

Assoc. Prof. Mehmet Ali AKINLAR

Personal Information

Email: makinlar@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/makinlar>

Biography

Mehmet Ali Akinlar is an associate professor of mathematics at dept. of mathematical engineering in Yildiz Technical University. He completed his M.Sc. degree in McMaster University in 2005 and his M.Sc. thesis was about Frame theory. After studying one year in the department of computing and software in McMaster University, Dr. Akinlar moved to The University of Texas at Arlington to pursue his Ph.D. degree. He completed his Ph.D. in 2009 and his Ph.D. dissertation was regarding mathematical image registration methods. Upon completion of his Ph.D., Dr. Akinlar became a post-doctoral research associate at Florida State University (FSU). His mentor was distinguished professor Max Gunzburger. Dr. Akinlar involved in a NSF granted research project entitled geometric image registration methods in FSU.

Dr. Akinlar is an applied mathematician working on the application, analysis and solutions of differential equations including stochastic and fractional order.

Education Information

Doctorate, The University Of Texas At Arlington, Science, Mathematics, United States Of America 2006 - 2009

Post Graduate, Mcmaster University, Science, Mathematics, Canada 2003 - 2005

Post Graduate, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, Turkey 1999 - 2002

Under Graduate, Anadolu Üniversitesi, Fen Fakültesi, Matematik, Turkey 1995 - 1999

Dissertations

Doctorate, A new method for nonrigid registration of 3d images, The University Of Texas At Arlington, Science, Mathematics, 2009

Post Graduate, Alternate duals of Gabor subspace frames, Mcmaster University, Science, Mathematics, 2005

Post Graduate, Kume Degerli donusumlerin sureklilikleri, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2002

Research Areas

Mathematics, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Matematik Mühendisliği, 2015 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Matematik Mühendisliği, 2013 - 2015

Assistant Professor, Bilecik Şeyh Edebali Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2011 - 2013
Research Assistant PhD, Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Bilgisayar Müh., 2010 - 2011
Research Assistant PhD, The Florida State University, Scientific Computing, Scientific Computing, 2009 - 2010
Research Assistant, The University Of Texas At Arlington, Science Fakülty, Matematik, 2006 - 2009
Research Assistant, Mcmaster University, Science Fakulty, Matematik, 2003 - 2005

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

- I. **A new fractional-order compartmental disease model**
Luu Vu Cam Hoan L. V. C. H. , AKINLAR M. A. , İNÇ M., Gomez-Aguilar J. F. , Chu Y., Almohsen B.
ALEXANDRIA ENGINEERING JOURNAL, vol.59, pp.3187-3196, 2020 (Journal Indexed in SCI)
- II. **Soliton solutions for system of ion sound and Langmuir waves**
Mohammed W. W. , Abdelrahman M. A. E. , İNÇ M., Hamza A. E. , AKINLAR M. A.
OPTICAL AND QUANTUM ELECTRONICS, vol.52, 2020 (Journal Indexed in SCI)
- III. **New solutions of fractional-order Burger-Huxley equation**
İNÇ M., Partohaghighi M., AKINLAR M. A. , Agarwal P., Chu Y.
RESULTS IN PHYSICS, vol.18, 2020 (Journal Indexed in SCI)
- IV. **Solutions of a disease model with fractional white noise**
AKINLAR M. A. , İNÇ M., Gomez-Aguilar J. F. , Boutarfa B.
CHAOS SOLITONS & FRACTALS, vol.137, 2020 (Journal Indexed in SCI)
- V. **New Exact Solutions and Conservation Laws to the Fractional-Order Fokker-Planck Equations**
Kadkhoda N., Lashkarian E., İNÇ M., AKINLAR M. A. , Chu Y.
SYMMETRY-BASEL, vol.12, 2020 (Journal Indexed in SCI)
- VI. **New Positive Solutions of Nonlinear Elliptic PDEs**
İNÇ M., Bouteraa N., AKINLAR M. A. , Benaicha S., Chu Y., Weber G., Almohsen B.
APPLIED SCIENCES-BASEL, vol.10, 2020 (Journal Indexed in SCI)
- VII. **Chaos control and solutions of fractional-order Malkus waterwheel model**
AKINLAR M. A. , Tchier F., İNÇ M.
CHAOS SOLITONS & FRACTALS, vol.135, 2020 (Journal Indexed in SCI)
- VIII. **Chirped solitons in negative index materials generated by Kerr nonlinearity**
Houwe A., İNÇ M., Doka S. Y. , AKINLAR M. A. , Baleanu D.
RESULTS IN PHYSICS, vol.17, 2020 (Journal Indexed in SCI)
- IX. **New Uniform Motion and Fermi-Walker Derivative of Normal Magnetic Biharmonic Particles in Heisenberg Space**
Korpınar T., Korpınar Z., Chu Y., AKINLAR M. A. , İNÇ M.
SYMMETRY-BASEL, vol.12, 2020 (Journal Indexed in SCI)
- X. **Applicability of time conformable derivative to Wick-fractional-stochastic PDEs**
Korpınar Z., Tchier F., İNÇ M., Bousbahi F., Tawfiq F. M. O. , AKINLAR M. A.
ALEXANDRIA ENGINEERING JOURNAL, vol.59, pp.1485-1493, 2020 (Journal Indexed in SCI)
- XI. **Explicit solutions to the Sharma-Tasso-Olver equation**
Abdou M. A. , Ouahid O., Owyed S., Abdel-Baset A. M. , İNÇ M., AKINLAR M. A. , Chu Y.
AIMS MATHEMATICS, vol.5, pp.7272-7284, 2020 (Journal Indexed in SCI)
- XII. **New solitary wave solutions for the conformable Klein-Gordon equation with quantic nonlinearity**
İNÇ M., Rezazadeh H., Vahidi J., Eslami M., AKINLAR M. A. , Ali M. N. , Chu Y.
AIMS MATHEMATICS, vol.5, pp.6972-6984, 2020 (Journal Indexed in SCI)
- XIII. **New exact solutions for the Kaup-Kupershmidt equation**
İNÇ M., Miah M., Chowdhury A., Ali S., Rezazadeh H., AKINLAR M. A. , Chu Y.
AIMS MATHEMATICS, vol.5, pp.6726-6738, 2020 (Journal Indexed in SCI)
- XIV. **A fast and efficient 3D medical image registration method Szybka i efektywna metoda rejestracji obrazu medycznego 3D**

