

Asst. Prof. HÜLYA KODAL SEVİNDİR

Personal Information

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Education Information

Doctorate, City University Of New York, Graduate Center, United States Of America 1997 - 2001

Post Graduate, Polytechnic University, Brooklyn Campus, Brooklyn Campus, United States Of America 1994 - 1997

Under Graduate, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1988 - 1992

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, HOMOTOPIC RESIDUAL CORRECTION ALGORITHMS FOR GENERAL AND STRUCTURED MATRICES, City University Of New York, Graduate Center, 2001

Post Graduate, EXISTANCE OF A WEAK SOLUTION FOR MIXED TYPE SYSTEMS OF PDEs, Polytechnic University, Brooklyn Campus, Brooklyn Campus, 1997

Academic Titles / Tasks

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2018 - Continues

Assistant Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2001 - 2018

Research Assistant, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1993 - 2001

Academic and Administrative Experience

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2017 - Continues

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2011 - Continues

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2006 - Continues

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2014 - 2017

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2011 - 2014

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2009 - 2012

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

- Solution of Space-Time-Fractional Problem by Shehu Variational Iteration Method**
ÇETİNKAYA S., DEMİR A., KODAL SEVİNDİR H.
ADVANCES IN MATHEMATICAL PHYSICS, vol.2021, 2021 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **The Analytic Solution of Initial Periodic Boundary Value Problem Including Sequential Time Fractional Diffusion Equation**
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COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, vol.11, pp.173-179, 2020 (Journal Indexed in ESCI)
- II. **THE ANALYTIC SOLUTION OF INITIAL BOUNDARY VALUE PROBLEM INCLUDING TIME FRACTIONAL DIFFUSION EQUATION**
Çetinkaya S., Demir A., Kodal Sevindir H.
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, vol.35, no.1, pp.243-252, 2020 (Journal Indexed in ESCI)
- III. **ON NUMERICAL SOLUTIONS OF FUZZY DIFFERENTIAL EQUATIONS**
KODAL SEVİNDİR H., ÇETİNKAYA S., TABAK G.
International Journal of Development Research, vol.8, pp.22971-22979, 2018 (Refereed Journals of Other Institutions)
- IV. **Makine öğrenmesi algoritmaları ve dalgacık dönüşümü ile EKG sinyalinden özellik çıkarımı**
KODAL SEVİNDİR H., ÇETİNKAYA S., YAZICI C.
Journal of Balıkesir University Institute of Science and Technology, 2018 (Other Refereed National Journals)
- V. **Asymptotic Analysis of an Affine Transformation in the Supply of Missing Data**
KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.
Sakarya University Journal of Science, vol.22, 2018 (Other Refereed National Journals)
- VI. **Mathematics Anxiety A Case Study for Kocaeli University**
KODAL SEVİNDİR H., YAZICI C.
Procedia - Social and Behavioral Sciences,, vol.152, pp.637-641, 2014 (Refereed Journals of Other Institutions)
- VII. **Mathematics Anxiety of Secondary School Students A Case Study for Kocaeli Area**
KODAL SEVİNDİR H., YAZICI C.
Procedia - Social and Behavioral Sciences, vol.152, pp.630-636, 2014 (Refereed Journals of Other Institutions)
- VIII. **A Study on Physical Exercise Habit**
KODAL SEVİNDİR H., YAZICI C.
Procedia - Social and Behavioral Sciences, vol.152, pp.648-652, 2014 (Refereed Journals of Other Institutions)
- IX. **Examining the Factors Affecting the Selection of Mathematics Profession A Case Study**
KODAL SEVİNDİR H., YAZICI C.
Procedia - Social and Behavioral Sciences, vol.152, pp.642-647, 2014 (Refereed Journals of Other Institutions)
- X. **Spectral Analysis Of EEG Signals By Using Wavelet And Harmonic Transforms**
SİDDİQİ A. B. H. , KODAL SEVİNDİR H., YAZICI C., KUTLU A., ASLAN Z.
İstanbul Aydın Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2012 (Other Refereed National Journals)
