach for solving singularly perturbed turning point problems exhibiting dual layers", International Conference on Mathematics and Mathematics Education (ICMME-2016), Fırat University, Elazığ, Turkey, 12-14 May 2016.

3. **(2017) Cengizci S.**, Kıroglu E. "On an asymptotic-numerical hybrid method for solving singularly perturbed nonlinear delay differential equations", 4th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2017), Side, Antalya, Turkey, 4-8 October 2017.

4. **(2017) Cengizci S.**, Kıroglu E., Dede F. "On an efficient hybrid method for solving singularly perturbed difference-differential equations exhibiting turning layer behavior", 4th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2017), Side, Antalya, Turkey, 4-8 October 2017.

5. **(2018) Cengizci S**., "Some comparisons between MMAE and SCEM for solving singularly perturbed linear problems", The Third International Conference on Computational Mathematics and Engineering Sciences (CMES-2018), May 4-6, 2018, Girne, Cyprus.

6. **(2018) Cengizci S.**, "A hybrid simulation for a system of singularly perturbed two-point reaction-diffusion equations", The Third International Conference on Computational Mathematics and Engineering Sciences (CMES-2018). May 4-6, 2018, Girne, Cyprus.

7. **(2019) Cengizci S.**, "Some Numerical Experiments on Singularly Perturbed Problems with Multi-Parameters", 8th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2019). August 27-30, 2019, Baku, Azerbaijan.

DİĞER AKADEMİK FAALİYETLER

- o **Hakemlikler:**
  - *Neural Processing Letters (Springer/SCI-E) x 3*
  - *Mathematical Modelling and Analysis (Taylor & Francis / SCI-E) x 1*
  - *Mathematical Sciences (Springer/E-SCI) x 1*
  - *Mathematical Sciences Letters (Natural Sciences Publishing) x 7*
  - *British Journal of Mathematics & Computer Science x 1*
  - *Advances in Research x 1*
  - *Journal of Advances in Mathematics and Computer Science x 2*
  - *Asian Research Journal of Mathematics x 1*
  - *Gazi University Journal of Science (E-SCI) x 1*

- o **Ziyaretçi Olunan Enstitüler:**
  1. *Ziyaretçi Araştırmacı, Department of Computing + Mathematical Sciences, California Institute of Technology(CALTECH), ABD.*

Danışman: Prof. Oscar P. Bruno

2. *Ziyaretçi Personel, The Interdisciplinary Center for Scientific Computing (IWR), Ruprecht-Karls University of Heidelberg, Almanya, (8-11 Mayıs, 2017)*

Danışman: Prof. Anna Marciniak-Czochra

BİLGİSAYAR VE YAZILIM

Windows, Linux (Ubuntu), Microsoft Office Pack, MATLAB, FEniCS, Scientific Workplace, LaTex, C++ Programming Language, Fortran Programming Language, Python Programming Language

AKADEMİK ÜYELİKLER

International Association of Engineers (IAENG)

AKADEMİK PROJELER

· 1002 – Hızlı Destek, TÜBİTAK, (incelemede).

AKADEMİK ÖDÜLLER

· Yayın Teşvik Ödülleri, Antalya Bilim University *(x1)*

· Yayın Teşvik Ödülleri, TÜBİTAK UBYT *(x1)*

AKADEMİK TANINIRLIK

Scopus ID: 57151353400

LinkedIn

Orcid ID: orcid.org/0000-0002-4345-1253

Publons

ResearchGate

arxiv

REFERANSLAR

➢ **Prof. Ömür UĞUR**
Middle East Technical University, Head of the Department of Scientific Computing
e-mail: ougur [@] metu.edu.tr **web**

➢ **Prof. Onur KÖKSOY**
Ege University, Head of the Department of Statistics
e-mail: onur.koksoy [@] ege.edu.tr **web**

➢ **Prof. Gerhard Wilhelm WEBER**
Poznan University of Technology, Chair of Marketing and Economic Engineering
e-mail:gerhard.weber [@] put.poznan.pl **web**

➢ **Assoc. Prof. Nurettin IRMAK**
Ömer Halisdemir University, Department of Mathematics
e-mail: nirmak [@] ohu.edu.tr **web**

➢ **Assoc. Prof. Mehmet Tarık ATAY**
Abdullah Gul University, Department of Mechanical Engineering
e-mail: mehmettarik.atay [@] agu.edu.tr **web**

➢ **Asst. Prof. Levent KUTLU**
University of Texas at Arlington, Department of Economics
e-mail: kutlulev [@] gmail.com **web**