

## Asst. Prof. ABDULLAH ERGÜN

### Personal Information

**Email:** aergun@cumhuriyet.edu.tr

**Web:** <https://avesis.cumhuriyet.edu.tr/aergun>

### Education Information

Doctorate, Tokat Gaziosmanpaşa University, Faculty Of Arts And Sciences, Turkey 2010 - 2015

Post Graduate, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, Turkey 2003 - 2006

Under Graduate, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, Turkey 1997 - 2001

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Differential Equations, Integral Equations, Operators

### Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Sivas Teknik Bilimler Meslek Yüksekokulu, Ulaştırma Hizmetleri, 2016 - Continues

Lecturer, Sivas Cumhuriyet University, Sivas Teknik Bilimler Meslek Yüksekokulu, Ulaştırma Hizmetleri, 2002 - 2016

### Academic and Administrative Experience

Director of Vocational School, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, İmranlı Myo, 2020 - Continues

Head of Department, Sivas Cumhuriyet University, Sivas Teknik Bilimler Meslek Yüksekokulu, Ulaştırma Hizmetleri, 2016 - Continues

Assistant Director of Vocational School, Sivas Cumhuriyet University, Sivas Teknik Bilimler Meslek Yüksekokulu, Ulaştırma Hizmetleri, 2015 - 2019

### Courses

Matematik - I, Associate Degree, 2019 - 2020

Matematik - II, Associate Degree, 2018 - 2019

Matematik - II, Associate Degree, 2018 - 2019

Matematik - I, Associate Degree, 2019 - 2020

Matematik - II, Associate Degree, 2017 - 2018

Matematik - II, Associate Degree, 2017 - 2018

Matematik - I, Associate Degree, 2018 - 2019

Matematik - I, Associate Degree, 2017 - 2018  
 Matematik - II, Associate Degree, 2016 - 2017  
 Matematik - I, Associate Degree, 2017 - 2018  
 Matematik - I, Associate Degree, 2017 - 2018  
 Matematik - II, Associate Degree, 2016 - 2017  
 Matematik - II, Associate Degree, 2011 - 2012  
 Matematik - II, Associate Degree, 2011 - 2012  
 Genel Matematik, Under Graduate, 2010 - 2011  
 Matematik - I, Under Graduate, 2007 - 2008  
 Matematik - I, Under Graduate, 2007 - 2008  
 Matematik II, Under Graduate, 2005 - 2006  
 Matematik II, Under Graduate, 2005 - 2006  
 Matematik-II, Under Graduate, 2005 - 2006  
 Matematik IV, Under Graduate, 2005 - 2006  
 Matematik, Associate Degree, 2005 - 2006  
 Matematik, Associate Degree, 2005 - 2006

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

- I. **Half-inverse problems for the quadratic pencil of the Sturm-Liouville equations with impulse**  
 AMIROV R., ERGÜN A., DURAK S.  
 NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.37, no.1, pp.915-924, 2021 (Journal Indexed in SCI)
- II. **INVERSE PROBLEM FOR SINGULAR DIFFUSION OPERATOR**  
 ERGÜN A.  
 MISKOLC MATHEMATICAL NOTES, vol.22, no.1, pp.173-192, 2021 (Journal Indexed in SCI)
- III. **A HALF-INVERSE PROBLEM FOR THE SINGULAR DIFFUSION OPERATOR WITH JUMP CONDITIONS**  
 Ergün A.  
 Miskolc Mathematical Notes, vol.2, no.21, pp.805-821, 2020 (Journal Indexed in SCI Expanded)
- IV. **Half inverse problem for diffusion operators with jump conditions dependent on the spectral parameter**  
 ERGÜN A., AMIROV R.  
 NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, 2020 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Asymptotics of Eigenvalues of the Matrix Diffusion Operators**  
 Ergün A.  
 Fundamentals of Contemporary Mathematical Sciences, vol.2, no.1, pp.1-7, 2021 (Refereed Journals of Other Institutions)
- II. **The Multiplicity of Eigenvalues of A Vectorial Singular Diffusion Equation with Discontinuous Conditions**  
 Ergün A.  
 Eastern Anatolian Journal of Science, vol.6, no.2, pp.22-34, 2020 (International Refereed University Journal)
- III. **Half inverse problems for the impulsive singular diffusion operator**  
 Amirov R., Ergün A.  
 Turkihs Journal of Science, vol.5, no.3, pp.186-198, 2020 (Refereed Journals of Other Institutions)
- IV. **The multiplicity of eigenvalues of a vectorial diffusion equations with discontinuous function inside a finite interval**

Ergün A.

Turkish Journal of Science, vol.5, no.2, pp.73-84, 2020 (Refereed Journals of Other Institutions)

**V. PROPERTIES OF THE SPECTRUM FOR THE SINGULAR DIFFUSION OPERATOR**

ERGÜN A., AMİROV R.

Asian Journal of Mathematics and Computer research, vol.2, no.26, pp.74-87, 2019 (Refereed Journals of Other Institutions)

**VI. Direct and Inverse problems for diffusion operator with discontinuity points**

ERGÜN A., AMİROV R.

Journal of Applied and Engineering Mathematics, vol.9, no.1, pp.9-21, 2019 (Journal Indexed in ESCI)

**VII. Integral Representation for Solution of Discontinuous Diffusion Operator with Jump Conditions**

ERGÜN A.

Cumhuriyet Science Journal, vol.39, no.4, pp.842-863, 2018 (Other Refereed National Journals)

**VIII. Integral representation for the Solutions Diffusion Equation with Discontinuity Function at Interval**

ERGÜN A., AMİROV R.

Asian Journal of Mathematics and Computer Research, vol.23, no.3, pp.124-140, 2018 (Refereed Journals of Other Institutions)

### **Refereed Congress / Symposium Publications in Proceedings**

**I. HALF INVERSE PROBLEMS FOR THE IMPULSE QUADRATIC PENCIL WITH THE DISCONTINUITY COEFFICIENT**

Ergün A., Amirov R.

ICMRS2020-3RD INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES: CURRENT TRENDS AND DEVELOPMENTS, Antalya, Turkey, 20 - 22 November 2020, pp.73-74

**II. The multiplicity of eigenvalues of a vectorial singular diffusion equations with discontinuous conditions**

ERGÜN A., AMİROV R.

2nd INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES, Antalya, Turkey, 27 - 30 April 2019, pp.1-19

**III. Inverse problems for diffusion operator with discontinuity function**

Ergün A.

ISMS-International Symposium on Multidisciplinary Studies, Paris, France, 26 - 27 June 2018, pp.3-4

**IV. ON GLM TYPE MAIN INTEGRAL EQUATION FOR SINGULAR STURM-LIOUVILLE OPERATOR WHICH HAS DISCONTINUOUS COEFFICIENT**

Topsakal N., Amirov R., Ergün A.

EJONS International Congress on Mathematic, Engineering and Natural Sciences-III, Mardin, Turkey, 21 - 22 April 2018, pp.1-2

**V. ARALIKTA SÜREKSİZLİK FONKSİYONUNA SAHİP DİFÜZYON DENKLEMİNİN ÇÖZÜMLERİ İÇİN İNTEGRAL GÖSTERİLİM**

Ergün A., Amirov R.

1. ULUSLARARASI İSTATİSTİK MATEMATİK VE ANALİTİK YÖNTEMLER KONGRESİ, İstanbul, Turkey, 2 - 03 March 2018, no.36934, pp.43-46