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Publons / Web Of Science ResearcherID: C-1220-2016

ScopusID: 41262826200

Yoksis Researcher ID: 146184



Learning Knowledge

Doctorate
2009 - 2012

Mugla Sitki Kocman University, Fen Bilimler Enstitüsü, Matematik, Turkey

Postgraduate
2006 - 2009

Mugla Sitki Kocman University, Institute Of Science, Matematik, Turkey

Undergraduate
2002 - 2005

Mugla Sitki Kocman University, Faculty Of Arts And Sciences, Matematik, Turkey

Dissertations

Doctorate, İkinci Mertebe Kısmi Diferansiyel Denklemlerin Nümerik Çözümleri için Bessel Sıralama (Collocation) Metodu, Mugla Sitki Kocman University, Fen Bilimleri Enstitüsü, Matematik, 2012

Postgraduate, Lineer Diferansiyel, İntegral ve İntegro-Diferansiyel Denklemlerin Bessel Polinom Çözümleri, Mugla Sitki Kocman University, Fen Bilimleri Enstitüsü, Matematik, 2009

Academic Titles / Tasks

Professor
2022 - Continues

Akdeniz University, Faculty of Science, Department of Mathematics

Associate Professor

2015 - 2022

Akdeniz University, Faculty of Science, Department of Mathematics

Assistant Professor

2013 - 2015

Akdeniz University, Faculty of Science, Department of Mathematics

Research Assistant

2007 - 2012

Muğla Üniversitesi, Fen Fakültesi, Matematik

Awards

1. Yüzbaşı Ş., 2020 SCIENTIST OF THE YEAR AWARD-THE YOUNG SCIENTIST AWARD, Bilim Kahramanları Derneği, October 2021

Jury Memberships

Post Graduate, Tez Savunma, Akdeniz Üniversitesi, February, 2021

Post Graduate, Tez Savunma, Akdeniz Üniversitesi, February, 2021

Post Graduate, Tez Savunma Jürisi, Akdeniz Üniversitesi, June, 2018

Doctorate, Tez Savunma Jürisi, Akdeniz Üniversitesi, June, 2018

Academic Staff Examination, Öğretim Görevlisi Alımı Jüri Üyeliği, Akdeniz Üniversitesi, Öğretim Görevlisi Alımı Jüri Üyeliği, November, 2017

Post Graduate, Tez Savunma Jürisi, Akdeniz Üniversitesi, June, 2017

Post Graduate, Tez Savunma Jürisi, Akdeniz Üniversitesi, October, 2013

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Fractional Bell collocation method for solving linear fractional integro-differential equations**
YÜZBAŞI Ş.
Mathematical Sciences, vol.18, no.1, pp.29-40, 2024 (SCI-Expanded)
2. **A new Chelyshkov matrix method to solve linear and nonlinear fractional delay differential equations with error analysis**
Izadi M., YÜZBAŞI Ş., Adel W.
Mathematical Sciences, vol.17, no.3, pp.267-284, 2023 (SCI-Expanded)
3. **Approximating solutions to fractional-order Bagley-Torvik equation via generalized Bessel polynomial on large domains**
Izadi M., YÜZBAŞI Ş., Cattani C.
RICERCHE DI MATEMATICA, vol.72, no.1, pp.235-261, 2023 (SCI-Expanded)
4. **Numerical solutions of the Bagley-Torvik equation by using generalized functions with fractional powers of Laguerre polynomials**
Yüzbaşı Ş., Yıldırım G.
International Journal of Nonlinear Sciences and Numerical Simulation, vol.24, no.3, pp.1003-1021, 2023 (SCI-Expanded)
5. **Pell-Lucas collocation method for solving a class of second order nonlinear differential equations with variable delays**

YÜZBAŞI Ş., YILDIRIM G.

TURKISH JOURNAL OF MATHEMATICS, vol.47, no.1, pp.37-55, 2023 (SCI-Expanded)