- XI. **A Wavelet-based Energetic Approach for the Analysis of Electroencephalogram**
SİDDİQİ A. B. H. , KODAL SEVİNDİR H.
SQU Journal for Science, vol.17, no.2, pp.232-244, 2012 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Algorithmic Approaches for ECG Analysis**
KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.
in: Mathematical Modeling of Real World Problems: Interdisciplinary Studies in Applied Mathematics, , Editor, NOVA Science Publishers, pp.143-197, 2019
- II. **RELEVANCE OF WAVELETS AND INVERSE PROBLEMS TO BRAIN**
siddiqi a. h. , KODAL SEVİNDİR H., ASLAN Z., YAZICI C.
in: MATHEMATICS IN SCIENCE AND TECHNOLOGY Mathematical Methods Models and Algorithms in Science and Technology, , Editor, World Scientific Publishing , pp.402-429, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **DETERMINATION OF AMYOTROPHIC LATERAL SCLEROSIS DISEASE USING K NEAREST NEIGHBORHOOD ALGORITHM**
ÇETİNKAYA S., DEMİR A., KODAL SEVİNDİR H.
International Marmara Sciences Congress (Spring 2019), Kocaeli, Turkey, 26 - 28 April 2019, pp.1470-1474
- II. **HEART ATTACK PREDICTION BY USING SUPPORT VECTOR MACHINE**
ÇETİNKAYA S., DEMİR A., KODAL SEVİNDİR H.
International Marmara Sciences Congress (Spring 2019), Kocaeli, Turkey, 26 - 28 April 2019, pp.1579-1583
- III. **Destek Vektor Makineleri Ile AritmiSiniflandırılması**
ÇETİNKAYA S., DEMİR A., KODAL SEVİNDİR H.
ULUSLARARASI MARMARA FEN VE SOSYALBİLİMLER KONGRESİ, 23 - 25 November 2018, pp.1629-1633
- IV. **On Applications OfMultidimensional Affine Transform In The Supply Of Missing Data**
YAZICI C., ÇETİNKAYA S., KODAL SEVİNDİR H.
The International Conference On Analysis And Its Applications, 11 - 14 September 2018
- V. **Qrs Detection Via MachineLearning Algorithms**
KODAL SEVİNDİR H., ÇETİNKAYA S., YAZICI C.
International Conference On Mathematics?anIstanbul Meeting For World Mathematicians, 3 - 06 July 2018
- VI. **Comparison Of Kernel Functions InArrhythmia Classification**
ÇETİNKAYA S., KODAL SEVİNDİR H., YAZICI C.
International Conference On Mathematics?an Istanbul Meeting For World Mathematicians, 3 - 06 July 2018
- VII. **Decision Tree Based ArrhythmiaClassification,**
ÇETİNKAYA S., KODAL SEVİNDİR H., YAZICI C.
International Conference On Applied Analysis AndMathematical Modeling Icaamm18, 20 - 24 June 2018
- VIII. **On Wavelet Selection for Inpainting Problem**
YAZICI C., KODAL SEVİNDİR H., ÇETİNKAYA S.
International Conference on Applied Analysis and Mathematical Modeling, 20 - 24 June 2018
- IX. **İkinci Mertabeden Bulanık Başlangıç değer probleminin Homotopi analiz metodu ile çözümü**
BAYRAK M. A. , Tabak G., ÇETİNKAYA S., KODAL SEVİNDİR H.
UMTEB 3.Uluslararası mesleki ve teknik bilimler kongresi, 02 June 2018
- X. **Bulanık Cauchy problemlerinin sayısal çözümü**
KODAL SEVİNDİR H., ÇETİNKAYA S., Tabak G., BAYRAK M. A.
UMTEB 3.Uluslararası mesleki ve teknik bilimler kongresi, 2 - 03 June 2018
- XI. **COMPARISON AMONG WAVELETS FOR PREPROCESSING OF ECG SIGNAL**
KODAL SEVİNDİR H., ÇETİNKAYA S., YAZICI C.
9th International Conference on Image Processing, Wavelet and Applications, Kars, Turkey, 5 - 08 November 2017
- XII. **USAGE OF WAVELETS FOR HIDING BINARYIMAGES**
KODAL SEVİNDİR H., SAYIN N.
9th International Conference on Image Processing, 5 - 08 November 2017
- XIII. **ON APPLICATIONS OF IMAGE INPAINTING WITH ELLIPTIC MASKING FOR MEDICAL IMAGES**
KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.
9th International Conference on Image Processing, Wavelet and Applications, Kars, Turkey, 5 - 08 November 2017
- XIV. **On Problems of ECG Feature Extraction**
KODAL SEVİNDİR H., ÇETİNKAYA S., YAZICI C.
International Conference on Applied Analysis and Mathematical Modeling ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017
- XV. **Image Inpainting Asymptotic Analysis for Horizontal Mask**
KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.
International Conference on Applied Analysis and Mathematical Modeling ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017
- XVI. **On Choosing a Suitable Wavelet for ECG Artefact Reduction**

