

## Prof. Adem Cengiz ÇEVİKEL

### Personal Information

**Email:** acevikel@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/acevikel>

### Education Information

Doctorate, Yildiz Technical University, Graduate School of Natural and Applied Sciences, Turkey 2005 - 2011

### Research Areas

Mathematics, Differential Equations, Natural Sciences

### Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2020 - Continues

Deputy Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2020 - 2020

Vice Dean, Yildiz Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2016 - 2020

Yıldız Teknik Üniversitesi, Kütüphane Ve Dokümantasyon, 2016 - 2016

Deputy Head of Department, Yildiz Technical University, Faculty Of Education, Department Of Mathematics And Science Education, 2012 - 2016

### Advising Theses

ÇEVİKEL A. C. , Lineer Olmayan Kesir Mertebeli Diferansiyel Denklemlerin Tam Çözüm Yöntemleri, Doctorate, E.AKSOY(Student), 2016

ÇEVİKEL A. C. , İNTEGRAL DENKLEMLERİN YAKLAŞIK ÇÖZÜMLERİ, Postgraduate, M.Tunçarslan(Student), 2012

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

- I. **Soliton solutions of nonlinear fractional differential equations with their applications in mathematical physics**  
Cevikel A. C. , Aksoy E.  
REVISTA MEXICANA DE FISICA, vol.67, no.3, pp.422-428, 2021 (Journal Indexed in SCI)
- II. **Study on Fractional Differential Equations with Modified Riemann-Liouville Derivative via Kudryashov Method**  
Aksoy E., Bekir A., ÇEVİKEL A. C.  
International Journal of Nonlinear Sciences and Numerical Simulation, vol.20, no.5, pp.511-516, 2019 (Journal Indexed in SCI)
- III. **A TRANSITION FROM TWO-PERSON ZERO-SUM GAMES TO COOPERATIVE GAMES WITH FUZZY**

## PAYOFFS

ÇEVİKEL A. C. , AHLATCIOĞLU M.

IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.15, no.7, pp.121-131, 2018 (Journal Indexed in SCI)

- IV. **NEW EXACT SOLUTIONS OF THE SPACE-TIME FRACTIONAL KdV-BURGERS AND NON-LINEAR FRACTIONAL FOAM DRAINAGE EQUATION**  
ÇEVİKEL A. C.  
THERMAL SCIENCE, vol.22, 2018 (Journal Indexed in SCI)
- V. **Singular 1-soliton solution of the nonlinear variable-coefficient diffusion reaction and mKdV equations**  
GUNER Ö., BEKIR A., ÜNSAL Ö., ÇEVİKEL A. C.  
AIP Conference Proceedings, 2017 (Journal Indexed in SCI)
- VI. **The  $(G'/G)$ -expansion method for the nonlinear time fractional differential equations**  
ÜNSAL Ö., GUNER Ö., BEKIR A., ÇEVİKEL A. C.  
AIP Conference Proceedings, 2017 (Journal Indexed in SCI)
- VII. **Exact Solutions for Fractional Differential-Difference Equations by  $(G'/G)$ -Expansion Method with Modified Riemann-Liouville Derivative**  
Bekir A., Guner O., Ayhan B., ÇEVİKEL A. C.  
ADVANCES IN APPLIED MATHEMATICS AND MECHANICS, vol.8, no.2, pp.293-305, 2016 (Journal Indexed in SCI)
- VIII. **Different methods for  $(3+1)$ -dimensional space-time fractional modified KdV-Zakharov-Kuznetsov equation**  
Guner O., AKSOY E., Bekir A., ÇEVİKEL A. C.  
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.71, no.6, pp.1259-1269, 2016 (Journal Indexed in SCI)
- IX. **Soliton solutions of  $(2+1)$ -dimensional time-fractional Zoomeron equation**  
AKSOY E., ÇEVİKEL A. C. , Bekir A.  
OPTIK, vol.127, no.17, pp.6933-6942, 2016 (Journal Indexed in SCI)
- X. **Exact solutions of nonlinear time fractional partial differential equations by sub-equation method**  
Bekir A., Aksoy E., ÇEVİKEL A. C.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.38, no.13, pp.2779-2784, 2015 (Journal Indexed in SCI)
- XI. **A variety of exact solutions for the time fractional Cahn-Allen equation**  
Guner O., Bekir A., ÇEVİKEL A. C.  
EUROPEAN PHYSICAL JOURNAL PLUS, vol.130, no.7, 2015 (Journal Indexed in SCI)
- XII. **Construction of periodic and solitary wave solutions for the complex nonlinear evolution equations**  
ÇEVİKEL A. C. , Bekir A., San S., GÜCEN M. B.  
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.351, no.2, pp.694-700, 2014 (Journal Indexed in SCI)
- XIII. **Bright and Dark Soliton Solutions of the  $(2+1)$ -Dimensional Evolution Equations**  
Bekir A., ÇEVİKEL A. C. , Guner O., San S.  
MATHEMATICAL MODELLING AND ANALYSIS, vol.19, no.1, pp.118-126, 2014 (Journal Indexed in SCI)
- XIV. **A Procedure to Construct Exact Solutions of Nonlinear Fractional Differential Equations**  
Guner O., ÇEVİKEL A. C.  
SCIENTIFIC WORLD JOURNAL, 2014 (Journal Indexed in SCI)
- XV. **Dark soliton and periodic wave solutions of nonlinear evolution equations**  
Guner O., Bekir A., ÇEVİKEL A. C.  
ADVANCES IN DIFFERENCE EQUATIONS, 2013 (Journal Indexed in SCI)
- XVI. **New Solitons and Periodic Solutions for  $(2+1)$ -dimensional Davey-Stewartson Equations**  
ÇEVİKEL A. C. , Bekir A.  
CHINESE JOURNAL OF PHYSICS, vol.51, no.1, pp.1-13, 2013 (Journal Indexed in SCI)
- XVII. **Fractional Complex Transform and exp-Function Methods for Fractional Differential Equations**  
Bekir A., Guner O., ÇEVİKEL A. C.  
ABSTRACT AND APPLIED ANALYSIS, 2013 (Journal Indexed in SCI)

