

Prof. MURAT ŞAT

Personal Information

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Address: Erzincan Binali Yıldırım Üniversitesi Yalnızbağ Yerleşkesi Fen Edebiyat Fakültesi Matematik Bölümü ERZİNCAN-TÜRKİYE

Education Information

Doctorate, Fırat University, Faculty Of Arts And Sciences, Matematik Anabilim Dalı, Turkey 2008 - 2012

Postgraduate, Atatürk University, Fen-Edebiyat Fakültesi, Matematik, Analiz Ve Fonksiyonlar Teorisi, Turkey 2005 - 2007

Undergraduate, Cumhuriyet Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Singüler Dirac Operatörünün Spektral Teorisi, Fırat Üniversitesi, Fen-Bilimleri Enstitüsü, Matematik, 2012

Postgraduate, Univalent Fonksiyonların Ters Katsayıları, Atatürk Üniversitesi, Fen-Bilimleri Enstitüsü, Matematik, Analiz Ve Fonksiyonlar Teorisi, 2007

Research Areas

Mathematics, Functional Analysis, General Mathematics, Functions of a Complex Variable, Operators, Special Functions, Potential Theory, Natural Sciences

Academic Titles / Tasks

Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2019 - Continues

Associate Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2014 - 2019

Assistant Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2012 - 2014

Research Assistant, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2006 - 2012

Research Assistant, Atatürk University, Erzincan, Fen-Edebiyat Fakültesi, Matematik, 2005 - 2006

Academic and Administrative Experience

Dean, Erzincan Binali Yıldırım University, Spor Bilimleri Fakültesi, 2021 - Continues

Manager of Research and Application Center, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2020 - Continues

Fakülte Kurulu Üyesi, Erzincan Binali Yıldırım University, Güzel Sanatlar Fakültesi, 2020 - Continues

Fakülte Yönetim Kurulu Üyesi, Erzincan Binali Yıldırım University, Güzel Sanatlar Fakültesi, 2020 - Continues
Erzincan Binali Yıldırım Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2019 - Continues
Member of the Senate, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik, 2019 - Continues
Erzincan Binali Yıldırım Üniversitesi, Tercan Meslek Yüksekokulu, 2018 - Continues
Deputy Head of Department, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2017 - 2020
Erasmus Coordinator, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2005 - 2006

Courses

Analiz, Undergraduate, 2021 - 2022

Advising Theses

ŞAT M., Sturm-Liouville Problemi için düzenlenmiş izin hesabı ve integral denklemleri metodu ile açılım teoreminin ispatı, Postgraduate, S.DEMİRKALE(Student), 2016

ŞAT M., Hipergeometrik Fonksiyonların Kuruluşu, Tek ve Çift Serili Hipergeometrik Fonksiyonların Kullanım Yeri ve Örnekleri, Postgraduate, E.BİLGİN(Student), 2015

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Erzincan Binali Yıldırım University, February, 2020

Appointment Academic Staff, Atama, Erzincan Binali Yıldırım Üniversitesi, August, 2019

Post Graduate, Tez savunma jüriliği, Cumhuriyet Üniversitesi, August, 2019

Post Graduate, Tez savunma jüriliği, Cumhuriyet Üniversitesi, April, 2019

Appointment Academic Staff, Yeniden Atama, Erzincan Binali Yıldırım Üniversitesi, December, 2018

Appointment Academic Staff, Yeniden Atama, Erzincan Binali Yıldırım Üniversitesi, December, 2018

Post Graduate, Tez savunma jüriliği, Adıyaman Üniversitesi, September, 2018

Appointment Academic Staff, Atama, Cumhuriyet Üniversitesi, July, 2018

Doctorate, Doktora Tez sınav jürisi, Kocaeli Üniversitesi, June, 2018

Appointment Academic Staff, Yeniden Atama, Erzincan Üniversitesi, April, 2018

Competence In Art, Doktora Yeterlilik Sınavı Jüri Üyeliği, Erzincan Üniversitesi, June, 2017

Appointment Academic Staff, Bilimsel Jüri Değerlendirilmesi, Erzincan Üniversitesi, December, 2016

Post Graduate, Tez Savunma Jürisi, Cumhuriyet Üniversitesi, March, 2016

Appointment Academic Staff, Bilimsel Jüri Değerlendirilmesi, Cumhuriyet Üniversitesi, January, 2016

Doctorate, Tez Savunma Jürisi, Gaziosmanpaşa Üniversitesi, September, 2015

Appointment Academic Staff, Bilimsel Jüri Değerlendirilmesi, Bitlis Eren Üniversitesi, August, 2015

Competence In Art, Doktora Yeterlilik Sınavı, Fırat Üniversitesi, May, 2015

Doctorate, Tez Savunma Jürisi, Fırat Üniversitesi, May, 2015

Appointment Academic Staff, Bilimsel Jüri Değerlendirilmesi, Erzincan Üniversitesi, April, 2015

Appointment Academic Staff, Bilimsel Jüri Değerlendirilmesi, Cumhuriyet Üniversitesi, March, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. Inverse nodal problem for the Sturm-Liouville operator with a weight

Zhang R., Şat M., Yang C.

