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## **ACADEMIC BACKGROUND:**

**Professor of Applied Mathematics 2003.** Department of Mathematics, Faculty of Art and Sciences, Celal Bayar University, Turkey.

**Ph.D. 1981. (Mathematics)** .Oklahoma State University, Stillwater, 74078, USA Dissertation title: Dynamical Systems of Metric Spaces.

**M.Sc. 1978.** University of Louisville, Louisville, Kentucky, 40208, USA. Specializations: Complex Dynamics.

**B.Sc. 1974.** Mathematics. Ankara University, Ankara, Turkey.

## **TEACHING EXPERIENCE:**

**Celal Bayar University, Muradiye , Manisa, Turkey, 1997 - Present.** Teach the Following Courses: Nonlinear Differential Equations, Complex Analysis, Numerical Analysis, Partial and Ordinary Differential Equations, Engineering Mathematics, Computer Science Programming , Calculus I&II (Undergraduate); Advanced Numerical Analysis, Complex Variables, Advanced Nonlinear Differential Equations and Stability Theory (Graduate).

**Atatürk University , Erzurum, Turkey, 1974-1975,** Assistant.

**Ankara University , Ankara, Turkey, 1975-1976,** Assistant

**Fırat University , Elazığ, Turkey, 1981-1988,** Lecturer

**Fırat University , Elazığ, Turkey, 1988-1995,** Assistant Professor of Mathematics

**Fırat University , Elazığ, Turkey, 1995 – 1997,** Associate Professor of Mathematics

**Celal Bayar University, Manisa, Turkey, 1997-2003,** Associate Professor of Mathematics

**Celal Bayar University, Manisa, Turkey, 2003- ,** Professor

**Celal Bayar University, Manisa, Turkey, 1997-2012,** Head of the Department of Mathematics

**Celal Bayar University, Manisa, Turkey, 2003-2005,** Head of Graduate School of Natural and Applied Sciences

**Celal Bayar University, Manisa, Turkey, 2005-2008,** Dean of the Faculty of Art & Sciences

**Celal Bayar University, Manisa, Turkey, 1997- 2012,** Head of the Department of Mathematics and Chief of the Division of Applied Mathematics; Managed Departmental Personnel Matters and Budget Established the Master of Science in Mathematics Program. Improved Communication between the University, the School of Engineering and Department of Mathematics Provided Leadership in Research and Teaching Excellence in both the Department of Mathematics and the School of Engineering.

## **RESEARCH AND PUBLICATIONS:**

1. Ergüt M., Aydın A. P., Bildik N., "The Geometry of Canonical Relative System and One-Parameter Motions in 2-Dimensional Lorentzian Space", *The Journal of Firat University , Science and Technology*, Vol .3, No.1, pp:113-122 (1988).(Cited 5\*\*)
2. Ergüt M., Aydın A. P., Bildik N., "The Steiner Formula for the Complex Closed Exponential Motion in Lorentzian Space  $E^2$  ", *The Journal of Firat University, Science and Technology*, Vol .3, No.2, pp:33-40 (1988).
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4. Bildik N., "Some Properties of Lebesgue Measure in Hilbert Spaces", *The Journal of Firat University , Science and Technology*, Vol. 4, No:1, pp:107-113 (1989).
5. Ergüt M., Bildik N., Aydın A. P., "Apex Point of the Pole Trajectories in 2-Dimensional Lorentzian Space  $L^2$  ", *Pure and Applied Mathematica Sciences*, Vol XXXVII, No.1-2 , March (1993).
6. Bildik N., "A Note on Dulac's Problem for Quadratic Vector Fields I", *Firat University, Journal of Science and Engineering*, Vol . 6, No.1, pp:31-40 (1994).
7. Bildik N., "Survey of Dulac's Problem for Quadratic Vector Fields", *Firat University, Journal of Science and Engineering*, Vol . 6, No.2, pp: 92-99 (1994).
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9. Bildik N., Akin Ö., "A Survey of Dulac's Problem", *Firat University, Journal of Science and Engineering*, Vol .7, No.1, pp: 32-41 (1995).
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11. Bildik N., "Dynamical Homeomorphism and Dynamical Isomorphism in Dynamical Systems" *Firat University , Journal of Science and Engineering*, Vol .7, No.2, pp: 7-13 (1995).
12. Bildik N., "Lebesgue Measure in  $L^2$  by Parseval's Formula", *The Journal of Firat University,, Science and Technology*, Vol. 7, No:2, pp:13-17 (1995).
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14. Bildik N., "Trigonometric Polinomials Concerning to the Parseval's Formula in  $L^2$  ", *The Journal of Firat University , Science and Technology*, Vol. 8, No:1, pp: 35-44 (1996).