6. **A Pell–Lucas Collocation Approach for an SIR Model on the Spread of the Novel Coronavirus (SARS CoV-2) Pandemic: The Case of Turkey**
Yüzbaşı Ş., Yıldırım G.
MATHEMATICS, vol.11, no.3, pp.697-719, 2023 (SCI-Expanded)
7. **A numerical approach to solve hyperbolic telegraph equations via Pell–Lucas polynomials**
YÜZBAŞI Ş., YILDIRIM G.
Journal of Taibah University for Science, vol.17, no.1, 2023 (SCI-Expanded)
8. **A Numerical Investigation Based on Exponential Collocation Method for Nonlinear Sitr Model of COVID-19**
Aslefallah M., Yüzbaşı Ş., Abbasbandy S.
CMES - COMPUTER MODELING IN ENGINEERING AND SCIENCES, vol.136, pp.1687-1706, 2023 (SCI-Expanded)
9. **A Taylor-Chebyshev approximation technique to solve the 1D and 2D nonlinear Burgers equations**
Izadi M., Yüzbaşı Ş., Baleanu D.
MATHEMATICAL SCIENCES, vol.16, pp.459-471, 2022 (SCI-Expanded)
10. **Bessel-quasilinearization technique to solve the fractional-order HIV-1 infection of CD4+ T-cells considering the impact of antiviral drug treatment**
YÜZBAŞI Ş., Izadi M.
Applied Mathematics and Computation, vol.431, 2022 (SCI-Expanded)
11. **Existence and numerical analysis using Haar wavelet for fourth-order multi-term fractional differential equations**
Amin R., Shah K., Mlaiki N., YÜZBAŞI Ş., Abdeljawad T., Hussain A.
Computational and Applied Mathematics, vol.41, no.7, 2022 (SCI-Expanded)
12. **Accurate and efficient matrix techniques for solving the fractional Lotka–Volterra population model**
Izadi M., YÜZBAŞI Ş., Adel W.
Physica A: Statistical Mechanics and its Applications, vol.600, 2022 (SCI-Expanded)
13. **A collocation method to solve the parabolic-type partial integro-differential equations via Pell–Lucas polynomials**
YÜZBAŞI Ş., YILDIRIM G.
Applied Mathematics and Computation, vol.421, 2022 (SCI-Expanded)
14. **A new Bell function approach to solve linear fractional differential equations**
YÜZBAŞI Ş.
APPLIED NUMERICAL MATHEMATICS, vol.174, pp.221-235, 2022 (SCI-Expanded)
15. **A hybrid approximation scheme for 1-D singularly perturbed parabolic convection-diffusion problems**
Izadi M., YÜZBAŞI Ş.
Mathematical Communications, vol.27, no.1, pp.47-62, 2022 (SCI-Expanded)
16. **A Galerkin-type approach to solve systems of linear Volterra-Fredholm integro-differential equations**
KARAÇAYIR M., YÜZBAŞI Ş.
Turkish Journal of Mathematics, vol.46, no.8, pp.3121-3138, 2022 (SCI-Expanded)
17. **A Pell-Lucas approximation to solve the Abel equation of the second kind**
YÜZBAŞI Ş., YILDIRIM G.
Ricerche di Matematica, 2022 (SCI-Expanded)
18. **A Higher-Order Galerkin Time Discretization and Numerical Comparisons for Two Models of HIV Infection**
Attaullah A., YÜZBAŞI Ş., Alyobi S., Yassen M. F., Weera W.
Computational and Mathematical Methods in Medicine, vol.2022, 2022 (SCI-Expanded)
19. **A matrix-collocation method for solutions of singularly perturbed differential equations via Euler polynomials**

ELMACI D., YÜZBAŞI Ş., Savaşaneril N. B.

Turkish Journal of Mathematics, vol.46, no.8, pp.3260-3275, 2022 (SCI-Expanded)

20. **Efficient Numerical Scheme for the Solution of HIV Infection CD4(+) T-Cells Using Haar Wavelet Technique**
Amin R., YÜZBAŞI Ş., Nazir S.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.130, 2022 (SCI-Expanded)
21. **An operational matrix method to solve the Lotka-Volterra predator-prey models with discrete delays**
YÜZBAŞI Ş.
CHAOS SOLITONS & FRACTALS, vol.153, 2021 (SCI-Expanded)
22. **Two Novel Bessel Matrix Techniques to Solve the Squeezing Flow Problem between Infinite Parallel Plates**
Izadi M., YÜZBAŞI Ş., Adel W.
COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS, vol.61, no.12, pp.2034-2053, 2021 (SCI-Expanded)
23. **Application of Vieta-Lucas Series to Solve a Class of Multi-Pantograph Delay Differential Equations with Singularity**
Izadi M., Yuezbasi Ş., Ansari K. J.
SYMMETRY-BASEL, vol.13, no.12, 2021 (SCI-Expanded)
24. **Dynamical behaviour of HIV Infection with the influence of variable source term through Galerkin method**
Ullah A., Jan R., Yüzbaşı Ş.
CHAOS SOLITONS & FRACTALS, vol.152, 2021 (SCI-Expanded)
25. **Spectral solutions of fractional differential equations modelling combined drug therapy for HIV infection**
Thirumalai S., Seshadri R., Yüzbaşı Ş.
CHAOS SOLITONS & FRACTALS, vol.151, 2021 (SCI-Expanded)
26. **Approximating Solutions of Non-Linear Troesch's Problem via an Efficient Quasi-Linearization Bessel Approach**
Izadi M., YÜZBAŞI Ş., Noeiaghdam S.
MATHEMATICS, vol.9, no.16, 2021 (SCI-Expanded)
27. **On the solution of the Human Immunodeficiency Virus (HIV) infection model using spectral collocation method**
Thirumalai S., Seshadri R., Yuzbasii Ş.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.14, no.2, 2021 (SCI-Expanded)
28. **Legendre Collocation Method to Solve the Riccati Equations with Functional Arguments**
YÜZBAŞI Ş., YILDIRIM G.
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.17, no.10, 2020 (SCI-Expanded)
29. **An Optimization Method Based on the Generalized Polynomials for a Model of HIV Infection of CD4(+) T Cells**
HASSANI H., Mehrabi S., NARAGHIRAD E., NAGHMACHI M., YÜZBAŞI Ş.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.44, no.2, pp.407-416, 2020 (SCI-Expanded)
30. **An approximation technique for solutions of singularly perturbed one-dimensional convection-diffusion problem**
YÜZBAŞI Ş., KARAÇAYIR M.
International Journal of Numerical Modelling: Electronic Networks, INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.33, no.1, 2020 (SCI-Expanded)
31. **Pell-Lucas collocation method to solve high-order linear Fredholm-Volterra integro-differential equations and residual correction**
YÜZBAŞI Ş., YILDIRIM G.