Applied Mathematics-A Journal Of Chinese Universities Series B, vol.25, no.2, pp.193-202, 2020 (Peer-Reviewed Journal)

II. A partial inverse problem for the Sturm-Liouville operator on quantum graphs with a loop

Guan S., Yang C., Sat M.

Acta Mathematica Scientia, vol.2020, pp.1-11, 2020 (Peer-Reviewed Journal)

- III. **Inverse resonance problems with the discontinuous conditions**
Zhang R., Sat M., Yang C.
Applied Mathematics-A Journal Of Chinese Universities Series B, vol.2020, pp.1-17, 2020 (Peer-Reviewed Journal)
- IV. **Inverse nodal problems for integro-differential operators with a constant delay**
Sat M., Shieh C. T.
JOURNAL OF INVERSE AND ILL-POSED PROBLEMS, vol.27, pp.501-509, 2019 (Peer-Reviewed Journal)
- V. **On the half inverse spectral problem for an integro-differential operator**
Buterin S. A. , Sat M.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.25, no.10, pp.1508-1518, 2017 (Peer-Reviewed Journal)
- VI. **On the inverse problem for Sturm-Liouville operators with boundary conditions dependent on the spectral parameter**
Sat M.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol.2017, pp.1-7, 2017 (Peer-Reviewed Journal)
- VII. **A UNIQUENESS THEOREM ON THE INVERSE PROBLEM FOR THE DIRAC OPERATOR**
Wang Y. P. , Sat M.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2016 (Peer-Reviewed Journal)
- VIII. **Inverse problem for the quadratic pencil of the Sturm-Liouville equations**
Panakhov E. S. , Tas K., Sat M.
AIP ADVANCES, vol.1648, pp.8-15, 2015 (Peer-Reviewed Journal)
- IX. **Half Inverse Problem for the Sturm-Liouville Operator with Coulomb potential**
Sat M.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.8, no.2, pp.501-504, 2014 (Peer-Reviewed Journal)
- X. **Spectral problem for diffusion operator**
Sat M., Panakhov E. S.
APPLICABLE ANALYSIS, vol.93, pp.1178-1186, 2013 (Peer-Reviewed Journal)
- XI. **Inverse problem for the interior spectral data of the equation of hydrogen atom**
Panakhov E. S. , Sat M.
UKRAINIAN MATHEMATICAL JOURNAL, vol.64, no.11, pp.1716-1726, 2013 (Peer-Reviewed Journal)
- XII. **Reconstruction of potential function for Sturm-Liouville operator with Coulomb potential**
Panakhov E. S. , Sat M.
BOUNDARY VALUE PROBLEMS, 2013 (Peer-Reviewed Journal)
- XIII. **A Uniqueness Theorem for Bessel Operator from Interior Spectral Data**
Sat M., Panakhov E. S.
ABSTRACT AND APPLIED ANALYSIS, 2013 (Peer-Reviewed Journal)
- XIV. **On the Determination of the Singular Sturm-Liouville Operator from Two Spectra**
Panakhov E. S. , SAT M.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.84, no.1, pp.1-11, 2012 (Peer-Reviewed Journal)

Articles Published in Other Journals

- I. **Interior inverse problem for Sturm-Liouville operator with eigenparameter dependent boundary conditions**
ŞAT M.
Bulletin of Transilvania journal of mathematics, 2017 (Peer-Reviewed Journal)
- II. **Interior inverse problem for Sturm-Liouville operator with eigenparameter dependent boundary conditions**
Sat M.
Bulletin of the Transilvania University of Braşov – Series III Mathematics, Informatics, Physics, vol.10, no.59,

pp.129-143, 2017 (Peer-Reviewed Journal)

III. Wellposedness of the inverse problem for Dirac operator

Sat M., Panakhov E. S., Tas K.

Chinese Journal of Mathematics, vol.2013, pp.1-10, 2013 (Peer-Reviewed Journal)

IV. A hochstadt-lieberman theorem for integro-differential operator

Sat M., Yilmaz E.

International Journal of Pure and Applied mathematics, vol.88, pp.413-423, 2013 (Peer-Reviewed Journal)

V. On an inverse spectral problem for an integro-differential operator

Panakhov E. S., Sat M.