15. Bildik N., "Some Properties of the Fourier Series in Two Dimensional Space  $R^2$  (or  $C$ )", *The Journal of Firat University , Science and Technology* , Vol . 8, No:2, pp:17-25 (1996).
16. Bildik N., Ergüt M., "The Steiner Formula for the Complex Homothetic Closed Exponential Motion in  $E^2$ ", *The Journal of Firat University , Science and Technology*, Vol .9, No:2, pp:129-134 (1997).
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20. Bildik, N., Bulut, H. "An A-Stable Extended Simpson Rule for the Numerical Integration of Ordinary Differential Equations", *Hadronic Journal Supplement*, Vol. 14, pp:449-457 (1999).
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23. İnç M., Bildik N., "Non-Perturbative Solution of the Ginzburg-Landau Equation", *Mathematical & Computational Applications*, Vol.5, No.2, pp: 113-117 (2000). (Cited 5\*\*)
24. Yılmaz T., Bildik N., Yılmaz B., "Ege Denizi'ne Kıyısı Bulunan Akarsu Havzalarında Sediment Taşınımı" , *İzmir İnşaat Mühendisleri Odası*, Sayı: 108-109, Sayfa: 25-29 , Aralık 2002-Şubat 2003.
25. Küçükarslan S., Banerjee P.K., Bildik N., "Inelastic Analysis of Pile Soil Structure Interaction" *Engineering Structures*, Vol.25, pp:1231-1239 (2003) <http://www.elsevier.com/locate/engstruct> (Cited 22\*), [http://dx.doi.org/10.1016/S0141-0296\(03\)00083-X](http://dx.doi.org/10.1016/S0141-0296(03)00083-X).
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42. Atangana A.,Aden A.,Bildik N., *A Generalized Version of a Low Velocity Impact between a Rigid Sphere and a Transversely Isotropic Strain-hardening Plate Supported by a Rigid Substrate using the Concept of Non-integer Derivatives*, *Abstract and Applied Analysis*,Volume 2013 (2013), Article ID 671321, 9 pages, <http://dx.doi.org/10.1155/2013/671321>. (Cited 15\*)
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53. Bildik N., Erdoğan.Ş., *Implementation to the Different Differential Equations of Homotopy Analysis, Differential Transformed and Adomian Decomposition Method*, *IJMO* 2013 2013 *International Journal of Modeling and Optimization*,pp 529-534, Vol.3, No.6, Singapore.,ISSN: 2010-3697 , **Doi: 10.7763/IJMO.2013.V3.335**. (Cited 1\*).
54. Öztunç S., Mutlu A., Bildik N., *Computing Hypercrossed Complex Pairing in Digital Images*, *Abstract and Applied Analysis*, **Volume** 2013 (2013), Article ID 759801, 8 pages, <http://dx.doi.org/10.1155/2013/759801>.
55. Mutlu A ,Yolcu N.,Mutlu B.,Bildik N. ,*Common Coupled Fixed Point Theorems for Comparable Mappings in Ordered Partially Metric Spaces*, *Abstract and Applied Analysis*, **Volume** 2014(2014), Article ID 486384, 6 pages, <http://dx.doi.org/10.1155/2014/486384>. (Cited 2\*).
56. Bildik N., *Symposium on Implementation of the Different Type of the Numerical Methods for Caputo's, Riemann-Liouville and Grünwald-Letnikov sense Fractional-order Differential Equations*, *AIP Conference Proceedings* **1558**, 1913 (2013); doi: 10.1063/1.4825906.
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58. Bildik N., Deniz S., *Applications of Taylor Collocation Method and Lambert W Function to the System of Delay Differential Equations*, *TJMCS*, Article ID 20130033, 13 Pages, 2013. (Cited 5\*).
59. S. Deniz, N. Bildik,"*Comparison of Adomian Decomposition Method and Taylor Matrix Method in Solving Different Kinds of Partial Differential Equations*", *International Journal of Modelling and Optimization*, 2014 Vol.4(4): 292-298 ISSN: 2010-3697. (Cited 15\*).
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61. N. Bildik, S. Deniz, "Comparison of solutions of systems of delay differential equations using Taylor collocation method, Lambert W function and variational iteration method." *Scientia Iranica. Transaction D, Computer Science & Engineering and Electrical Engineering*, 22.3, 1052-1058,(2015). (Cited 14\*).
62. D.Dönmez Demir, B.G.Sinir, N.Bildik,"Dynamical Behaviour of Axially Moving String Constituted by a Fractional Differential Law", *IJST; Transactions of Mechanical Engineering*,Vol. 39, No. M2pp. 283-290.(2015). (Cited 1\*).
63. N. Bildik, S. Deniz, "Implementation of taylor collocation and adomian decomposition method for systems of ordinary differential equations." *Proceedings of the International Conference on Numerical Analysis And Applied Mathematics 2014 (ICNAAM-2014)*. Vol. 1648. AIP Publishing, 2015. (Cited 6\*).
64. Bildik, Necdet, and Duygu Dönmez Demir. "Preface of the "Symposium on some new trends in nonlinear differential equations". " *Proceedings of the International Conference on Numerical Analysis and Applied Mathematics 2014 (ICNAAM-2014)*. Vol. 1648. AIP Publishing, 2015.
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#### **PROCEEDINGS:**