TURKISH JOURNAL OF MATHEMATICS, vol.44, no.4, pp.1065-1091, 2020 (SCI-Expanded)

32. **Pell-Lucas collocation method for numerical solutions of two population models and residual correction**
YÜZBAŞI Ş., YILDIRIM G.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.14, no.1, pp.1262-1278, 2020 (SCI-Expanded)
33. **An approximation technique for solutions of singularly perturbed one-dimensional convection-diffusion problem**
YÜZBAŞI Ş., KARAÇAYIR M.
INTERNATIONAL JOURNAL OF NUMERICAL MODELLING-ELECTRONIC NETWORKS DEVICES AND FIELDS, vol.33, no.1, 2020 (SCI-Expanded)
34. **A Galerkin-like method for solving linear functional differential equations under initial conditions**
YÜZBAŞI Ş., KARAÇAYIR M.
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.1, pp.85-97, 2020 (SCI-Expanded)
35. **An operational method for solutions of Riccati type differential equations with functional arguments**
YÜZBAŞI Ş.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.14, no.1, pp.661-669, 2020 (SCI-Expanded)
36. **A Galerkin-Type Fractional Approach for Solutions of Bagley-Torvik Equations**
YÜZBAŞI Ş., KARAÇAYIR M.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.123, no.3, pp.941-956, 2020 (SCI-Expanded)
37. **Introduction to the Special Issue on Numerical Methods for Differential and Integral Equations**
YÜZBAŞI Ş., Al-Khaled K., BAYKUŞ SAVAŞANERİL N., Kumar D.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.123, no.3, pp.913-915, 2020 (SCI-Expanded)
38. **Population dynamics between a prey and a predator using spectral collocation method**
Thirumalai S., SESHADRI R., YÜZBAŞI Ş.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.12, no.5, 2019 (SCI-Expanded)
39. **A collocation approach for solving two-dimensional second-order linear hyperbolic equations**
YÜZBAŞI Ş.
APPLIED MATHEMATICS AND COMPUTATION, vol.338, pp.101-114, 2018 (SCI-Expanded)
40. **A Galerkin-Type Method for Solving a Delayed Model on HIV Infection of CD4(+) T-cells**
YÜZBAŞI Ş., KARAÇAYIR M.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.42, no.A3, pp.1087-1095, 2018 (SCI-Expanded)
41. **A Galerkin-Type Method to Solve One-Dimensional Telegraph Equation Using Collocation Points in Initial and Boundary Conditions**
YÜZBAŞI Ş., KARAÇAYIR M.
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.15, no.5, 2018 (SCI-Expanded)
42. **A Numerical Approach for Solving High-Order Linear Delay Volterra Integro-Differential Equations**
YÜZBAŞI Ş., KARAÇAYIR M.
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.15, no.5, 2018 (SCI-Expanded)
43. **A numerical method for solutions of Lotka-Volterra predator-prey model with time-delay**
YÜZBAŞI Ş., KARAÇAYIR M.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.11, no.2, 2018 (SCI-Expanded)
44. **A Galerkin-Like Approach to Solve Multi-Pantograph Type Delay Differential Equations**
YÜZBAŞI Ş., KARAÇAYIR M.
FILOMAT, vol.32, no.2, pp.409-422, 2018 (SCI-Expanded)
45. **A Taylor operation method for solutions of generalized pantograph type delay differential equations**
YÜZBAŞI Ş., Ismailov N.
TURKISH JOURNAL OF MATHEMATICS, vol.42, no.2, pp.395-406, 2018 (SCI-Expanded)
46. **An operational matrix method for solving linear Fredholm Volterra integro-differential equations**
YÜZBAŞI Ş., Ismailov N.
TURKISH JOURNAL OF MATHEMATICS, vol.42, no.1, pp.243-256, 2018 (SCI-Expanded)

47. **An exponential method to solve linear Fredholm-Volterra integro-differential equations and residual improvement**
YÜZBAŞI Ş.
TURKISH JOURNAL OF MATHEMATICS, vol.42, no.5, pp.2546-2562, 2018 (SCI-Expanded)
48. **A Galerkin-like scheme to solve two-dimensional telegraph equation using collocation points in initial and boundary conditions**
YÜZBAŞI Ş., KARAÇAYIR M.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.74, no.12, pp.3242-3249, 2017 (SCI-Expanded)
49. **A numerical scheme for solutions of a class of nonlinear differential equations**
YÜZBAŞI Ş.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.11, no.6, pp.1165-1181, 2017 (SCI-Expanded)
50. **A numerical method for the solutions of the HIV infection model of CD4(+) T-cells**
YÜZBAŞI Ş., Ismailov N.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.10, no.7, 2017 (SCI-Expanded)
51. **A shifted Legendre method for solving a population model and delay linear Volterra integro-differential equations**
YÜZBAŞI Ş.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.10, no.7, 2017 (SCI-Expanded)
52. **Application of homotopy perturbation method to solve two models of delay differential equation systems**
YÜZBAŞI Ş., KARAÇAYIR M.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.10, no.6, 2017 (SCI-Expanded)
53. **A Laguerre Approach for the Solutions of Singular Perturbed Differential Equations**
YÜZBAŞI Ş.
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.14, no.4, 2017 (SCI-Expanded)
54. **A Galerkin-like approach to solve continuous population models for single and interacting species**
YÜZBAŞI Ş., KARAÇAYIR M.
KUWAIT JOURNAL OF SCIENCE, vol.44, no.2, pp.9-26, 2017 (SCI-Expanded)
55. **An exponential Galerkin method for solutions of HIV infection model of CD4+ T-cells**
YÜZBAŞI Ş., KARAÇAYIR M.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.67, pp.205-212, 2017 (SCI-Expanded)
56. **A Numerical Method for Solving Second-Order Linear Partial Differential Equations Under Dirichlet, Neumann and Robin Boundary Conditions**
YÜZBAŞI Ş.
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.14, no.2, 2017 (SCI-Expanded)
57. **Shifted Legendre method with residual error estimation for delay linear Fredholm integro-differential equations**
YÜZBAŞI Ş.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.11, no.2, pp.344-352, 2017 (SCI-Expanded)
58. **Numerical solutions of hyperbolic telegraph equation by using the Bessel functions of first kind and residual correction**
YÜZBAŞI Ş.
APPLIED MATHEMATICS AND COMPUTATION, vol.287, pp.83-93, 2016 (SCI-Expanded)
59. **An exponential collocation method for the solutions of the HIV infection model of CD4(+)T cells**
YÜZBAŞI Ş.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.9, no.3, 2016 (SCI-Expanded)
60. **Improved Bessel collocation method for linear Volterra integro-differential equations with piecewise intervals and application of a Volterra population model**
YÜZBAŞI Ş.
APPLIED MATHEMATICAL MODELLING, vol.40, no.9-10, pp.5349-5363, 2016 (SCI-Expanded)
61. **A Galerkin-like approach to solve high-order integro-differential equations with weakly singular**