- XVIII. **A procedure to construct exact solutions of nonlinear evolution equations**  
 ÇEVİKEL A. C. , Bekir A., AKAR M., San S.  
 PRAMANA-JOURNAL OF PHYSICS, vol.79, no.3, pp.337-344, 2012 (Journal Indexed in SCI)
- XIX. **Efficient solutions of systems of fractional PDEs by the differential transform method**  
 Seçer A., Akınlar M. A. , Çevikel A. C.  
 ADVANCES IN DIFFERENCE EQUATIONS, 2012 (Journal Indexed in SCI)
- XX. **New solitons and periodic solutions for nonlinear physical models in mathematical physics**  
 Bekir A., ÇEVİKEL A. C.  
 NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, vol.11, no.4, pp.3275-3285, 2010 (Journal Indexed in SCI)
- XXI. **Solutions for fuzzy matrix games**  
 ÇEVİKEL A. C. , AHLATCIOĞLU M.  
 COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.60, no.3, pp.399-410, 2010 (Journal Indexed in SCI)
- XXII. **New exact travelling wave solutions of nonlinear physical models**  
 Bekir A., ÇEVİKEL A. C.  
 CHAOS SOLITONS & FRACTALS, vol.41, no.4, pp.1733-1739, 2009 (Journal Indexed in SCI)
- XXIII. **Solitary wave solutions of two nonlinear physical models by tanh-coth method**  
 Bekir A., ÇEVİKEL A. C.  
 COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.14, no.5, pp.1804-1809, 2009  
 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Q-Taylor Method for Multiobjective Fractional Programming Problem**  
 Çevikel A. C. , Özavşar M.  
 European Journal of Science and Technology, no.16, pp.26-31, 2019 (Refereed Journals of Other Institutions)
- II. **Q-Taylor Series Method for Solving Fuzzy Multiobjective Linear Fractional Programming Problem**  
 ÇEVİKEL A. C.  
 EUROPEAN JOURNAL OF SCIENCE AND THEOLOGY, no.15, pp.10-17, 2019 (Refereed Journals of Other Institutions)
- III. **A NEW SOLUTION CONCEPT FOR SOLVING MULTI OBJECTIVE FRACTIONAL PROGRAMMING PROBLEM**  
 ÇEVİKEL A. C.  
 SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.10, pp.165-170, 2019 (Journal Indexed in ESCI)
- IV. **Fixed points of multiplicative contraction mappings on multiplicative metric spaces**  
 ÖZAVŞAR M., ÇEVİKEL A. C.  
 Journal of Engineering Technology and Applied Sciences, vol.2, pp.65-79, 2017 (Refereed Journals of Other Institutions)
- V. **The Exp-function Method for Some Time-fractional Differential Equations**  
 BEKIR A., GUNER O., ÇEVİKEL A. C.  
 IEEE-CAA JOURNAL OF AUTOMATICA SINICA, vol.4, no.2, pp.315-321, 2017 (Journal Indexed in ESCI)
- VI. **Explicit Solutions of Bogoyavlenskii Equation by the Exp-function Method and Ansatz Method**  
 AKSOY E., ÇEVİKEL A. C. , BEKIR A., GUNER Ö.  
 International Journal of Nonlinear Science, 2017 (Refereed Journals of Other Institutions)
- VII. **Using A Complex Transformation with Exp-Function Method to get an Exact Solutions for Fractional Differential Equation**  
 bekir a., ÇEVİKEL A. C.  
 Current Advances in Mathematics Research, 2014 (Refereed Journals of Other Institutions)
- VIII. **Dark-Bright Soliton Solutions for Some Evolution Equations**  
 ÇEVİKEL A. C. , Aksoy E., Güner Ö., Bekir A.  
 International Journal of Nonlinear Science, vol.16, no.3, pp.195-202, 2013 (Refereed Journals of Other Institutions)

