

Prof. Muhammet KURULAY

Personal Information

Place of birth: Of

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Post Address: Yıldız Teknik Üniversitesi, Kimya Metalürji Fakültesi, Matematik Mühendisliği, Davutpaşa Kampüsü
Esenler/Istanbul

Biography

Professor Dr. Muhammet Kurulay was born in the district of Of Trabzon. He completed his secondary and high school education in 1997 in Istanbul, his undergraduate education in A.U.(2001), and his master and doctorate education at Y.T.U. (2009). Between 2010 and 2011, he was a visiting lecturer at the University of Connecticut, USA. He gave lectures at various universities. He still continues his studies in Yıldız Technical University, Department of Mathematics Engineering.

More than 40 articles are scanned by international index and he presented oral papers at more than 50 international conferences. In addition to being the editor-in-chief of 3 academic journals, he served in many scientific referees and scientific jury members in academic journals. He advised 2 graduate and 2 doctoral students who graduated. His work has received around 340 citations. He has 6 internationally published books and 2 national book chapters. He has worked as an executive in 4 technoparks projects and 3 BAP projects in universities. (until October 2019)

Abroad and turkey dozens of international conferences in academic and professional fields in Turkey, and has conducted seminars organization has done.

He is married and has 2 children.

Education Information

Post Doctorate, University Of Connecticut, Mathematics, Mathematics, United States Of America 2010 - 2011

Doctorate, Yıldız Teknik Üniversitesi, Fen Edebiyat F., Matematik, Turkey 2006 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Numerical solutions of time-fractional non-linear partial differential equations, Yıldız Technical University, Faculty of Arts & Science, Department of Mathematics, 2009

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Science, Differential Equations, General Mathematics, Partial Differential Equations

Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2020 - Continues
Associate Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2014 - 2019
Assistant Professor, Yıldız Technical University, Faculty of Arts & Science, Department of Mathematics, 2009 - 2014
Research Assistant, Yıldız Technical University, Faculty of Arts & Science, Department of Mathematics, 2005 - 2009

Professional Experience

Fakülte Kurulu Üyesi, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Mathematics Engineering, 2014 - 2016
Fakülte Yönetim Kurulu Üyesi, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Mathematics Engineering, 2014 - 2016
Vice Dean, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, 2014 - 2016
Yönetim Kurulu Üyesi, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2014 - 2016
Araştırma Görevlisi Fakülte Temsilcisi, Yıldız Technical University, Faculty of Arts & Science, 2007 - 2008

Courses

Kısmi diferansiyel Denklemler, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019
Bitirme Çalışması, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019
Temel Bilgisayar Bilimleri, Under Graduate, 2018 - 2019
Matematik, Under Graduate, 2017 - 2018, 2018 - 2019
Matematik Mühendialığında Tasarım Uygulamaları, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019
C Programlamaya Giriş, Under Graduate, 2017 - 2018
Matematik Tarihi, Under Graduate, 2018 - 2019
Analiz 1, Under Graduate, 2014 - 2015
Diferansiyel Denklemler, Under Graduate, 2015 - 2016
Bitirme Tezi, Under Graduate, 2013 - 2014
Diferansiyel Denklemler, Under Graduate, 2014 - 2015
Matematik, Under Graduate, 2013 - 2014
Sayısal Analiz 1, Under Graduate, 2014 - 2015
Uzmanlık Alan Dersi (Yüksek Lisans, Post Graduate, 2012 - 2013
ADVANCE NUMARİCAL ANALYSIS, Doctorate, 2012 - 2013
DİFERANSİYEL DENKLEMLER, Under Graduate, 2013 - 2014
Matematik Mühendialığında Tasarım Uygulamaları, Under Graduate, 2013 - 2014
Matematik 1, Under Graduate, 2011 - 2012, 2012 - 2013
Uzmanlık Alan Dersi (Doktora), Doctorate, 2012 - 2013
Matematik 2, Under Graduate, 2009 - 2010, 2011 - 2012, 2012 - 2013
Kısmi Diferansiyel Denklemlerde Nümerik Metodlar, Doctorate, 2012 - 2013
Differential Equations, Under Graduate, 2009 - 2010, 2011 - 2012, 2012 - 2013
SOLVING OF DIFFERENTIAL EQUATIONS, Under Graduate, 2011 - 2012
Matematik, Under Graduate, 2011 - 2012