kernel

YÜZBAŞI Ş., KARAÇAYIR M.

KUWAIT JOURNAL OF SCIENCE, vol.43, no.2, pp.106-120, 2016 (SCI-Expanded)

62. **An exponential approach for the system of nonlinear delay integro-differential equations describing biological species living together**

YÜZBAŞI Ş., SEZER M.

NEURAL COMPUTING & APPLICATIONS, vol.27, no.3, pp.769-779, 2016 (SCI-Expanded)

63. **A collocation method for numerical solutions of fractional-order logistic population model**

YÜZBAŞI Ş.

INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.9, no.2, 2016 (SCI-Expanded)

64. **A collocation method based on Bernstein polynomials to solve nonlinear Fredholm-Volterra integro-differential equations**

YÜZBAŞI Ş.

APPLIED MATHEMATICS AND COMPUTATION, vol.273, pp.142-154, 2016 (SCI-Expanded)

65. **A numerical method for solving systems of higher order linear functional differential equations**

YÜZBAŞI Ş., Gök E., SEZER M.

OPEN PHYSICS, vol.14, no.1, pp.15-25, 2016 (SCI-Expanded)

66. **Shifted Legendre approximation with the residual correction to solve pantograph-delay type differential equations**

YÜZBAŞI Ş., SEZER M.

APPLIED MATHEMATICAL MODELLING, vol.39, no.21, pp.6529-6542, 2015 (SCI-Expanded)

67. **A collocation method based on the Bessel functions of the first kind for singular perturbed differential equations and residual correction**

Yuzbasi S.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.38, no.14, pp.3033-3042, 2015 (SCI-Expanded)

68. **Numerical solutions of system of linear Fredholm-Volterra integro-differential equations by the Bessel collocation method and error estimation**

Yuzbasi S.

APPLIED MATHEMATICS AND COMPUTATION, vol.250, pp.320-338, 2015 (SCI-Expanded)

69. **Laguerre approach for solving pantograph-type Volterra integro-differential equations**

Yuzbasi S.

APPLIED MATHEMATICS AND COMPUTATION, vol.232, pp.1183-1199, 2014 (SCI-Expanded)

70. **Laguerre matrix method with the residual error estimation for solutions of a class of delay differential equations**

YÜZBAŞI Ş., Gök E., Sezer M.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.37, no.4, pp.453-463, 2014 (SCI-Expanded)

71. **An exponential approximation for solutions of generalized pantograph-delay differential equations**

YÜZBAŞI Ş., Sezer M.

APPLIED MATHEMATICAL MODELLING, vol.37, no.22, pp.9160-9173, 2013 (SCI-Expanded)

72. **Exponential Collocation Method for Solutions of Singularly Perturbed Delay Differential Equations**

YÜZBAŞI Ş., Sezer M.

ABSTRACT AND APPLIED ANALYSIS, vol.2013, 2013 (SCI-Expanded)

73. **Numerical solutions of singularly perturbed one-dimensional parabolic convection-diffusion problems by the Bessel collocation method**

YÜZBAŞI Ş., Sahin N.

APPLIED MATHEMATICS AND COMPUTATION, vol.220, pp.305-315, 2013 (SCI-Expanded)

74. **A collocation method to find solutions of linear complex differential equations in circular domains**

YÜZBAŞI Ş., Sezer M.

APPLIED MATHEMATICS AND COMPUTATION, vol.219, no.22, pp.10610-10626, 2013 (SCI-Expanded)

75. **A numerical approximation for Volterra's population growth model with fractional order**

YÜZBAŞI Ş.