- IX. **The tanh coth method combined with the Riccati equation for solving nonlinear coupled equation in mathematical physics**  
BEKİR A., ÇEVİKEL A. C.  
Journal of King Saud University - Science, 2011 (Refereed Journals of Other Institutions)
- X. **A linear Interactive Solution Concept for Fuzzy Multiobjective Games**  
ÇEVİKEL A. C. , AHLATCIOĞLU M.  
European Journal of Pure and Applied Mathematics, 2010 (Refereed Journals of Other Institutions)
- XI. **Fuzzy matris oyunların çözümleri üzerine**  
ÇEVİKEL A. C. , AHLATCIOĞLU M.  
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2010 (Other Refereed National Journals)
- XII. **A New Solution Concept in Fuzzy Matrix Games**  
ÇEVİKEL A. C. , AHLATCIOĞLU M.  
World Applied Sciences Journal, 2009 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Ders Kitap**  
DOĞAN M., ÇEVİKEL A. C. , Özgür B.  
DEKUS, 1 - 03 December 2019
- II. **Cahit Arf'xxı tanıyalım**  
ÇEVİKEL A. C. , Yılmaz İ.  
6. Yıldız Sosyal Bilimler Kongresi, 12 - 13 December 2019
- III. **A research on the role of creative drama in mathematics learning**  
Çevikel A. C.  
International Conference on Mathematics and Mathematics Education, Konya, Turkey, 11 - 13 July 2019, pp.19-20
- IV. **the role of drama in learning mathematics**  
ÇEVİKEL A. C. , Yılmaz İ.  
ICOMA-2019, 3 - 05 May 2019
- V. **A Study on the Role of Drama in Learning Mathematics**  
Çevikel A. C.  
2 nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 May 2019, pp.52-53
- VI. **Türklerin Matematiğe Katkıları: Gelenbevi İsmail Efendi Örneği**  
Çevikel A. C.  
TÜRK EĞİTİM KONGRESİ, İstanbul, Turkey, 27 - 28 December 2018
- VII. **Bright and Dark Soliton Solutions of Some Nonlinear Equations**  
Çevikel A. C.  
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 20 - 24 June 2018, pp.80-81
- VIII. **Periodic and Solitary Wave Solutions for the Nonlinear Evolution Equations**  
ÇEVİKEL A. C. , AKAR M.  
2018 AMS Spring Eastern Sectional Meeting, Boston, Ma, United States Of America, 21 April 2018, pp.150
- IX. **Bright and Dark Soliton Solutions for the KP Equation**  
AKAR M., ÇEVİKEL A. C.  
2018 AMS Spring Eastern Sectional Meeting, Boston, Ma, United States Of America, 21 April 2018, pp.150
- X. **Solitary Wave Solutions of Some Physical Models**  
ÇEVİKEL A. C. , AKAR M., ÖZKAN E. M.  
AMS, California, United States Of America, 04 November 2017, pp.1
- XI. **Periodic And Solitary Wave Solutions of Some Physical Models**  
Özkan E. M. , Akar M., Çevikel A. C.