Advising Theses

Kurulay M., Krylov Method for Solution of Fractional Differential Equations, Doctorate, İ.ŞENTÜRK(Student), Continues

Kurulay M., Application Development Using Data Mining Techniques, Post Graduate, G.SEDEF(Student), Continues
Kurulay M., Indexing with DataMatrix System, Doctorate, M.YEŞİL TEPE(Student), Continues
Kurulay M., Process Management and Process Improvement, Post Graduate, Z.EZGİ(Student), Continues
Kurulay M., Guebbaib H., Analytical and numerical study of nonlinear Volterra integro-differential equations with new Caputo fractional derivative, Doctorate, M.BEKKOUCHE(Student), Continues
Kurulay M., LARGE SCALE MATRIX DIFFERENTIAL EQUATIONS FOR KRYLOV METHODS, Doctorate, Y.DERİCİOĞLU(Student), 2019
Kurulay M., Hybridizable non-continuous Galerkin method for some fractional differential equations, Doctorate, M.FATİH(Student), 2016
Kurulay M., Klein-Gordon denkleminin sonlu farklar metodu ile çözümü, Post Graduate, H.BERAN(Student), 2015
Kurulay M., Kesirli mertebeden Burger denkleminin sonlu fark yöntemi ile çözümü ve analizi, Post Graduate, İ.ŞENTÜRK(Student), 2014

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

- **On the solvability fractional of a boundary value problem with new fractional integral**
Bekkouche M. M. , Guebbai H., KURULAY M.
JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, no.2, 2020 (Journal Indexed in SCI)
- **On the Weakly Singular Integro-Differential Nonlinear Volterra Equation Depending in Acceleration Term**
Kurulay M.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.40, pp.1-11, 2020 (Journal Indexed in SCI)
- **An efficient indexing for Internet of Things massive data based on cloud-fog computing**
Benrazek A., Kouahla Z., Farou B., Ferrag M. A. , Seridi H., KURULAY M.
TRANSACTIONS ON EMERGING TELECOMMUNICATIONS TECHNOLOGIES, vol.31, 2020 (Journal Indexed in SCI)
- **A computational method for large-scale differential symmetric Stein equation**
Dericioglu Y., Kurulay M.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.42, pp.5438-5445, 2019 (Journal Indexed in SCI)
- **A hybridizable discontinuous Galerkin method for a class of fractional boundary value problems**
Karaaslan M. F. , Celiker F., Kurulay M.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.333, pp.20-27, 2018 (Journal Indexed in SCI)
- **Fake and Real Massaging at the Same Time with QR Code in Web Services for Different Users**
Yeşiltepe M., Kurulay M.
SECURITY AND COMMUNICATION NETWORKS, 2018 (Journal Indexed in SCI)
- **Approximate solution of the Bagley-Torvik equation by hybridizable discontinuous Galerkin methods**
Karaaslan M. F. , Celiker F., Kurulay M.
APPLIED MATHEMATICS AND COMPUTATION, vol.285, pp.51-58, 2016 (Journal Indexed in SCI)
- **Fractional Calculus and Its Applications in Applied Mathematics and Other Sciences**
Ray S. S. , Atangana A., Noutchie S. C. O. , Kurulay M., Bildik N., Kilicman A.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2014 (Journal Indexed in SCI)
- **A Novel Matching of MR Images Using Gabor Wavelets**
Akinlar M. A. , Kurulay M., Seçer A., Celenk M.
IETE TECHNICAL REVIEW, vol.30, pp.129-133, 2013 (Journal Indexed in SCI)
- **Computational Solution of a Fractional Integro-Differential Equation**
Kurulay M., Akinlar M. A. , Ibragimov R.
ABSTRACT AND APPLIED ANALYSIS, 2013 (Journal Indexed in SCI)
- **A Novel Method for Analytical Solutions of Fractional Partial Differential Equations**
Akinlar M. A. , Kurulay M.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2013 (Journal Indexed in SCI)
- **A New Approximate Analytical Solution of Kuramoto - Sivashinsky Equation Using Homotopy Analysis Method**
Kurulay M., Secer A., Akinlar M. A.

- APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, pp.267-271, 2013 (Journal Indexed in SCI)
- **Approximate analytic solutions of the modified Kawahara equation with homotopy analysis method**
Kurulay M.
ADVANCES IN DIFFERENCE EQUATIONS, 2012 (Journal Indexed in SCI)
 - **Curvature-driven diffusion-based mathematical image registration models**
Akinlar M. A. , Kurulay M., Seer A., Celenk M.
ADVANCES IN DIFFERENCE EQUATIONS, 2012 (Journal Indexed in SCI)
 - **Some properties of the Mittag-Leffler functions and their relation with the Wright functions**
Kurulay M., Bayram M.
ADVANCES IN DIFFERENCE EQUATIONS, 2012 (Journal Indexed in SCI)
 - **An efficient computer application of the sinc-Galerkin approximation for nonlinear boundary value problems**
Seer A., Kurulay M., Bayram M., Akinlar M. A.
BOUNDARY VALUE PROBLEMS, 2012 (Journal Indexed in SCI)
 - **Efficient Variational Approaches for Deformable Registration of Images**
Akinlar M. A. , Kurulay M., Seer A., Bayram M.
ABSTRACT AND APPLIED ANALYSIS, 2012 (Journal Indexed in SCI)
 - **Solving the fractional nonlinear Klein-Gordon equation by means of the homotopy analysis method**
KURULAY M.
ADVANCES IN DIFFERENCE EQUATIONS, 2012 (Journal Indexed in SCI)
 - **The sinc-Galerkin method and its applications on singular Dirichlet-type boundary value problems**
Seer A., Kurulay M.
BOUNDARY VALUE PROBLEMS, pp.1-14, 2012 (Journal Indexed in SCI)
 - **A computational method using multiresolution for volumetric data integration**
Akinlar M. A. , Kurulay M., Seer A., Celenk M.
BOUNDARY VALUE PROBLEMS, 2012 (Journal Indexed in SCI)
 - **Approximate analytical solution for the fractional modified KdV by differential transform method**
KURULAY M., Bayram M.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.15, pp.1777-1782, 2010 (Journal Indexed in SCI)
 - **Solving a system of nonlinear fractional partial differential equations using three dimensional differential transform method**
KURULAY M., İBRAHİMOĞLU B. A. , Bayram M.
INTERNATIONAL JOURNAL OF THE PHYSICAL SCIENCES, vol.5, pp.906-912, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Ascending hierarchical classification for camera clustering based on FoV overlaps for WMSN**
Benrazek A., Farou B., Seridi H., Kouahla Z., KURULAY M.
IET WIRELESS SENSOR SYSTEMS, vol.9, no.5, pp.382-388, 2019 (Journal Indexed in ESCI)
- **NUMERICAL SOLUTION OF TIME AND SPACE FRACTIONAL BURGER'S EQUATION WITH FINITE DIFFERENCE METHOD**
Şentürk İ., KURULAY M.
Journal of Engineering Technology and Applied Sciences, vol.4, pp.71-83, 2019 (Refereed Journals of Other Institutions)
- **Efficient Camera Clustering Method Based on Overlapping FoVs for WMSNs**
Eddine B. A. , Brahim F., Kurulay M.
International Journal of Informatics and Applied Mathematics, vol.1, pp.10-23, 2018 (Refereed Journals of Other Institutions)
- **On the Study of Nonlinear Fractional Differential Equations on Unbounded Interval**
Hallaci A., Boulares ., Kurulay M.
General Letters in Mathematics, vol.5, pp.111-117, 2018 (Refereed Journals of Other Institutions)