- APPLIED MATHEMATICAL MODELLING, vol.37, no.5, pp.3216-3227, 2013 (SCI-Expanded)
76. **An improved Bessel collocation method with a residual error function to solve a class of Lane-Emden differential equations**
YÜZBAŞI Ş., Sezer M.
MATHEMATICAL AND COMPUTER MODELLING, vol.57, no.5-6, pp.1298-1311, 2013 (SCI-Expanded)
 77. **Numerical solution of the Bagley-Torvik equation by the Bessel collocation method**
YÜZBAŞI Ş.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.36, no.3, pp.300-312, 2013 (SCI-Expanded)
 78. **An exponential matrix method for solving systems of linear differential equations**
YÜZBAŞI Ş., Sezer A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.36, no.3, pp.336-348, 2013 (SCI-Expanded)
 79. **Numerical solutions of integro-differential equations and application of a population model with an improved Legendre method**
YÜZBAŞI Ş., Sezer M., Kemancı B.
APPLIED MATHEMATICAL MODELLING, vol.37, no.4, pp.2086-2101, 2013 (SCI-Expanded)
 80. **Numerical solutions of fractional Riccati type differential equations by means of the Bernstein polynomials**
Yuzbasi S.
APPLIED MATHEMATICS AND COMPUTATION, vol.219, no.11, pp.6328-6343, 2013 (SCI-Expanded)
 81. **A numerical approach to solve the model for HIV infection of CD4(+)T cells**
YÜZBAŞI Ş.
APPLIED MATHEMATICAL MODELLING, vol.36, no.12, pp.5876-5890, 2012 (SCI-Expanded)
 82. **A numerical approximation based on the Bessel functions of first kind for solutions of Riccati type differential-difference equations**
YÜZBAŞI Ş.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.64, no.6, pp.1691-1705, 2012 (SCI-Expanded)
 83. **An efficient algorithm for solving multi-pantograph equation systems**
YÜZBAŞI Ş.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.64, no.4, pp.589-603, 2012 (SCI-Expanded)
 84. **Bessel collocation approach for solving continuous population models for single and interacting species**
YÜZBAŞI Ş.
APPLIED MATHEMATICAL MODELLING, vol.36, no.8, pp.3787-3802, 2012 (SCI-Expanded)
 85. **A Bessel collocation method for numerical solution of generalized pantograph equations**
YÜZBAŞI Ş., Şahin N., Sezer M.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.28, no.4, pp.1105-1123, 2012 (SCI-Expanded)
 86. **A collocation approach for solving linear complex differential equations in rectangular domains**
YÜZBAŞI Ş., Şahin N., Sezer M.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.35, no.10, pp.1126-1139, 2012 (SCI-Expanded)
 87. **On the solutions of a system of linear retarded and advanced differential equations by the Bessel collocation approximation**
YÜZBAŞI Ş.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.63, no.10, pp.1442-1455, 2012 (SCI-Expanded)
 88. **A numerical scheme for solutions of the Chen system**
YÜZBAŞI Ş.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.35, no.8, pp.885-893, 2012 (SCI-Expanded)
 89. **On the solutions of a class of nonlinear ordinary differential equations by the Bessel polynomials**
YÜZBAŞI Ş., Şahin N.
JOURNAL OF NUMERICAL MATHEMATICS, vol.20, no.1, pp.55-80, 2012 (SCI-Expanded)
 90. **A numerical method to solve a class of linear integro-differential equations with weakly singular**

kernel

YÜZBAŞI Ş., Sezer M.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.35, no.6, pp.621-632, 2012 (SCI-Expanded)

91. **A collocation approach to solving the model of pollution for a system of lakes**
YÜZBAŞI Ş., Sahin N., Sezer M.
MATHEMATICAL AND COMPUTER MODELLING, vol.55, no.3-4, pp.330-341, 2012 (SCI-Expanded)
92. **A collocation approach for solving high-order linear Fredholm-Volterra integro-differential equations**
YÜZBAŞI Ş., Sahin N., YILDIRIM A.
MATHEMATICAL AND COMPUTER MODELLING, vol.55, no.3-4, pp.547-563, 2012 (SCI-Expanded)
93. **A collocation approach to solve the Riccati-type differential equation systems**
YÜZBAŞI Ş.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.89, no.16, pp.2180-2197, 2012 (SCI-Expanded)
94. **A numerical approach for solving a class of the nonlinear Lane-Emden type equations arising in astrophysics**
YÜZBAŞI Ş.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.34, no.18, pp.2218-2230, 2011 (SCI-Expanded)
95. **A collocation approach for solving a class of complex differential equations in elliptic domains**
YÜZBAŞI Ş., Sahin N., Gulsu M.
JOURNAL OF NUMERICAL MATHEMATICS, vol.19, no.3, pp.225-246, 2011 (SCI-Expanded)
96. **A numerical approach for solving the high-order linear singular differential-difference equations**
Yuezbasi S.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.62, no.5, pp.2289-2303, 2011 (SCI-Expanded)
97. **Bessel polynomial solutions of high-order linear Volterra integro-differential equations**
YÜZBAŞI Ş., ŞAHİN N., Sezer M.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.62, no.4, pp.1940-1956, 2011 (SCI-Expanded)
98. **Numerical Solutions of Systems of High-Order Linear Differential-Difference Equations with Bessel Polynomial Bases**
YÜZBAŞI Ş., Sahin N., YILDIRIM A.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.66, no.8-9, pp.519-532, 2011 (SCI-Expanded)
99. **A collocation approach for solving systems of linear Volterra integral equations with variable coefficients**
ŞAHİN N., YÜZBAŞI Ş., Gulsu M.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.62, no.2, pp.755-769, 2011 (SCI-Expanded)
100. **Numerical solutions of systems of linear Fredholm integro-differential equations with Bessel polynomial bases**
YÜZBAŞI Ş., ŞAHİN N., Sezer M.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.61, no.10, pp.3079-3096, 2011 (SCI-Expanded)
101. **A Bessel polynomial approach for solving general linear Fredholm integro-differential-difference equations**
Sahin N., YÜZBAŞI Ş., Sezer M.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.88, no.14, pp.3093-3111, 2011 (SCI-Expanded)

