Prof. Ercan ÇELİK

Personal Information

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Education Information

Associate Degree, Ataturk University, Açıköğretim Fakültesi, Turkey 2014 - 2016 Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Turkey 1998 - 2002 Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Turkey 1995 - 1998 Undergraduate, Ataturk University, Fen Fakültesi, Matematik, Turkey 1991 - 1995

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Diferensiyel-Cebirsel Denklemlerin Nümerik Çözümü, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik/ Uygulamalı Matematik, 2002 Postgraduate, Gröbner Bazı ve Uygulamaları, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik/ Uygulamalı Matematik, 1998

Research Areas

Mathematics, Differential Equations, Integral Equations, Partial Differential Equations, Optimization, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Matematik, 2016 - Continues Associate Professor, Ataturk University, Fen Fakültesi, Matematik, 2010 - 2016 Assistant Professor, Ataturk University, Fen Fakültesi, Matematik, 2008 - 2010 Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2006 - 2008 Assistant Professor, Ataturk University, Fen Fakültesi, Matematik, 2002 - 2006 Research Assistant, Ataturk University, Fen Fakültesi, Matematik, 1995 - 2002

Academic and Administrative Experience

Head of Department, Ataturk University, Fen Fakültesi, Matematik, 2018 - Continues Atatürk Üniversitesi, Narman Myo, 2013 - 2016

Courses

İleri Kısmi Diferansiyel Denklemler-I-II, Doctorate, 2020 - 2021 Uygulamalı Matematik, Undergraduate, 2019 - 2020 Uzmanlık Alan Dersi II, Doctorate, 2020 - 2021 Diferansiyel Denklemler-I-II, Undergraduate, 2020 - 2021, 2019 - 2020 İleri Nümerik Analiz-I-II, Doctorate, 2019 - 2020 Uzmanlık Alan Dersi I, Doctorate, 2019 - 2020 Differential-Algebraic Equation-I-II, Postgraduate, 2020 - 2021, 2019 - 2020 Kısmi Diferansiyel Denklemler, Undergraduate, 2019 - 2020 Differential Equation, Undergraduate, 2020 - 2021, 2019 - 2020 Nümerik Analiz, Undergraduate, 2019 - 2020 Matematik-I-II, Undergraduate, 2016 - 2017

Advising Theses

ÇELİK E., Lucas Polinomları ile Diferansiyel-Cebirsel Denklemlerin Nümerik Çözümü, Postgraduate, B.BULUR(Student), 2018 ÇELİK E., Fuzzy Metre Kullanılarak Fuzzy Sayılarının Sıralanması ve Sonuçların Karşılaştırılması, Doctorate, E.ABBASI(Student), 2018 ÇELİK E., Kesirli Mertebeden Bir Matematiksel Modelin Çözümü, Doctorate, M.Ali(Student), 2017 ÇELİK E., Kesirli Kompleks Dönüşüm Metodu ile Kesirli Diferansiyel- Cebirsel Denklemlerin Nümerik Çözümü, Doctorate, E.SEFIDGAR(Student), 2017 ÇELİK E., Aralık-Değerli Bulanık Topsis Yöntemi ile Yatırım Fırsatlarını Değerlendirme, Postgraduate, N.Mohammadi(Student), 2017 ÇELİK E., Diferansiyel-Cebirsel Denklemler ve Kesirli Mertebeden Diferansiyel-Cebirsel Denklemlerin Homotopi Pertürbe Dönüşüm Metodu ve Yeni İteratif Dönüşüm Metodu ile Çözümü, Doctorate, R.Najafi(Student), 2016 ÇELİK E., Çarpımsal(Multiplikatif) Türev ve Çarpımsal Lineer Diferensiyel Denklemler, Doctorate, N.TUNCELİ(Student), 2016 ÇELİK E., Lineer Kompleks Diferansiyel Denklemlerin Legendre Polinomları ile Nümerik Çözümleri, Doctorate, F.DÜŞÜNCELİ(Student), 2015 ÇELİK E., Uyumlu Kesirli Türev ve Dizisel Lineer Diferensiyel Denklemler, Atatürk Üniversitesi, Doctorate, E.ÜNAL(Student), 2015 ÇELİK E., Diferansiyel Cebirsel Denklemlerin Haar Dalgacık Metodu İle Nümerik Çözümü, Doctorate, M.KARABACAK(Student), 2014 ÇELİK E., Kesirli Mertebeden Kısmi Diferansiyel Cebirsel Denklemlerin Farklı Metodlarla Nümerik Çözümü, Doctorate, G.Dilek(Student), 2014 ÇELİK E., Fuzzy Kesirli Diferansiyel Denklemlerin Sayısal Çözümleri, Doctorate, E.KHODADADİGNANDNAR(Student), 2014 ÇELİK E., Numerical solution of Fractional Partial Differential-Algebraic Equations, Doctorate, K.TABATAHAEİ(Student), 2013 ÇELİK E., Quasi Optiğin Durgun Denklemi İçin Optimal Kontrol Problemi ve Onun Nümerik Çözümü, Doctorate, Y.KOÇAK(Student), 2013 CELİK E., RSA Kripto sistemini Etkileyen Faktörler, Doctorate, İ.OKUMUŞ(Student), 2012