1134th meeting of the American Mathematical Society, Riverside, California, United States Of America, 4 - 05 November 2017

- XII. **Transition from Two-Person Zero-Sum Games to Cooperative Games with Fuzzy Payoffs**  
ÇEVİKEL A. C. , AHLATCIOĞLU M.  
13th Algebraic Hyperstructures and its Applications, 24 - 27 July 2017
- XIII. **On Applications of Laplace Transform Method on Partial Differential Equations**  
Yıldırım Ö., Çevikel A. C. , Çağlak S.  
Int. Conference on App. Analysis and Math. Modeling, ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017, pp.1-10
- XIV. **Solutions of matrix games with fuzzy goals**  
Çevikel A. C.  
Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 3 - 07 June 2017, pp.39-40
- XV. **Singular 1-soliton solution of the nonlinear variable-coefficient diffusion reaction and mKdV equations**  
GÜNER Ö., BEKİR A., ÜNSAL Ö., ÇEVİKEL A. C.  
11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences, 04 July 2017 - 08 July 2016
- XVI. **The (G'/G)-expansion method for the nonlinear time fractional differential equations**  
ÜNSAL Ö., özkan G., BEKİR A., ÇEVİKEL A. C.  
11th International Conference on Mathematical Problems in Engineering, 4 - 08 July 2016
- XVII. **Exact Solutions of the 3 1 dimensional Space time Fractional Jimbo Miwa Equation**  
AKSOY E., GÜNER Ö., BEKİR A., ÇEVİKEL A. C.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), 23 - 29 September 2015
- XVIII. **Vaiious Methods for Solving Time Fractional KdV Zakharov Kuznetsov Equation**  
GÜNER Ö., AKSOY E., BEKİR A., ÇEVİKEL A. C.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), 23 - 29 September 2015
- XIX. **Periodic and solitary wave solutions of nonlinear evolution equations**  
ÇEVİKEL A. C.  
International Congress on Fundamental and Applied Sciences, 22 - 26 August 2016
- XX. **Exact solutions of the Fisher-type equation with time-dependent coefficients**  
Güner Ö., ÇEVİKEL A. C.  
International Congress on Fundamental and Applied Sciences, 01 August 2016
- XXI. **Zero-sum games with fuzzy goal**  
ÇEVİKEL A. C.  
International Congress on Fundamental and Applied Sciences, 01 August 2016
- XXII. **New exact solutions of some nonlinear PDEs**  
ÇEVİKEL A. C.  
International Congress on Fundamental and Applied Sciences, 01 August 2016
- XXIII. **Various methods for solving time fractional KdV-Zakharov-Kuznetsov equation**  
Guner O., Aksoy E., Bekir A., ÇEVİKEL A. C.  
International Conference of Numerical Analysis and Applied Mathematics 2015, ICNAAM 2015, Rhodes, Greece, 23 - 29 September 2015, vol.1738
- XXIV. **Different methods for nonlinear fractional differential equation**  
GÜNER Ö., BEKİR A., ÇEVİKEL A. C. , ESİN A.  
4. International Eurasian Conference on Mathematical Sciences and Applications, 31 August - 03 September 2015
- XXV. **Application of the fractional differential equations with modified Riemann Liouville derivative via generalized Kudryashov method**  
ESİN A., ÇEVİKEL A. C. , BEKİR A.  
International Conference on Applied Analysis and Matematical Modelling, 8 - 12 June 2015
- XXVI. **Application of the ansatz method to fractional differential equations**  
GÜNER Ö., BEKİR A., ÇEVİKEL A. C.  
International Conference on Applied Analysis and Matematical Modelling, 8 - 12 June 2015