Articles Published in Other Journals

1. **Solving high-order nonlinear differential equations using operational matrix based on exponential collocation method**
Aslefallah M., Abbasbandy S., YÜZBAŞI Ş.
Sigma Journal of Engineering and Natural Sciences, vol.41, no.4, pp.689-698, 2023 (ESCI)

2. **Spectral collocation method based on special functions for solving nonlinear high-order pantograph equations**
Thirumalai S., Seshadri R., Yüzbaşı Ş.
COMPUTATIONAL METHODS FOR DIFFERENTIAL EQUATIONS, vol.3, no.1, 2023 (ESCI)
3. **Pell-Lucas Collocation Method to Solve Second-Order Nonlinear Lane-Emden Type Pantograph Differential Equations**
YÜZBAŞI Ş., YILDIRIM G.
Fundamentals of Contemporary Mathematical Sciences, vol.3, 2022 (Peer-Reviewed Journal)
4. **A Computational Algorithm for Solution of Population Models for Single and Interacting Species**
Amin R., Yüzbaşı Ş., Syam M.
International Journal of Applied and Computational Mathematics, vol.7, no.186, 2021 (Scopus)
5. **A Laguerre approach for solving of the systems of linear differential equations and residual improvement**
YÜZBAŞI Ş., YILDIRIM G.
COMPUTATIONAL METHODS FOR DIFFERENTIAL EQUATIONS, vol.9, no.2, pp.553-576, 2021 (ESCI)
6. **A GALERKIN-LIKE SCHEME TO DETERMINE CURVES OF CONSTANT BREADTH IN EUCLIDEAN 3-SPACE**
Yuzbasi S., Karacayir M.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.11, no.3, pp.646-658, 2021 (ESCI)
7. **ON SOLUTIONS OF LINEAR FUNCTIONAL INTEGRAL AND INTEGRO-DIFFERENTIAL EQUATIONS VIA LAGRANGE POLYNOMIALS**
YÜZBAŞI Ş., SEZER M.
Journal of Science and Arts, vol.21, 2021 (ESCI)
8. **A GALERKIN-TYPE METHOD FOR SOLUTIONS OF PANTOGRAPH-TYPE VOLTERRA-FREDHOLM INTEGRO-DIFFERENTIAL EQUATIONS WITH FUNCTIONAL UPPER LIMIT**
YÜZBAŞI Ş., KARAÇAYIR M.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.2, pp.995-1005, 2020 (ESCI)
9. **Algorithm for the Numerical Solutions of Volterra Population Growth Model with Fractional Order via Haar Wavelet**
Amin R., YÜZBAŞI Ş., Gao L., Asif M., Khan I.
Contemporary Mathematics, vol.1, no.2, pp.54-111, 2020 (Peer-Reviewed Journal)
10. **A MUNTZ-LEGENDRE APPROACH TO OBTAIN SOLUTIONS OF SINGULAR PERTURBED PROBLEMS**
YÜZBAŞI Ş., Gök E., Sezer M.
JOURNAL OF SCIENCE AND ARTS, no.3, pp.537-544, 2020 (ESCI)
11. **HERMITE POLYNOMIAL APPROACH FOR SOLVING SINGULAR PERTURBATED DELAY DIFFERENTIAL EQUATIONS**
YÜZBAŞI Ş., Savasaneril N. B.
JOURNAL OF SCIENCE AND ARTS, no.4, pp.845-854, 2020 (ESCI)
12. **Bessel collocation approach for solving one-dimensional wave equation with Dirichlet, Neumann boundary and integral conditions**
YÜZBAŞI Ş.
Research and Communications in Mathematics and Mathematical Sciences, vol.11, no.1, pp.63-87, 2019 (Peer-Reviewed Journal)
13. **Laguerre Collocation Method for Solutions of The Systems of First Order Linear Differential Equations**
YÜZBAŞI Ş., Yıldırım G.
Turkish Journal of Mathematics and Computer Science, vol.10, pp.222-241, 2018 (Peer-Reviewed Journal)
14. **A numerical scheme to solve boundary value problems involving singular perturbation**
YÜZBAŞI Ş., KARAÇAYIR M.
EUROPEAN JOURNAL OF COMPUTATIONAL MECHANICS, vol.27, no.2, pp.109-122, 2018 (ESCI)
15. **Bessel collocation approach for approximate solutions of Hantavirus infection model**

YÜZBAŞI Ş.

New Trends in Mathematical Sciences, vol.5, no.4, pp.89-96, 2017 (Peer-Reviewed Journal)