ÇELİK E., Kısmi Diferansiyel-Cebirsel Denklemlerin Çok Değişkenli Padé Yaklaşımı ile Nümerik Çözümü, Doctorate,
M.YİĞİDER(Student), 2011
ÇELİK E., Lineer Diferensiyel-Cebirsel Denklemlerin Hermite Polinomları yaklaşımı ile Nümerik Çözümü, Postgraduate,
D.ÖZGÖKKURT(Student), 2011
ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Laguerre Polinomları ile Nümerik Çözümü, Postgraduate,
M.AKÇAY(Student), 2010
ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Legendre Polinomları ile Nümerik Çözümü, Postgraduate, F.BERK(Student),

2010 ÇELİK E., Çok Değişkenli Padé Yaklaşımları ve Uygulamaları, Postgraduate, V.TÜRÜT(Student), 2007 ÇELİK E., Diferensiyel-Cebirsel Denklemlerin En Küçük Kareler Yaklaşımı ile Nümerik Çözümü, Postgraduate, M.AKAR(Student), 2007 ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Adomian Ayrıştırma metodu ile Nümerik çözümü, Postgraduate,

O.Kızıloğlu(Student), 2005

ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Chebyshev Yaklaşımı ile Nümerik çözümü, Postgraduate, T.Yeloğlu(Student), 2004