Akinlar M. A. , KURULAY M., SEÇER A.

Przegląd Elektrotechniczny, vol.89, pp.199-202, 2013 (Journal Indexed in SCI Expanded)

XV. **A computational method using multiresolution for volumetric data integration**

Akinlar M. A. , Kurulay M., Seçer A., Celenk M.

BOUNDARY VALUE PROBLEMS, 2012 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Generalized polynomial chaos approaches for stochastic system of equations**

ÖZDEMİR N., AKINLAR M. A.

International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 08 June 2015, pp.241

II. **Bifurcation Analysis of Deterministic and Stochastic Dynamical Systems**

ÖZDEMİR N., AKINLAR M. A. , BAYRAM M.

4th International Conference on Mathematics & Information Science, Kahire, Egypt, 05 February 2015, pp.51

III. **Wavelet-petrov-galerkin method for numerical solution of boussinesq equation**

Akinlar M. A. , SEÇER A.

2013 2nd International Conference on Chemical, Mechanical and Materials Engineering, CMME 2013, Melbourne, Australia, 20 - 21 January 2013, vol.319, pp.451-455

IV. **Medical image compression using quad-tree fractals and segmentation**

Khalili F., Celenk M., Akinlar M. A.

2013 International Conference on Image Processing, Computer Vision, and Pattern Recognition, IPCV 2013, at WORLDCOMP 2013, Nevada, United States Of America, 22 - 25 July 2013, vol.1, pp.118-122

V. **Cancerous Lesion Detection from Nevoscope Skin Surface Images via Parametric Color Clustering**

Dhinagar N. J. , Glasgo I., Celenk M., Akinlar M. A.

Chinese Conference on Pattern Recognition, Beijing, China, 24 - 26 September 2012, vol.321, pp.367-369

VI. **Noninvasive screening and discrimination of skin images for early melanoma detection**

Dhinagar N. J. , Celenk M., Akinlar M. A.

5th International Conference on Bioinformatics and Biomedical Engineering, iCBBE 2011, Wuhan, China, 10 - 12 May 2011

Activities in Scientific Journals

Uluslararası hakemli dergi, Editor, 2019 - Continues

Information Engineering and Applied Computing, Editor, 2018 - Continues

International Journal of Mathematics and Systems Sciences, Editor, 2018 - Continues

Applied Mathematical Sciences, Editor, 2018 - Continues

Citations

Total Citations (WOS):90

h-index (WOS):6