- XXVII. **New exact solutions of the time fractional Huxley equation including modified Riemann-Liouville derivative using three different methods**  
ÇEVİKEL A. C. , aksoy e., bekir a.  
International Conference on Applied Analysis and Matematical Modelling, 01 June 2015
- XXVIII. **(2+1)- Boyutlu zaman kesir mertebeli Zoomeron denkleminin tam çözümleri**  
bekir a., ÇEVİKEL A. C.  
14. Matematik Sempozyumu, 01 May 2015
- XXIX. **A Variety of Exact Solutions for the Time Fractional Cahn-Allen Equation**  
Çevikel A. C.  
3rd International Eurasian Conference on Mathematical Sciences and Applications, Vienna, Austria, 25 - 28 August 2014, pp.25-26
- XXX. **Kesir mertebeli kısmi diferensiyel denklemlerin alt denklem metoduyla çözümleri**  
ÇEVİKEL A. C. , bekir a.  
13. Matematik Sempozyumu, 01 May 2014
- XXXI. **Exact Solutions of Nonlinear Fractional Partial Differential Equation**  
Çevikel A. C.  
SIAM Conference on Analysis of Partial Differential Equations, Florida, United States Of America, 7 - 10 December 2013, pp.7-8
- XXXII. **Application of the Exp-function Method to Some Space-Time Fractional Partial Differential Equation**  
Bekir A., ÇEVİKEL A. C.  
2nd International Eurasian Conference on Mathematical Sciences and Applications, 01 August 2013
- XXXIII. **Exact solutions of nonlinear space-time fractional differential equations**  
güner ö., ÇEVİKEL A. C.  
International Conference on Applied Analysis and Matematical Modelling, 01 June 2013
- XXXIV. **Kesir Mertebeli Diferansiyel Denklemlerin Üstel Fonksiyon Metoduyla Çözümleri**  
Bekir A., ÇEVİKEL A. C.  
12. Matematik Sempozyum Sergi ve Şenlikleri Konferansı, 01 May 2013
- XXXV. **Lineer olmayan Oluşum denklemleri için tam soliton çözümler**  
ÇEVİKEL A. C. , Bekir A., güner O., aksoy e.  
XXV. Ulusal Matematik Sempozyumu, 01 September 2012
- XXXVI. **Soliton Solutions for Some Evolution Equations**  
ÇEVİKEL A. C. , Aksoy E., Güner Ö., Bekir A.  
International Conference on Applied Analysis and Algebra 2012, 01 June 2012
- XXXVII. **Bright and Dark Soliton Solutions for the Variable Coefficient Generalizations of the KP Equation**  
Bekir A., Guner O., ÇEVİKEL A. C.  
1st International Conference on Analysis and Applied Mathematics (ICAAM), Gümüşhane, Turkey, 18 - 21 October 2012, vol.1470, pp.31-34
- XXXVIII. **An Algebraic Procedure to Construct Exact Solutions of Nonlinear Evolution Equations**  
AKAR M., Çevikel A. C. , Bekir A., San S.  
SIAM Conference on Analysis of Partial Differential Equations (PD11), 01 November 2011
- XXXIX. **Construction Of Periodic And Solitary Wave Solutions For The Complex Nonlinear Evolution Equations**  
Gücen M. B. , Çevikel A. C. , San S., Bekir A.  
ICAAA 2011, İstanbul, Turkey, 29 - 30 June 2011, pp.1-2
- XL. **Fuzzy ödemeli matris oyunların çözümleri üzerine**  
ÇEVİKEL A. C. , ahlatcioglu m.  
XXIII. Ulusal Matematik Sempozyumu,, 01 September 2010
- XLI. **Exact solutions of nonlinear Boussinesq equation,**  
Çevikel A. C.  
XXI. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 1 - 04 September 2009, pp.94-95
- XLII. **Fuzzy hedefli ve fuzzy ödemeli çok amaçlı iki kişili sıfır toplamlı oyunlara bir çözüm önerisi**

ÇEVİKEL A. C.

XXI. Ulusal Matematik Sempozyumu, Koç Üniversitesi, 01 September 2008

### **Supported Projects**

Çevikel A. C. , Ünsal Ö., Project Supported by Other Official Institutions, Lineer Olmayan Diferensiyel Denklemlerin Komplektion çözümleri, 2015 - 2017

ÇEVİKEL A. C. , Project Supported by Higher Education Institutions, Lineer Olmayan Kesir Mertebeli Diferansiyel Denklemlerin Tam Çözüm Yöntemleri, 2014 - 2015

### **Activities in Scientific Journals**

New Trends in Mathematical Sciences, Committee Member, 2013 - Continues

### **Memberships / Tasks in Scientific Organizations**

MATDER, Member, 2013 - Continues

### **Citations**

Total Citations (WOS):516

h-index (WOS):14