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Bingöl Üniversitesi, October, 2021 Post Graduate, Post Graduate, Atatürk Üniversitesi, September, 2021 Doctorate, Doctorate, Atatürk Üniversitesi, August, 2021 Doctorate, Doctorate, Atatürk Üniversitesi, June, 2021 Post Graduate, Post Graduate, Ağrı İbrahim Çeçen Üniversitesi, June, 2021 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021 Doctoral Examination, Doctoral Examination, Fırat Üniversitesi, June, 2021 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021 Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, May, 2021 Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, February, 2021 Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, February, 2021 Post Graduate, Post Graduate, Erzurum Teknik Üniversitesi, December, 2020 Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, November, 2020 Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, October, 2020 Post Graduate, Post Graduate, Atatürk Üniversitesi, October, 2020 Doctorate, Doctorate, İnönü Üniversitesi, August, 2020 Doctoral Examination, Doctoral Examination, Fırat Üniversitesi, July, 2020 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020 Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, May, 2020 Post Graduate, Post Graduate, Ağrı İbrahim Çeçen Üniversitesi, May, 2020 Associate Professor Exam, Associate Professor Exam, Bingöl Üniversitesi, March, 2020 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, February, 2020 Post Graduate, Post Graduate, Kafkas Üniversitesi, January, 2020 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. Investigation on the new exact solutions of generalized Rosenau-Kawahara-RLW equation with p-th order nonlinearity occurring in ocean engineering models TAŞBOZAN O., ÇELİK E., Kurt A., Akinyemi L. Applied Mathematics, vol.39, no.4, pp.642-653, 2024 (SCI-Expanded) II. USING FUZZY-ROUGH SET EVALUATION FOR FEATURE SELECTION AND NAIVE BAYES TO CLASSIFY THE PARKINSON DISEASE Lanbaran N. M., ÇELİK E., Kotan O. MISKOLC MATHEMATICAL NOTES, vol.23, no.2, pp.787-800, 2022 (SCI-Expanded) III. Numerical solution of Volterra-Fredholm integral equations with Hosoya polynomials Gecmen M. Z., CELİK E. MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.14, pp.11166-11173, 2021 (SCI-Expanded) IV. On the modulation instability analysis and deeper properties of the cubic nonlinear Schroddinger's equation with repulsive delta-potential Li Y., ÇELİK E., Guirao J. L. G., Saeed T., Mehmet Baskonus H. RESULTS IN PHYSICS, vol.25, 2021 (SCI-Expanded) V. New exact solutions for the doubly dispersive equation using the improved Bernoulli sub-equation function method Dusunceli F., Celik E., Askin M., Bulut H. INDIAN JOURNAL OF PHYSICS, vol.95, no.2, pp.309-314, 2021 (SCI-Expanded) VI. ANALYZING A NOVEL CORONAVIRUS MODEL (COVID-19) IN THE SENSE OF CAPUTO-FABRIZIO FRACTIONAL OPERATOR Dokuyucu M. A., ÇELİK E. APPLIED AND COMPUTATIONAL MATHEMATICS, vol.20, no.1, pp.49-69, 2021 (SCI-Expanded) VII. ON THE EXISTENCE AND UNIQUENESS OF THE SOLUTION OF AN OPTIMAL CONTROL PROBLEM FOR SCHRODINGER EQUATION Kuecuek G. D., YAGUB G., ÇELİK E. DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, vol.12, no.3, pp.503-512, 2019 (SCI-Expanded) VIII. Numerical solution for high-order linear complex differential equations with variable coefficients Dusunceli F., ÇELİK E. NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.34, no.5, pp.1645-1658, 2018 (SCI-Expanded) IX. Novel features of the nonlinear model arising in nano-ionic currents throughout microtubules ÇELİK E., Bulut H., Baskonus H. M. INDIAN JOURNAL OF PHYSICS, vol.92, no.9, pp.1137-1143, 2018 (SCI-Expanded) X. Cancer treatment model with the Caputo-Fabrizio fractional derivative Dokuyucu M. A., ÇELİK E., Bulut H., Baskonus H. M. EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, no.3, 2018 (SCI-Expanded) XI. Analysis of Keller-Segel Model with Atangana-Baleanu Fractional Derivative DOKUYUCU M. A., BALEANU D., ÇELİK E. FILOMAT, vol.32, no.16, pp.5633-5643, 2018 (SCI-Expanded) XII. Modified iteration method for solving fractional gas dynamics equation NAJAFI R., Kucuk G. D., CELİK E. MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.40, no.4, pp.939-946, 2017 (SCI-Expanded) XIII. Solutions around a regular a singular point of a sequential conformable fractional differential equation Unal E., GÖKDOĞAN A., ÇELİK E. KUWAIT JOURNAL OF SCIENCE, vol.44, no.1, pp.9-16, 2017 (SCI-Expanded) XIV. Multiplicative Laplace transform and its applications YALÇIN N., ÇELİK E., GÖKDOĞAN A.