1. Bildik N., Aydın A. P., Ergüt M., "The Steiner Field Formula for the Explicit Exponential Motion in Lorentzian Space  $L^2$ ", *Proceedings 22 nd Annual Iranian Mathematics Conference*, March 13-16, Ferdowsi University of Mashhad, Iran, pp.54-61 (1991).

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5. Panakhov E.S., Bildik N., "On the Definition of Dirac System by Two Incomplete Given Collection of Eigen Values", Seventh International Colloquium on Differential Equation, Plovdiv-Bulgaria (1996), Abstract, pp. 35.
6. Bildik N., "An A-Stable Extended Rectangular Rule for the Integration of Ordinary Differential Equations" Matematik Sempozyumu, Balıkesir Üniversitesi, 05-08 Haziran 1997, Sarımsaklı / Balıkesir, Abstract pp. 57.
7. Bildik N., "An A-Stable Extended Simpson Rule for the Integration of Ordinary Differential Equations", Uluslararası Fonksiyone Diferansiyel-Fark Denklemler ve Uygulamaları Konferansı, 18-22 Ağustos 1997, Antalya, Abstract, pp. 26.
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10. Bildik, N., İnç, M., "On the Stability of the Numerical Solution of the Initial Value Problems fo Nonlinear Trapezoidal Formulas with Different Types" Sakarya Matematik Sempozyumu, 11-13 Eylül 1997, Abstract pp. 40, Sakarya Üniversitesi, Fen-Edebiyat Fakültesi, Adapazarı.
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12. Bildik N., Kaya D., Çatalbaş N., "A Computer Program for the Implementation of Adomoian's Decomposition Method" Atatürk Üniversitesi, Fen-Edebiyat Fakültesi, K.K. Eğitim Fakültesi, 40. Kuruluş Yıldönümü Matematik Sempozyumu, 20-22 Mayıs 1998, Abstract, pp.42, Erzurum.
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1. 2013 2nd International Conference on Pure and Applied Mathematics (ICPAM 2013) July 20-21, 2013, Moscow/ Russia <http://www.icpam.org/com.htm>
2. International Conference on Applied Analysis and Mathematical Modelling(ICAAMM-2013),Yıldız Technical University, İstanbul/TURKEY, <http://www.ntmsci.com/Conferences/ICAAMM2015/Location>
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7. 2015 The 4th International Conference on and Applied Mathematics (ICPAM 2015) July 16-17, 2015, Roma/ITALY. <http://www.icpam.org/com.htm>
8. 2016 The 5th International Conference on and Applied Mathematics (ICPAM 2016) July 18-22, 2016, London/ENGLAND. <http://www.icpam.org/com.htm>
9. International Conference in Nonlinear Problems in Aviation and Aerospace (ICNPAA 2016), 5-8 July 2016, La Rochelle-FRANCE. <http://www.internationalmathematics.com/icnpaa/>
10. 2017 The 6th International Conference on and Applied Mathematics (ICPAM 2017) July 22-27, 2017, Prague/CZECH REPUBLIC. <http://www.icpam.org/com.htm>

