

## **Personal Information**

**Email:** hkodal@kocaeli.edu.tr

## **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

## **Professional Experience**

Vice Dean, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2017 - Continues

Erasmus Coordinator, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2011 - Continues

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

Vice Dean, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2014 - 2017

Vice Dean, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2011 - 2014

Deputy Head of Department, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2009 - 2012

## **Articles Published in Other Journals**

- **The Analytic Solution of Initial Periodic Boundary Value Problem Including Sequential Time Fractional Diffusion Equation**  
ÇETİNKAYA S., DEMİR A., KODAL SEVİNDİR H.  
COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, vol.11, pp.173-179, 2020 (Journal Indexed in ESCI)
- **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)

- **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)
- **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)
- **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)
- **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)
- **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)
- **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)

## Book & Book Chapters

- **in: Mathematical Modeling of Real World Problems: Interdisciplinary Studies in Applied Mathematics**  
KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.  
Algorithmic Approaches for ECG Analysis, , Editor, NOVA Science Publishers, pp.143-197, 2019

## Refereed Congress / Symposium Publications in Proceedings

- **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 Nisan 2019, pp.1470-1474
- **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 Nisan 2019, pp.1579-1583
- **Destek Vektor Makineleri İle Aritmi Sınıflandırılması**  
ÇETİNKAYA S., DEMİR A., KODAL SEVİNDİR H.  
ULUSLARARASI MARMARA FEN VE SOSYAL BİLİMLER KONGRESİ, 23 - 25 Kasım 2018, pp.1629-1633
- **On Applications Of Multidimensional 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 Eylül 2018
- **Qrs Detection Via Machine Learning Algorithms**  
KODAL SEVİNDİR H., ÇETİNKAYA S., YAZICI C.  
International Conference On Mathematics ?an Istanbul Meeting For World Mathematicians, 3 - 06 Temmuz 2018
- **Comparison Of Kernel Functions In Arrhythmia Classification**  
ÇETİNKAYA S., KODAL SEVİNDİR H., YAZICI C.  
International Conference On Mathematics ?an Istanbul Meeting For World Mathematicians, 3 - 06 Temmuz 2018
- **Decision Tree Based Arrhythmia Classification,**  
ÇETİNKAYA S., KODAL SEVİNDİR H., YAZICI C.  
International Conference On Applied Analysis And Mathematical Modeling Icaamm18, 20 - 24 Haziran 2018
- **On Wavelet Selection for Inpainting Problem**  
YAZICI C., KODAL SEVİNDİR H., ÇETİNKAYA S.  
International Conference on Applied Analysis and Mathematical Modeling, 20 - 24 Haziran 2018

- **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 Haziran 2018
- **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 Haziran 2018
- **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 Kasım 2017
- **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 Kasım 2017
- **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 Temmuz 2017
- **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 Temmuz 2017
- **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 Temmuz 2017
- **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 Temmuz 2017
- **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 Eylül 2016
- **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 Eylül 2016
- **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 Ekim 2015
- **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 Mayıs 2015
- **A Study on Physical Exercise Habit**  
KODAL SEVİNDİR H., YAZICI C., ÇETİNKAYA S.  
Educational Researches and Publications Associations Congress, İstanbul, Turkey, 6 - 08 Haziran 2014
- **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
- **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
- **Mathematics anxiety: A case study for Kocaeli University**  
KODAL SEVİNDİR H., YAZICI C., Yazici V.

## **Supported Projects**

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