OPTIK, vol.127, no.20, pp.9984-9995, 2016 (SCI-Expanded)

XV.	EXISTENCE AND UNIQUENESS THEOREMS FOR SEQUENTIAL LINEAR CONFORMABLE FRACTIONAL
	Gokdogan A. Unal E. CELİK E.
	MISKOLC MATHEMATICAL NOTES, vol.17, no.1, pp.267-279, 2016 (SCI-Expanded)
XVI.	A Note on Optimal Control Problem Governed by Schrodinger Equation
	Kocak Y., ÇELİK E., Aksoy N. Y.
	OPEN PHYSICS, vol.13, no.1, pp.407-413, 2015 (SCI-Expanded)
XVII.	The numerical solution of partial differential-algebraic equations
	YİĞİDER M., ÇELİK E.
	ADVANCES IN DIFFERENCE EQUATIONS, 2013 (SCI-Expanded)
XVIII.	On The Numerical Solution of differential algebraic equations with Index 3 by Pade approximation
	ÇELİK E., TABATABEI K.
	Applied Mathematics & Information Sciences, vol.2, pp.1-6, 2013 (SCI-Expanded)
XIX.	The variational iteration method for fuzzy fractional differential equations with uncertainty
	Khodadadi E., ÇELİK E.
	FIXED POINT THEORY AND APPLICATIONS, pp.1-7, 2013 (SCI-Expanded)
XX.	On the Numerical Solution of Differential-Algebraic Equations with Hessenberg Index-3
	Karta M., ÇELİK E.
	DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2012 (SCI-Expanded)
XXI.	Optimal control problem for stationary quasi-optic equations
	Kocak Y., ÇELİK E.
	BOUNDARY VALUE PROBLEMS, 2012 (SCI-Expanded)
XXII.	Multivariate pade approximation for solving partial differential equations (PDE)
	Turut V., ÇELIK E., Yigider M.
	INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.66, no.9, pp.1159-1173, 2011 (SCI-
	Expanded)
XXIII.	The Numerical Method for Solving Differential Equations of Lane-Emden Type by Pade
	Approximation
	IIGUEL M., TADATADAEL N., ÇELIN E.
VVIV	Chebyshow series approximation for solving differential algebraic equations (DAEs)
AAIV.	Calik F. Valoglu T
	INTERNATIONAL IOURNAL OF COMPUTER MATHEMATICS vol 83 pp 651-662 2006 (SCI-Fypanded)
xxv	The numerical solution of physical problems modeled as a systems of differential-algebraic
	equations (DAEs)
	Celik E., BAYRAM M.
	IOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.342, no.1, pp.1-6, 2005
	(SCI-Expanded)
XXVI.	Numerical solution of differential-algebraic equation systems and applications
	ÇELİK E., BAYRAM M.
	Applied Mathematics and Computation, vol.154, no.2, pp.405-413, 2004 (SCI-Expanded)
XXVII.	On the numerical solution of chemical differential-algebraic equations by Pade series
	ÇELİK E.
	Applied Mathematics and Computation, vol.153, no.1, pp.13-17, 2004 (SCI-Expanded)
XXVIII.	The modified successive approximations method and padé approximants for solving the differential
	equation with variant retarded argumend
	ÇELİK E., AYKUT A., BAYRAM M.
	Applied Mathematics and Computation, vol.151, no.2, pp.393-400, 2004 (SCI-Expanded)
XXIX.	The successive approximation method and Padé approximants for solutions the non-linear boundary
	value problem

ŞİMŞEK H., ÇELİK E.

Applied Mathematics and Computation, vol.146, pp.681-690, 2003 (SCI-Expanded)

XXX. Numerical solutions of chemical differential-algebraic equations ÇELİK E., KARADUMAN E., BAYRAM M.

Applied Mathematics and Computation, vol.139, pp.259-264, 2003 (SCI-Expanded)

- XXXI. On the numerical solution of differential-algebraic equations by Padé series ÇELİK E., BAYRAM M.
 - Applied Mathematics and Computation, vol.137, no.1, pp.151-160, 2003 (SCI-Expanded)
- XXXII. Arbitrary order numerical method for solving differential-algebraic equation by Padé series ÇELİK E., BAYRAM M.