- **Low-rank approximate solutions to large-scale differential matrix Riccati equations**
Güldoğan Y., Hached M., Jbilou K., Kurulay M.
Applicationes Mathematicae, vol.45, pp.233-254, 2018 (Refereed Journals of Other Institutions)
- **Sort of Turkey's top 20 banks by cipher suite value**
Yeşiltepe M., Yılmaz B., Yeni Ö., Kurulay M.
Global Journal Of Computer Sciences, vol.5, pp.74-79, 2015 (Refereed Journals of Other Institutions)
- **Compression internet access methods of Universities in Turkey**
Yeşiltepe M., Yılmaz I., Kurulay M.
Global Journal Of Computer Sciences, vol.5, pp.68-73, 2015 (Refereed Journals of Other Institutions)
- **WCF'DE THROTTLING (AZALTMA) MEKANİZMASININ PROTOKOL BAZLI İNCELENMESİ**
Yeşiltepe M., Kurulay M.
Uluslararası Bilgi Güvenliği Mühendisliği Dergisi, vol.1, pp.27-32, 2015 (Refereed Journals of Other Institutions)
- **An Application of the Differential Transform Method to the Biochemical Reaction Systems**
Bayram M., Yıldırım K., Kurulay M.
Applied Mechanics and Materials, vol.319, pp.151-156, 2013 (Refereed Journals of Other Institutions)
- **A Fast and Efficient 3D Medical Image Registration Method**
Akinlar M. A. , Kurulay M., Seçer A.
PRZEGLAD ELEKTROTECHNICZNY, vol.89, pp.199-202, 2013 (Refereed Journals of Other Institutions)
- **Comparison of Numerical Solutions of Time-Fractional Reaction-Diffusion Equations**
Kurulay M., Bayram M.
MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES, vol.3, pp.317-327, 2012 (Refereed Journals of Other Institutions)
- **Metabolic Control Analysis in Enzymes Kinetics**
KURULAY M., BAYRAM M.
MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES, vol.6, pp.49-59, 2012 (Refereed Journals of Other Institutions)
- **Variational Iteration Method For Solving Nonlinear Fractional Integro Differential Equations**
Kurulay M., Seçer A.
Int. J. of Computer Science and Emerging Technologies, vol.2, pp.18-20, 2011 (Refereed Journals of Other Institutions)
- **Power Series Method for Linear Partial Differential Equations of Fractional Order**
Kurulay M., Bayram M.
Communications in Mathematics and Applications, vol.1, pp.71-76, 2010 (Refereed Journals of Other Institutions)
- **The approximate and exact solutions of the space and time fractional Burgers equations**
Kurulay M.
International Journal of Research and Reviews in Applied Sciences, vol.3, pp.257-263, 2010 (Refereed Journals of Other Institutions)
- **A novel power series method for solving second order partial differential equations**
Kurulay M., Bayram M.
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.2, pp.268-277, 2009 (Refereed Journals of Other Institutions)
- **Solution of Stiff Systems by using Differential Transform Method**
GÜZEL N., KURULAY M.
Dumlupınar Üniversitesi Fen Bilimleri Dergisi, pp.49-59, 2008 (National Refereed University Journal)
- **SOLUTION OF THE DIFFERENTIAL ALGEBRAIC EQUATIONS WITH INDEX 3 USING DIFFERENTIAL TRANSFORM METHOD**
Murat O., Kurulay M., Bayram M.
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, pp.25-30, 2008 (National Refereed University Journal)
- **Application of the Differential Transform Method to Differential-Algebraic Equations With Index 2**
OSMANOĞLU M., KURULAY M., BAYRAM M.
AKÜ-Fen Bilimleri Dergisi, vol.8, pp.259-268, 2008 (National Refereed University Journal)
- **POWER SERIES SOLUTION OF DIFFERENTIAL ALGEBRAIC EQUATION**
Kurulay M., Bayram M.

Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, pp.39-44, 2007 (National Refreed University Journal)

• **SABİT KATSAYILI LINEER DİFERENSİYEL CEBİRSEL DENKLEMLERİN DİFERENSİYEL DONUSUM YONTEMİ İLE NUMERİK COZUMU**

OSMANOĞLU M., KURULAY M., BAYRAM M.

Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, pp.5-53, 2007 (National Refreed University Journal)

Book & Book Chapters

- **International congress on fundamental and applied sciences 2019 book of abstract**
Kurulay M., Oztas E. S.
Muhammet Kurulay, İstanbul, 2019
- **in: Mühendislikte Yeni Yaklaşımlar**
KURULAY M., YEŞİLTEPE M., ÇAKIR N. N.
- Türk Spor Yazarlarının Yazıları ve Twitter Hesapları Üzerinden Tanınabilirliği, Kerimak ÖNER M. N., UZUN R. O.,
Editor, Berikan Yayınevi, Ankara, pp.1-254, 2019
- **International congress on fundamental and applied sciences 2018 book of abstract**
Kurulay M., Oztas E. S.
Muhammet Kurulay, İstanbul, 2018
- **Methods in Computational and Applied Mathematics**
Kurulay M.
Auris Reference Limited; 1st edition (April 1, 2017), London, 2017
- **International congress on fundamental and applied sciences 2017 book of abstract**
Kurulay M., Öztaş E. S.
Muhammet Kurulay, İstanbul, 2017
- **International congress on fundamental and applied sciences 2016 book of abstract**
Kurulay M.
Muhammet Kurulay, İstanbul, 2016
- **Yurtdışı Doktora Programlarının İncelenmesi ve Değerlendirilmesi**
KURULAY M.
Üniversite Öğretim Elemanları Dayanışma Derneği, İstanbul, 2016

Refereed Congress / Symposium Publications in Proceedings

- **Mühendislik**
KURULAY M.
Conference on Innovative Trends in Computer Science (CITCS'xx2019), 20 - 21 Kasım 2019
- **Hexadecimal Hash Value Hiding in a Message in Web Service against Deep Learning**
YEŞİLTEPE M., Jamil A., Rasheed J., KURULAY M.
11th International Conference on Electrical and Electronics Engineering, ELECO 2019, Bursa, Turkey, 28 - 30
November 2019, pp.693-697
- **Big IoT Data Indexing: Architecture, Techniques and Open Research Challenges**
Seridi H., Kouahla Z., KURULAY M., Ferrag M. A.
2019 International Conference on Networking and Advanced Systems (ICNAS), Annaba, Algeria, 26 - 27 Haziran
2019
- **Low Rank Approximate Solutions to Large-Scale Differential Matrix Riccati Equations**
Kurulay M.
First-edition-doctoral-days-informatics-and-applied-mathematics, Guelma, Algeria, 3 - 04 Ekim 2018
- **Model Reductions in Large Scale Fractional Dynamical Systems with Applications**
Kurulay M.
first-edition-doctoral-days-informatics-and-applied-mathematics, Guelma, Algeria, 03 Ekim 2018, pp.1
- **Extended Trial Equation Method to Camassa-Holm Equation**

Karaaslan M. F. , Kurulay M.

International Congress on Fundamental and Applied Sciences, Skopje, Macedonia, 18 - 22 Haziran 2018, pp.1

- **ENCRYPTION MECHANISM IN QUANTUM COMPUTERS**

YEŞİLTEPE M., KURULAY M.

İCFAS2017, 21 - 24 Ağustos 2017, no.1

- **NUMERICAL SOLUTIONS TO LARGE-SCALE SINGULARLY PERTURBED SYSTEMS USING KRYLOV SUBSPACE METHOD**

DERİCİOĞLU Y., KURULAY M., HACHED M., JBILOU K.

International Congress on Fundamental and Applied Sciences 2017, Sarajevo, Bosnia And Herzegovina, 21 Ağustos 2017, pp.67

- **Cloud interaction and safety features of mobiles devices**

Yeşiltepe M., Kurulay M.

International Congress on Fundamental and Applied Sciences 2016, İstanbul, Turkey, 22 - 26 Ağustos 2016, vol.1, pp.175

- **Social networking for mobile devices**

Yeşiltepe M., Kurulay M.

International Congress on Fundamental and Applied Sciences 2016 (ICFAS2016), İstanbul, Turkey, 22 - 26 Ağustos 2016, vol.1, no.1, pp.32

- **A hybridizable discontinuous Galerkin method for the steady state fractional advection dispersion equation**

Karaaslan M. F. , Kurulay M.

<http://www.icfas2016.yildiz.edu.tr/>, İstanbul, Turkey, 22 - 26 Ağustos 2016, vol.1, pp.121

- **A new application for solving large scale differential matrix Riccati equations**

DERİCİOĞLU Y., HACHED M., KURULAY M., JBILOU K.