16. **Differential transform method to solve two-dimensional Volterra integral equations with proportional delays**
YÜZBAŞI Ş., İsmailov N.
New Trends in Mathematical Sciences, vol.5, no.4, pp.65-71, 2017 (Peer-Reviewed Journal)
17. **A Galerkin-like scheme to solve Riccati equations encountered in quantum physics**
YÜZBAŞI Ş., KARAÇAYIR M.
Journal of Physics: Conference Series, vol.766, 2016 (Scopus)
18. **Müntz-Legendre matrix method for the approximate solution of differential-difference equations with constant coefficient**
Çevikel S., YÜZBAŞI Ş., Gök E.
Karaelmas Science and Engineering Journal, vol.5, no.1, pp.45-51, 2015 (Peer-Reviewed Journal)
19. **Residual correction of the Hermite polynomial solutions of the generalized pantograph equations**
YÜZBAŞI Ş., Gök E., Sezer M.
New Trends in Mathematical Sciences, vol.3, no.2, pp.118-125, 2015 (Peer-Reviewed Journal)
20. **Approximate solutions of the hyperchaotic Rössler system by using the Bessel collocation scheme**
YÜZBAŞI Ş.
New Trends in Mathematical Sciences, vol.3, no.2, pp.70-78, 2015 (Peer-Reviewed Journal)
21. **Müntz-Legendre matrix method to solve the delay fredholm integro-differential equations with constant coefficients**
YÜZBAŞI Ş., Gök E., Sezer M.
New Trends in Mathematical Sciences, vol.3, no.2, pp.159-167, 2015 (Peer-Reviewed Journal)
22. **Solving Systems of Volterra Integral and Integrodifferential Equations with Proportional Delays by Differential Transformation Method**
YÜZBAŞI Ş., İsmailov N.
Journal of Mathematics, vol.2014, 2014 (Scopus)
23. **Müntz-Legendre polynomial solutions of linear delay Fredholm integro-differential equations and residual corrections**
YÜZBAŞI Ş., Gök E., Sezer M.
MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, vol.18, no.3, pp.476-485, 2013 (Peer-Reviewed Journal)
24. **An exponential matrix method for numerical solutions of Hantavirus infection model**
YÜZBAŞI Ş., Sezer M.
APPLICATIONS AND APPLIED MATHEMATICS-AN INTERNATIONAL JOURNAL, vol.8, no.1, pp.99-115, 2013 (ESCI)
25. **A Chebyshev Method for a class of high-order linear Fredholm integro-differential equations**
Yüksel G., YÜZBAŞI Ş., Sezer M.
Journal Advanced Research in Applied Mathematics, vol.4, no.1, pp.49-67, 2012 (Peer-Reviewed Journal)
26. **Numerical solution of a class of Lane-Emden type differential-difference equations**
YÜZBAŞI Ş., Şahin N.
Journal of Advanced Research in Scientific Computing, vol.3, no.3, pp.14-29, 2011 (Peer-Reviewed Journal)
27. **A numerical approach for solving linear differential equation systems**
YÜZBAŞI Ş., Şahin N., Sezer M.
Journal Advanced Research in Differential Equations, vol.3, no.3, pp.8-32, 2011 (Peer-Reviewed Journal)
28. **Bessel collocation method for solving high-order linear Fredholm integro-differential-difference equations**
YÜZBAŞI Ş., Şahin N., Sezer M.
Journal Advanced Research in Differential Equations, vol.3, no.2, pp.1-23, 2011 (Peer-Reviewed Journal)
29. **Bessel matrix method for solving high-order linear Fredholm integro-differential equations**
YÜZBAŞI Ş., Şahin N., Sezer M.
Journal Advanced Research in Applied Mathematics, vol.3, no.2, pp.23-47, 2011 (Peer-Reviewed Journal)
30. **A collocation approach to solve a class of Lane-Emden type equations**

YÜZBAŞI Ş., Sezer M.

Journal Advanced Research in Applied Mathematics, vol.3, no.2, pp.58-73, 2011 (Peer-Reviewed Journal)

31. **A Bessel polynomial approach for solving linear neutral delay differential equations with variable coefficients**

YÜZBAŞI Ş., Şahin N., Sezer M.

Journal Advanced Research in Differential Equations, vol.3, no.1, pp.81-101, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **An operational method based on the first type shifted Chebyshev polynomials for linear delay differential equations with variable coefficients**
Yüzbaşı Ş., Yıldırım G.
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.2434-2438
2. **An operational matrix method for approximate solutions of mass-spring system with two freedom degree**
Yüzbaşı Ş., Yıldırım G.
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.2439-2443
3. **Applications of Pell-Lucas collocation method for Bratu-type problem with boundary conditions**
Yüzbaşı Ş., Yıldırım G.
1st International Conference on Engineering and Applied Natural Sciences, Konya, Turkey, 10 - 13 May 2022, pp.2426-2433
4. **A NUMERICAL APPROACH TO LANE-EMDEN TYPE FUNCTIONAL DIFFERENTIAL EQUATIONS WITH THE HELP OF AN OPERATIONAL MATRIX METHOD**
Yıldırım G., Yüzbaşı Ş.
13th International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE), Antalya, Turkey, 26 - 29 May 2021, pp.347-357
5. **PELL-LUCAS COLLOCATION METHOD FOR THE APPROXIMATE SOLUTIONS OF THE SINGULAR TWO-POINT BOUNDARY VALUE PROBLEMS (BVPs)**
Yüzbaşı Ş., Yıldırım G.
13th International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE), Antalya, Turkey, 26 - 29 May 2021, pp.358-368
6. **APPROXIMATE SOLUTIONS OF SINGULAR PERTURBATED DELAY DIFFERENTIAL EQUATIONS WITH THE HELP OF THE LEGENDRE COLLOCATION METHOD**
Yüzbaşı Ş., Yıldırım G.
2. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 20 May 2021, pp.24-36
7. **APPROXIMATE SOLUTIONS OF THE NONLINEAR LANE-EMDEN DIFFERENTIAL EQUATIONS USING AN OPERATIONAL MATRIX METHOD**
Yıldırım G., Yüzbaşı Ş.
2. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 20 May 2021, pp.37-47
8. **AN OPERATIONAL MATRIX METHOD FOR THE APPROXIMATE SOLUTIONS OF THE VISCOUSLY DAMPED SINGLE DEGREE OF FREEDOM SYSTEM SUBJECTED TO HARMONIC EXCITATION**
Yüzbaşı Ş., Yıldırım G.
2. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 20 May 2021, pp.48-58
9. **THE APPROXIMATE SOLUTIONS OF THE FREEDOM VIBRATION EQUATIONS OF THE MASS-SPRING SYSTEM WITH TWO FREEDOM DEGREE: PELL-LUCAS MATRIX METHOD**
Yıldırım G., Yüzbaşı Ş.
2. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 20 May 2021, pp.59-73
10. **APPROXIMATE SOLUTIONS OF THE LANE-EMDEN TYPE DIFFERENTIAL-DIFFERENCE EQUATIONS BY**

