

Asst. Prof. BURHAN SELÇUK

Personal Information

Fax Phone: [+90 370 418 7001](tel:+903704187001)

Email: bselcuk@karabuk.edu.tr

Web: <https://avesis.karabuk.edu.tr/bselcuk>

Address: Karabük Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Balıklarkayası Mevkii 78050 Karabük

Education Information

Doctorate, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2008 - 2014

Post Graduate, Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, Turkey 2004 - 2006

Under Graduate, İnönü Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1995 - 1999

Dissertations

Doctorate, Bir parabolik denklemin çözümlerinin sönümü, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 2014

Post Graduate, Parçalı sabit katsayılı bir hill denkleminin kararsızlık aralıkları üzerine, Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2006

Research Areas

Computer Sciences, algorithms, Distributed Systems, Mathematics, Computer Science, Differential Equations, Numerical Analysis, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Karabük Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2014 - Continues

Research Assistant, Karabük Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2009 - 2014

Courses

Ayrık Matematik, Under Graduate, 2016 - 2017, 2017 - 2018

Sayısal Analiz, Under Graduate, 2016 - 2017, 2017 - 2018

Diferensiyel Denklemler, Under Graduate, 2016 - 2017, 2017 - 2018

Algoritmalar, Under Graduate, 2016 - 2017, 2017 - 2018

Mühendislikte Nümerik Analiz, Post Graduate, 2016 - 2017, 2017 - 2018

Yüksek Lisans Tez Çalışması, Post Graduate, 2016 - 2017

Yüksek Lisans Uzmanlık Alanı, Post Graduate, 2016 - 2017

Advising Theses

SELÇUK B., Küre Üzerinde 3 Boyutlu Gezin Satıcı Problemi Çözümünde Yapay Atom Algoritması Optimizasyonunun Paralel Programlama ile Uygulaması, Post Graduate, A.Nur(Student), 2018
SELÇUK B., Türkçe Metinlerdeki Birliktelik Analizi, Post Graduate, Ö.Faruk(Student), 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Quenching behavior of a semilinear reaction-diffusion system with singular boundary condition**
SELÇUK B.
TURKISH JOURNAL OF MATHEMATICS, vol.40, pp.166-180, 2016 (Journal Indexed in SCI)
- II. **QUENCHING BEHAVIOR OF SEMILINEAR HEAT EQUATIONS WITH SINGULAR BOUNDARY CONDITIONS**
SELÇUK B., ÖZALP N.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2015 (Journal Indexed in SCI)
- III. **BLOW UP AND QUENCHING FOR A PROBLEM WITH NONLINEAR BOUNDARY CONDITIONS**
ÖZALP N., SELÇUK B.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2015 (Journal Indexed in SCI)
- IV. **The quenching behavior of a nonlinear parabolic equation with a singular boundary condition**
ÖZALP N., SELÇUK B.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.44, pp.615-621, 2015 (Journal Indexed in SCI)
- V. **THE QUENCHING BEHAVIOR OF A SEMILINEAR HEAT EQUATION WITH A SINGULAR BOUNDARY OUTFLOW**
SELÇUK B., ÖZALP N.
QUARTERLY OF APPLIED MATHEMATICS, vol.72, pp.747-752, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **On Hamiltonian Properties of Honeycomb Meshes**
ALTINTAŞ A. N. , SELÇUK B.
Anatolian Science - Bilgisayar Bilimleri Dergisi, vol.4, pp.29-37, 2019 (Refereed Journals of Other Institutions)
- II. **Perfect Matching of Fractal Honeycomb Meshes**
SELÇUK B., ALTINTAŞ A. N.
Anatolian Science - Bilgisayar Bilimleri Dergisi, vol.4, pp.38-46, 2019 (Refereed Journals of Other Institutions)
- III. **Quenching for a nonlinear diffusion equation with singular boundary outfluxes**
SELÇUK B., ÖZALP N.
Turkish Journal of Mathematics and Computer Science, vol.8, pp.65-69, 2018 (Other Refereed National Journals)
- IV. **Connected Cubic Network Graph**
SELÇUK B., KARCI A.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.20, pp.934-943, 2017
(Journal Indexed in ESCI)
- V. **Quenching problems for a semilinear reaction-diffusion system with singular boundary outflux**
SELÇUK B.
Tamkang Journal of Mathematics, vol.47, pp.323-337, 2016 (Journal Indexed in ESCI)
- VI. **QUENCHING FOR A SEMILINEAR HEAT EQUATION WITH A SINGULAR BOUNDARY OUTFLOW**
SELÇUK B., ÖZALP N.
International Journal of Applied Mathematics, vol.29, 2016 (Refereed Journals of Other Institutions)
- VII. **A new hypercube variant: Fractal Cubic Network Graph**
KARCI A., SELÇUK B.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.18, pp.32-41, 2015
(Journal Indexed in ESCI)
- VIII. **The Quenching Behavior of a Parabolic System**

SELÇUK B.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS,
vol.62, pp.29-35, 2013 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Parallel Artificial Atom Algorithm for Large Scale Travelling Salesman Problem**
ALTINTAŞ A. N. , SELÇUK B.
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), Karabük, Turkey, 11 - 13 May 2018, pp.844-850
- II. **Birliktelik Analizinde Yeni Bir Yaklaşım: Empati-Çıkar Yöntemi**
ACAR Ö. F. , SELÇUK B.
20. Akademik Bilişim Sempozyumu, Karabük, Turkey, 31 January - 02 February 2018
- III. **Yapay atom algoritması kullanarak bireye özgü öğün programlı beslenme çizelgesi hazırlanması**
ÇİFCİ E., AÇMA B., SELÇUK B.
2017 International Artificial Intelligence and Data Processing Symposium, IDAP 2017, Malatya, Turkey, 16 - 17 September 2017
- IV. **Lineer olmayan bir difüzyon denkleminin sönüm davranışı**
SELÇUK B., ÖZALP N.
30. Ulusal Matematik Sempozyumu, Ankara, Turkey, 6 - 09 September 2017, pp.63
- V. **Lineer Olmayan Sınır Şartlı Patlama ve Sönüm Problemi**
SELÇUK B., ÖZALP N.
10. Ankara Matematik Günleri, Ankara, Turkey, 11 - 12 June 2015
- VI. **Connected Cubic Network Graph and Its Hamiltonian Properties**
SELÇUK B., KARCI A.
2nd International Eurasian Conference on Mathematical Sciences and Applications, IECMSA-2013, Saraybosna, Bosnia And Herzegovina, 26 - 29 August 2013
- VII. **The Quenching Behavior of a Parabolic System with Singular Boundary Conditions**
SELÇUK B., KARCI A.
2nd International Eurasian Conference on Mathematical Sciences and Applications, IECMSA-2013, Saraybosna, Bosnia And Herzegovina, 26 - 29 August 2013
- VIII. **Singüler Sınır Şartlı Bir Yarı Lineer Parabolik Denklemin Çözümlerinin Sönüm Davranışı**
SELÇUK B., ÖZALP N.
7. Ankara Matematik Günleri, Turkey, 31 May - 01 June 2012
- IX. **Using gauss - Jordan elimination method with CUDA for linear circuit equation systems**
AYDIN ATASOY N., Sen B., SELÇUK B.
1st World Conference on Innovation and Software Development (INSODE), İstanbul, Turkey, 2 - 10 October 2011, vol.1, pp.31-35

Citations

Total Citations (WOS):17

h-index (WOS):2