International Congress on Fundamental and Applied Sciences 2016, İstanbul, Turkey, 22 Ağustos 2016, pp.120

- **A Hybridizable discontinuous Galerkin method for a class of fractional boundary value problem**

Karaaslan M. F. , Kurulay M.

2 nd International Conference on Analysis and its Applications, Kırşehir, Turkey, 12 - 15 Temmuz 2016, pp.201

- **Krylov subspace methods for large differential Riccati equations**

HACHED M., DERİCİOĞLU Y., JBILOU K., KURULAY M.

2nd International Conference on Pure and Applied Sciences, İstanbul, Turkey, 01 Haziran 2016, pp.21

- **A NEW METHOD FOR SOLVING LARGE SCALE DIFFERENTIAL MATRIX RICCATI EQUATIONS**

Kurulay M., Jbilou K., Dericioğlu Y.

International Conference on Engineering and Natural Sciences (ICENS) 2016, Sarajevo, Bosnia And Herzegovina, 24 Mayıs 2016, pp.487

- **Study Triple Data Encryption Standard Encryption Algorithm In Windows Communication Foundation Environment**

YEŞİLTEPE M., KACMAZ E., KURULAY M.

Electric Electronics, Computer Science, Biomedical Engineerings' Meeting (EBBT), İstanbul, Turkey, 26 - 27 April 2016

- **Analytical Solutions Of Time Fractional Navier Stokes Equations**

Kurulay M., Yeşiltepe M.

The 11th IMT-GT International Conference on Mathematics, Statistics and Its Applications 2015, Pattani, Thailand, 23 - 25 Kasım 2015, vol.1, pp.106

- **Using Protocol Level Parameter In WCF With Different Protocol**

Yeşiltepe M., Kurulay M.

The 11th IMT-GT International Conference on Mathematics, Statistics and Its Applications PROCEEDINGS (ICMSA 2015), Pattani, Thailand, 23 - 25 Ekim 2015, vol.1, pp.34-42

- **Türkiye deki Bankaların 2015 Ekim Ayı Şifreleme Paketlerinin İncelenmesi**

Yeşiltepe M., Yeni Ö., Yılmaz B., Kurulay M.

TBD. 32. Ulusal Bilişim Kurultayı, Ankara, Turkey, 3 - 05 Aralık 2015, vol.1, no.1, pp.29-33

- **On Using of the Advection diffusion problem as Environmental Modelling**

Kurulay M., Karaaslan M. F.

1st International Conference on Environmental Science and Technology (ICOEST), Sarajevo, Bosnia And Herzegovina, 9 - 13 Eylül 2015, vol.1, pp.107-108

- **Sosyal Medya Sitelerinin Kullandıkları Şifreleme Paketlerine Göre Sınıflandırılması**
Yeşiltepe M., Kurulay M.
8. Uluslararası Bilgi Güvenliği ve Kriptoloji Konferansı, Ankara, Turkey, 30 - 31 Ekim 2015, vol.1, pp.1-4
- **Fractional difference approximations for the time-space fractional differential equation**
KURULAY M., DERİCİOĞLU Y.
International Congress on Modelling and Scientific Computing in Engineering Mathematics (MOCASIM 2014), Marrakech, Morocco, 19 Kasım 2014, pp.69
- **Solving of Fractional Burger's Equation with Finite Difference Method.**
Kurulay M., Şentürk İ.
SOUTH EASTERN EUROPEAN MATHEMATICAL OLYMPIAD FOR UNIVERSITY STUDENTS 2015, Ohrid, Macedonia, 24 - 27 Eylül 2014, pp.1
- **Hybridizable Discontinuous Galerkin Method for Convection-Diffusion-Reaction Problems**
Karaaslan M. F. , Çeliker F., Kurulay M.
Karatekin Mathematics Days, İstanbul, Turkey, 11 - 13 Haziran 2014, pp.197
- **A Comparative Analysis of Galerkin and Hybridizable Discontinuous Galerkin Method On Second Order Differential Equation**
Karaaslan M. F. , Çeliker F., Kurulay M.
2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Bosnia And Herzegovina, 26 - 29 Ağustos 2013, pp.177
- **Hybridizable Discontinuous Galerkin Method for One Dimensional Problems**
Karaaslan M. F. , Kurulay M.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 2 - 05 Haziran 2013, pp.1
- **On Solving A Type of Fractional Volterra-Integro Differential Equations Using Homotopy Analysis Method**
Karaaslan M. F. , Kurulay M.
1st International Eurasian Conference on Mathematical Sciences and Applications, Priştine, Kosova, 3 - 07 Eylül 2012, pp.1
- **Discontinuous Galerkin Methods with An Application for Elliptic Problems**
Karaaslan M. F. , Kurulay M.
International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 19 - 24 Haziran 2012, pp.1
- **A note on fractional derivatives and Laplace's transform of fractional order**
Kurulay M.
2011 Spring Southeastern Section Meeting Statesboro, Massachusetts, United States Of America, 3 - 04 Ocak 2011, pp.1
- **Analytic study on nonlinear fractional partial differential equations, American Mathematical Society**
Kurulay M.
2011 Spring Eastern Sectional Meeting College of the Holy Cross, Massachusetts, United States Of America, 2 - 03 Aralık 2010, pp.1
- **KESİRLİ MERTEBELİ DİFERANSİYEL DENKLEMLERİN ÇÖZÜMÜ ÜZERİNE**
Kurulay M., Osmanoğlu M., Bayram M.
XXI. ULUSAL MATEMATİK SEMPOZYUMU, İstanbul, Turkey, 1 - 04 Eylül 2008, pp.99-100