KODAL SEVİNDİR H., ÇETİNKAYA S., YAZICI C.

International Conference on Applied Analysis and Mathematical Modeling ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017

XVII. Image Inpainting by Shearlets and Wavelets via Elliptic Masking

KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.

International Conference on Applied Analysis and Mathematical Modeling ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017

XVIII. Qrs Detection Based on Wavelet Transform

KODAL SEVİNDİR H., ÇETİNKAYA S., YAZICI C.

The 8th International conference on Image Processing, Wavelet and Applications (IWW2016), İstanbul, Turkey, 22 - 24 September 2016

XIX. Colour Visual Cryptography Based on Discrete Wavelet Transform

KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.

8th International conference on Image Processing, Wavelet and Applications (IWW2016), İstanbul, Turkey, 22 - 24 September 2016

XX. Wavelet transform based noise removal from ECG signal for accurate heart rate detection using ECG

KODAL SEVİNDİR H., ÇETİNKAYA S.

Tıp Teknolojileri Ulusal Kongresi, TIPTEKNO'15, Muğla, Turkey, 15 - 18 October 2015

XXI. Image Inpainting via Shearlets

KODAL SEVİNDİR H.

Recent Advances in Circuits, Systems and Automatic Control, Konya, Turkey, 20 - 22 May 2015, pp.74-78

XXII. EKG Sinyalinden Doğru Kalp Atım Hızı Algılama için Dalgacık Dönüşümü Tabanlı Gürültü Giderme

KODAL SEVİNDİR H., ÇETİNKAYA S.

Tıp Teknolojileri Ulusal Kongresi, Muğla, Turkey, 15 - 18 October 2015

XXIII. Image Inpainting by Shearlets and Wavelets

KODAL SEVİNDİR H., YAZICI C.

Applied Mathematics & Approximation Theory - AMAT 2015, Ankara, Turkey, 28 - 31 May 2015

XXIV. Image Inpainting by Shearlets and Wavelets H Kodal Sevindir

KODAL SEVİNDİR H., YAZICI C.

3rd International Conference on Applied Mathematics and Approximation Theory, 28 - 31 May 2015

XXV. A Study on Physical Exercise Habit

KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.

Educational Researches and Publications Associations Congress, İstanbul, Turkey, 6 - 08 June 2014

XXVI. Mathematics anxiety of secondary school students: A case study for Kocaeli area

KODAL SEVİNDİR H., YAZICI C., Yazici V.

ERPA International Congress on Education (ERPA), İstanbul, Turkey, 6 - 08 June 2014, vol.152, pp.630-636

XXVII. Mathematics anxiety: A case study for Kocaeli University

KODAL SEVİNDİR H., YAZICI C., Yazici V.

ERPA International Congress on Education (ERPA), İstanbul, Turkey, 6 - 08 June 2014, vol.152, pp.637-641

XXVIII. Examining the factors affecting the selection of mathematics profession: A case study

KODAL SEVİNDİR H., YAZICI C.

ERPA International Congress on Education (ERPA), İstanbul, Turkey, 6 - 08 June 2014, vol.152, pp.642-647

Supported Projects

KODAL SEVİNDİR H., Project Supported by Higher Education Institutions, EEG SİNYALLERİNİN SPEKTRAL ANALİZİNDE DALGACIK VE FOURİER DÖNÜŞÜMLERİ, 2010 - 2011

Citations

Total Citations (WOS):5

h-index (WOS):1