Applied Mathematics and Computation, vol.137, no.1, pp.57-65, 2003 (SCI-Expanded)

XXXIII. Numerical method to solve chemical differential-algebraic equations
 Celik E., Karaduman E., BAYRAM M.
 INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.89, no.5, pp.447-451, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. The Solution of Linear Volterra Integral Equation of the First Kind with ZZ- Transform ÖZDEMİR E., ÇELİK E., ŞENER KILIÇ S. Ş. TURKISH JOURNAL OF SCIENCE, vol.6, no.3, pp.127-133, 2021 (Peer-Reviewed Journal)
 II. Numerical Solution of Volterra Integral Equations Using Hosoya Polynomial
- II. Numerical Solution of Volterra Integral Equations Using Hosoya Polynomial GEÇMEN M. Z., ÇELİK E., DOKUYUCU M. A. TURKISH JOURNAL OF SCIENCE, vol.6, no.3, pp.110-117, 2021 (Peer-Reviewed Journal)
- III. Prediction of Breast Cancer through Tolerance-based Intuitionistic Fuzzy-rough Set Feature Selection and ArtificialNeural Network Lanbaran N. M., ÇELİK E.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, no.4, pp.1064-1075, 2021 (ESCI)

- IV. EVALUATION OF INVESTMENT OPPORTUNITIES WITH INTERVAL-VALUED FUZZY TOPSIS METHOD ÇELİK E., YİĞİDER M., LANBARAN MOHAMMADI N. Applied Mathematics and Nonlinear Sciences, vol.5, no.1, pp.461-474, 2020 (ESCI)
- V. Analytical and approximate solutions of Fractional Partial Differential-Algebraic Equations ÇELİK E., GÜNERHAN H.

Applied Mathematics and Nonlinear Sciences, vol.5, no.1, pp.109-120, 2020 (ESCI)

VI. Approximate solution of the problem of delayed variable boundary value by the CAS wavelet method ÇELİK E., ÖZTÜRK E. D., AYKUT A.

Communication in Mathematical Modeling and Applications, vol.4, no.1, pp.1-8, 2019 (Peer-Reviewed Journal)

VII. Çarpımsal Cauchy-Euler ve Legendre Diferansiyel Denklemi
 YALÇIN N., ÇELİK E.
 Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, no.3, pp.373-382, 2019 (Peer-Reviewed Journal)

VIII. Fixed point theorem for defuzzification and its application in decision making units ÇELİK E., ABBASI E., SANEIFARD R.

New Trends in Mathematical Sciences, vol.7, no.2, pp.214-221, 2019 (Peer-Reviewed Journal)

- IX. A valid and advanced method for ranking the fuzzy numbers
 ÇELİK E., ABBASI E., SANEIFARD R.
 Communication in Mathematical Modeling and Applications, vol.3, pp.23-30, 2018 (Peer-Reviewed Journal)
- X. Improved of Approximating Function Li(x)
 OKUMUŞ İ., ÇELİK E.

International Journal of Engineering and Applied Sciences (IJEAS), vol.5, 2018 (Peer-Reviewed Journal)