Other Publications

- **Fractional Calculus and Its Applications**
KURULAY M.
Presentation, pp.1, 2010

Supported Projects

Kurulay M., Technopark, Electronic Document Management System-2, 2017 - 2019

KURULAY M., Project Supported by Higher Education Institutions, Yüksek Mertebeli Matris Diferansiyel Denklemleri için Krylov Yöntemleri, 2016 - 2019

Kurulay M., Technopark, Electronic Document Management System, 2016 - 2017

Kurulay M., Technopark, Augmented Reality Oriented Mobile Tourist Guide Platform, 2015 - 2016

KURULAY M., Project Supported by Higher Education Institutions, Diferensiyel denklemler için Hybridizable Discontinuous Galerkin metodu, 2013 - 2016

Kurulay M., Technopark, BROADCAST PLATFORM WITH HIGH PERFORMANCE AND SMART CONTENT, 2013 - 2014

KURULAY M., Project Supported by Higher Education Institutions, Kesirli Mertebeden Burger Denkleminin Sonlu Fark Yöntemi ile Çözümü ve Analizi, 2013 - 2014

Activities in Scientific Journals

International Journal of Life Sciences and Biotechnology, Editor, 2018 - Continues

International Journal of Informatics and Applied Mathematics, First Editor, 2018 - Continues

Journal of Engineering Technology and Applied Sciences, First Editor, 2016 - Continues

Tasks In Event Organizations

Kurulay M., 6th International Congress on Fundamental and Applied Sciences 2019, Scientific Congress, Tirane, Albania, Haziran 2019

Kurulay M., 5th International Congress on Fundamental and Applied Sciences 2019, Scientific Congress, Macedonia, Haziran 2018

Kurulay M., 4th International Congress on Fundamental and Applied Sciences , Scientific Congress, Bosnia And Herzegovina, Ağustos 2017

Kurulay M., 3th Congress on Fundamental and Applied Sciences, Scientific Congress, Turkey, Ağustos 2016

Citations

Total Citations (WOS):146

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Invited Talks

Artificial Intelligence in Medical Imaging Using Matrix Computation, Conference, Diğer Kurumlar, Algeria, November 2019

The First Edition of Doctoral days on Informatics and Applied Mathematics 2018, Conference, Diğer Kurumlar, Algeria, September 2018

Scholarships

2219 International Post-Doctoral Research Fellowship Program, TUBITAK, 2010 - 2011

Awards

Kurulay M., 2012-2013 Yıldız Teknik Üniversite'sindeki Akademisyenler Arasında En Çok Yayın Yapan Akademisyen, Birincilik Ödülü, Yıldız Teknik Üniversitesi, June 2013