## **INTERNATIONAL CONFERENCE ORGANIZER**

1. 11th International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2013, 21-27 September 2013, Rodos Palace Hotel, Rhodes, Greece.
2. Mathematical Problems in Engineering, Aerospace and Sciences , ICNPAA 2014 Congress, July 15,2014-July 18 2014,Narvik University, Norway.
3. 12th International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2014, 22-28 September 2014, Rodos Palace Hotel, Rhodes, Greece.

4. 2014 International Conference on Mechanics and Civil Engineering, December 13-14, Wuhan, Hubei, China.

5. 13th International Conference of Numerical Analysis and Applied Mathematics, ICNAAM 2015, 23-29 September 2015, Rodos Palace Hotel, Rhodes, Greece.

6. 2016 International Conference on Building Materials and Civil Engineering, December 10-11, Wuhan, Hubei, China.

#### **PROGRAM CHAIR ON INTERNATIONAL CONFERENCE:**

1. 2014 The 3rd International Conference on and Applied Mathematics (ICPAM 2014) July 18-19, 2014, Madrid/SPAIN. <http://www.icpam.org/com.htm>

2. 2015 The 4th International Conference on and Applied Mathematics (ICPAM 2015) July 16-17, 2015, Roma/ITALY. <http://www.icpam.org/com.htm>

3. 2016 The 5th International Conference on and Applied Mathematics (ICPAM 2016) July 18-22, 2016, London/ENGLAND. <http://www.icpam.org/com.htm>

4. International Conference in Nonlinear Problems in Aviation and Aerospace (ICNPAA 2016), 5-8 July 2016, La Rochelle-FRANCE.  
<http://www.internationalmathematics.com/icnpaa/>

5. 2017 The 6th International Conference on and Applied Mathematics (ICPAM 2017) July 22-27, 2017, Prague/CZECH REPUBLIC. <http://www.icpam.org/com.htm>

#### **MEMBERSHIPS**

1. Uygulamalı Matematik ve Hesaplama Merkezi (AMCC), Celal Bayar Üniversitesi, Manisa

2. Türk Matematik Derneği, Ankara.

3. Matematikçiler Derneği, Ankara.

4. American Association for the Advancement of Science, USA.

5. New York Academy of Science, USA.



6. *International Center for Theoretical Physics, Trieste , Italy*

**EDITORIAL REVIEW BOARD:**

1. [International Journal of Open Problems in Computer Science and Mathematics, IJOPCM, ISSN:1998-6262, 2009-](#)

2. [Mathematical Problems in Engineering, Hindawi Publishing.](#)

3. [Parallel Computing, Elsevier.](#)

4. [International Journal of Computer Mathematics, Taylor&Francis, 2008.](#)

5. [International Journal of Mathematics and Mathematical Sciences, Hindawi Publishing.](#)

6. [Journal of Zhejiang University SCIENCE A, 2009.](#)

7. [Advanced Research in Scientific Areas, December 1-5, 2014.](#)