World Applied Sciences Journal, vol.18, pp.1571-1575, 2012 (Peer-Reviewed Journal)

VI. Inverse nodal problem for Sturm-Liouville operators with Coulomb potential

Sat M., Panakhov E. S.

International Journal of Pure and Applied mathematics, vol.80, pp.173-180, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. An inverse spectral problem for integro differential operators with frozen argument

SAT M.

4th International Conference on Computational Mathematics and Engineering Sciences, Antalya, Turkey, 20 - 22 April 2019, pp.34

II. "On the inverse spectral problem for Sturm-Liouville operator having special singularity

SAT M., Panahov E., KAYALAR M.

The 6th International Conference on Control and Optimization with Industrial Applications, Baku, Azerbaijan, 11 - 13 July 2018, pp.1-8

III. Inverse spectral problem for Dirac operators with frozen argument

SAT M.

3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkctc), 4 - 06 May 2018, pp.20

IV. The calculation of the regularization trace of the Schrödinger equation with energy-dependent potential

SAT M., Cetin M.

3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkctc), 4 - 06 May 2018, pp.11

V. On the half inverse spectral problem for Dirac operator with an integral delay

SAT M.

VI Congress of the Turkic World Mathematical Society, Astana, Kazakhstan, 2 - 05 October 2017, pp.15

VI. Inverse problem for Sturm-Liouville operator with eigenparameter dependent boundary conditions

Sat M.

28th Crimean Autumn Mathematical School-Symposium, Crimean, Russia, 17 - 29 September 2017, pp.133

VII. Inverse problem for Sturm-Liouville operator with singularity

Sat M.

2nd International Conference on Computational Mathematics and Engineering Sciences, İstanbul, Turkey, 20 - 22 May 2017, pp.142

VIII. Inverse problem for diffusion operators on the finite interval

ŞAT M., Panakhov E. S.

10th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), Narvik, Norway, 15 - 18 July 2014, vol.1637, pp.968-975

IX. A uniqueness theorem for singular Dirac operator

Panakhov E. S., Sat M.

2 st International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And

Herzegovina, 26 - 29 October 2013, pp.158

- X. **Half inverse problem for singular Dirac operator**
Panakhov E. S. , Sat M.
The 12 th International Workshop on Dynamical Systems and Applications, Ankara, Turkey, 12 - 15 October 2013, pp.41
- XI. **A uniqueness theorem for singular for singular differential operator**
Panakhov E. S. , Sat M.
The second international scientific conference actual problems of control theory, Bişkek, Kyrgyzstan, 24 - 28 September 2013, pp.87
- XII. **On the wellposedness problem for Dirac operator**
Sat M., Panakhov E. S.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 2 - 05 July 2013, pp.329
- XIII. **On the inverse problem fro singular Sturm-Liouville operators**
Panakhov E. S. , Sat M.
1 st International Eurasian Conference on Mathamtical Sciences and Applications, Piriştina, Kosova, 19 - 21 September 2012, pp.55
- XIV. **On the determination of the Diffusion operatör from two spectra**
Sat M., Panakhov E. S.
Mathematical Analysis Differential Equations and Their Applications, Mersin, Turkey, 4 - 09 September 2012, pp.93
- XV. **Inverse problem for interior spectral data of the Hydrogen equation**
Sat M., Panakhov E. S.
The 11 th International Workshop on Dynamical Systems and Applications, Ankara, Turkey, 26 - 28 July 2012, pp.22
- XVI. **On the determination of the singular Sturm-Liouville operatör from two spectra**
Panakhov E. S. , Sat M.
International Conference on Computational and experemential Engineering and Sciences, Zonguldak, Turkey, 6 - 10 September 2011, pp.49
- XVII. **On the Inverse Problem For Singular Sturm-Liouville Operator**
KAYALAR M., SAT M.
The 4th Congress Of The Turkic WorldMathematical Society(TWMS), Baku, Azerbaijan, 1 - 03 July 2011, pp.225
- XVIII. **A Hochstadt-Lieberman Theorem For Singular Sturm-Liouville Operator**
SAT M., KAYALAR M.
A Hochstadt-Lieberman Theorem For Singular Sturm-Liouville Operator, Baku, Azerbaijan, 1 - 03 July 2011, pp.268
- XIX. **On the inverse problem for singular canonical Dirac operator**
Panakhov E. S. , Sat M.
5. Ankara Matematik Günleri, Ankara, Turkey, 3 - 04 June 2010, pp.61

Metrics

Publication: 39

Citation (WoS): 39

Citation (Scopus): 35

H-Index (WoS): 4

H-Index (Scopus): 4