XI. Solution of multiplicative homogeneous linear differential equations with constant exponentials YALÇIN N., ÇELİK E.

New Trends in Mathematical Science, vol.2, pp.58-67, 2018 (Peer-Reviewed Journal) XII. The Solution of Multiplicative Non-Homogeneous Linear Differential Equations YALÇIN N., ÇELİK E. Journal of Applied Mathematics and Computation, vol.2, 2018 (Peer-Reviewed Journal) XIII. Numerical Solution of Fractional Differential Equation in aModel of HIV Infection of CD4 T Cells ÇELİK E., SEFİDGAR E., SHIRI B. INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS & STATISTICS, vol.56, pp.23-32, 2017 (ESCI) XIV. The One Dimensional Keller-Segel Model DOKUYUCU M. A., ÇELİK E. Eastern Anatolian Journal of Science, vol.3, pp.38-41, 2017 (Peer-Reviewed Journal) XV. FIBONACCI MATRIX POLYNOMIAL METHOD FORLINEAR COMPLEX DIFFERENTIAL EQUATIONS DÜSÜNCELİ F., CELİK E. Asian Journal of Mathematics and Computer Research, vol.15, pp.229-238, 2017 (Peer-Reviewed Journal) XVI. On the Solution of Stephan Inverse Problems NAJAFİ R., ALIYEV N., ÇELİK E. New Trends in Mathematical Sciences, vol.4, pp.174-179, 2016 (Peer-Reviewed Journal) XVII. Non Linear Difusion for Chemotaxis and Birth Death Process for Keller Segel Model DOKUYUCU M. A., ÇELİK E. New Trends in Mathematical Sciences, vol.4, pp.204-211, 2016 (Peer-Reviewed Journal) XVIII. Numerical Approximation of an Optimal Control Problem for Quasi Optics Equation KOÇAK Y., YILDIRIM AKSOY N., ÇELİK E. Eastern anatolian journal of science, vol.2, pp.67-71, 2016 (Peer-Reviewed Journal) XIX. Solving fuzzy fractional Riccati differential equations by the variational iteration method KHODADADI E., KARABACAK M., ÇELİK E. International Journal of Engineering and Applied Sciences, vol.2, pp.35-40, 2015 (Peer-Reviewed Journal) The Numerical Solution of Fractional Differential Algebraic Equations FDAEs by Haar Wavelet XX. **Functions** KARABACAK M., ÇELİK E. International Journal of Engineering and Applied Sciences, vol.2, pp.65-71, 2015 (Peer-Reviewed Journal) XXI. Solutions of Sequential Conformable Fractional Differential Equations around an Ordinary Point and **Conformable Fractional Hermite Differential Equation** ÜNAL E., GÖKDOĞAN A., ÇELİK E. British Journal of Applied Science & Technology, vol.10, pp.1-11, 2015 (Peer-Reviewed Journal) XXII. An Effective Tool: Numerical Solutions by Legendre Polynomials for High-order Linear Complex **Differential Equations** FARUK D., ÇELİK E. British Journal of Applied Science Technology, vol.8, pp.348-355, 2015 (Peer-Reviewed Journal) XXIII. The numerical solution of fractional differential algebraic equations by Haar wavelet functions ÇELİK E., KARABACAK M. International Journal of Engineering and Applied Sciences, vol.2, no.2, 2015 (Peer-Reviewed Journal) Well posedness of Optimal Control Problem fort he Schrödinger Equations with Complex Potential XXIV. ÇELİK E., KOÇAK Y., DOKUYUCU M. A. International Journal of Mathematics and Computation, vol.26, 2015 (Peer-Reviewed Journal) On a Stability Theorem of the Optimal Control Problem For Quasi Optic Equation XXV. KOÇAK Y., ÇELİK E., YILDIRIM AKSOY N. Journal of Progressive Research in Mathematics, vol.5, pp.487-492, 2015 (Peer-Reviewed Journal) Numerical Solution of Fractional Partial Differential Algebraic Equations XXVI. ÇELİK E., Tabatabaei K., Gunerhan E. AASCIT Communications, vol.2, no.5, pp.230-236, 2014 (Peer-Reviewed Journal) Numerical Solution of Fractional Partial Differential Algebraic Equation by Adomian Decomposition XXVII. Method and Multivariate Pade Approximation

	ÇELİK E., YİĞİDER M., KÜÇÜK G. D.
	British Journal of Applied Science Technology, vol.4, no.25, 2014 (Peer-Reviewed Journal)
XXVIII.	The Numerical Solution of Fractional Differential Algebraic Equations FDAEs
	KARABACAK M., ÇELİK E.
	New Trends in Mathematical Sciences, vol.1, pp.1-6, 2013 (Peer-Reviewed Journal)
XXIX.	solving a Class of Volterra Integral Equation Systems by the Differential Transform Method ÇELİK E.
	International Journal of Nonlinear Science, vol.16, no.1, pp.87-91, 2013 (Peer-Reviewed Journal)
XXX.	The Numerical Solution of Fractional Differential Algebraic Equations ÇELİK E., KARABACAK M.
	New Trends in Mathematical Sciences, vol.1, no.2, pp.1-6, 2013 (Peer-Reviewed Journal)
XXXI.	The differential transform method for solving heat-like and wave-like equations with variable
	coefficients
	Tabatabaei K., ÇELİK E., Tabatabaei R.
	TURKISH JOURNAL OF PHYSICS, vol.36, no.1, pp.87-98, 2012 (ESCI)
XXXII.	The Numerical Solution of Partial Differential Algebraic Equations by Multivariate Padé
	Approximation
	ÇELİK E., YİĞİDER M.
	EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.4, pp.67-75, 2011 (Peer-Reviewed Journal)
XXXIII.	Least Squares Approximations for Solving Differential Algebraic Equations
	ÇELİK E., AKAR M.
	World Applied Sciences Journal, vol.11, no.8, 2010 (Peer-Reviewed Journal)
XXXIV.	On the Numerical Solution of Differential Algebraic equations with Index 2 by Chebyshev
	Approximation
	ÇELİK E., YELOĞLU T.
	International Journal of Applied Mathematics and Statistics, vol.14, pp.47-57, 2008 (ESCI)
XXXV.	Application of Gröbner Bases Theory to Derive Steady State Rate Equations in Biochemical Kinetic
	Theory
	ÇELİK E., BAYRAM M., GÜZEL N.
	International Journal of Applied Mathematics and Statistics, vol.3, pp.51-59, 2005 (ESCI)
XXXVI.	Chebyshev Approximation for Numerical Solution of Differential Algebraic Equations
	ÇELÎK E., BAYRAM M.
	International Journal of Applied Mathematics and Statistics, vol.2, pp.29-39, 2004 (ESCI)

Books & Book Chapters

 I. Diferansiyel Denklemler, Lineer Programlama ÇELİK E. in: Matematik II, Tamer UĞUR, Editor, Atatürk Üniversitesi Açıköğretim Fakültesi, Erzurum, 2016
 II. Transandant Fonksiyonlar ÇELİK E., BAYRAM M. in: Thomas Kalkülüs, Mustafa Bayram, Editor, PEARSON, 2011

Refereed Congress / Symposium Publications in Proceedings

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- XLVIII. The Solution of Multiplicative Non-Homogeneous Linear Differential Equations YALÇIN N., ÜNAL E., ÇELİK E. International Conference on Mathematics and Mathematics Education, 11 - 13 May 2017
 - XLIX. Laplace Transform method for solving Coupled system of Fractional Differential Equations SEFIDGAR E., ÇELİK E., SHIRI B.
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LV. The Solutions of Multiplicative Hermite Differential Equation and Multiplicative Hermite Polynomials YALÇIN N., ÜNAL E., ÇELİK E.

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LXXXIX.	Classification of Factors that Affect the Speed of The RSA Cryptosystem OKUMUŞ İ., ÇELİK E.
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XC.	The Numerical Solution of Fractional Differential Algebraic Equations KARABACAK M., YİĞİDER M., ÇELİK E.
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XCI.	The Numerical Solutions of Fractional Differential Algebraic Equations KARABACAK M., YİĞİDER M., ÇELİK E.
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Representation and Promotion Activities

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