USING FERMAT POLYNOMIALS

Yüzbaşı Ş., Yıldırım G.

2. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 20 May 2021, pp.74-85

11. **A COLLOCATION METHOD FOR THE APPROXIMATE SOLUTION OF LINEAR NEUTRAL DELAYED DIFFERENTIAL EQUATIONS WITH VARIABLE COEFFICIENT**

Yildirim G., Yüzbaşı Ş.

AL-FARABI INTERNATIONAL CONGRESS ON APPLIED SCIENCES-II, Nakhchivan, Azerbaijan, 2 - 04 May 2021, pp.150-159

12. **AN OPERATIONAL MATRIX METHOD FOR NUMERICAL SOLUTIONS OF SINGULARLY PERTURBATED DIFFERENTIAL EQUATIONS**

Yüzbaşı Ş., Yıldırım G.

AL-FARABI INTERNATIONAL CONGRESS ON APPLIED SCIENCES - II, Nakhchivan, Azerbaijan, 2 - 04 May 2021, pp.139-149

13. **APPROXIMATE SOLUTIONS OF SINGULAR PERTURBATED DELAY DIFFERENTIAL EQUATIONS WITH THE HELP OF THE BERNSTEIN COLLOCATION METHOD**

Yüzbaşı Ş., Yıldırım G.

AL-FARABI INTERNATIONAL CONGRESS ON APPLIED SCIENCES-II, Nakhchivan, Azerbaijan, 2 - 04 May 2021, pp.160-169

14. **NUMERICAL SOLUTIONS OF THE LINEAR LANE-EMDEN DIFFERENTIAL EQUATIONS BY USING THE MORGAN-VOYCE FUNCTIONS AND RESIDUAL CORRECTIONS**

YILDIRIM G., YÜZBAŞI Ş.

1.INTERNATIONAL CONGRESSON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 09 December 2020, pp.17-31

15. **AN OPERATIONAL MATRIX METHOD FOR THE SYSTEMS OF HIGHER-ORDER LINEAR FREDHOLM INTEGRO-DIFFERENTIAL EQUATIONS BY USING THE PELLUCAS FUNCTIONS**

YÜZBAŞI Ş., YILDIRIM G.

1.INTERNATIONAL CONGRESSON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 09 December 2020, pp.32-46

16. **Pell-Lucas collocation method and residual error estimation for the Lane–Emden differential equations**

YÜZBAŞI Ş., YILDIRIM G.

TURK-COSE 2020, Nur-Sultan, Kazakhstan, 14 - 15 November 2020, pp.137-149

17. **An operational matrix method based on Chebyshev polynomials for approximate solutions of systems of higher order linear Fredholm integro-differential equations**

YÜZBAŞI Ş., YILDIRIM G.

TURK-COSE 2020, Nur-Sultan, Kazakhstan, 14 - 15 November 2020, pp.54-67

18. **Exponential collocation method to solve systems of multi-pantograph equations**

YÜZBAŞI Ş.

International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2733-2744

19. **Laguerre collocation method for solving first-order linear differential equation with variable delays**

YÜZBAŞI Ş.

International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.2720-2732

20. **BESSEL COLLOCATION METHOD FOR SOLVING FIRST ORDER DIFFERENTIAL EQUATIONS WITH VARIABLE DELAYS**

YÜZBAŞI Ş., Yıldırım G.

5 th International Congress on Multidisciplinary Studies, Antalya, Turkey, 2 - 03 November 2018, vol.1, pp.110-129

21. **HERMITE POLYNOMIAL APPROACH FOR SOLVING MODEL OF THE POLLUTION OF A SYSTEM OF LAKES**

YÜZBAŞI Ş.

5 th International Congress on Multidisciplinary Studies, Antalya, Turkey, 2 - 03 November 2018, vol.1, pp.130-146

22. **Laguerre Collocation Method for Solving Volterra's Population Model**

YÜZBAŞI Ş.

Türk Akademik Araştırmalar Dergisi Uluslararası Multidisipliner Kongresi (TARRC), Antalya, Turkey, 12 - 14 October 2018, pp.159-160

23. **Bessel Collocation Approach For Solving Second Order Linear Partial Differential Equations Under Initial And Boundary Conditions**
YÜZBAŞI Ş.
Türk Akademik Araştırmalar Dergisi Uluslararası Multidisipliner Kongresi (TARRC), Antalya, Turkey, 12 - 14 October 2018, pp.161-162
24. **Laguerre Polynomial Solutions Of Systems Of Multi-Pantograph Equations**
YÜZBAŞI Ş., Yıldırım G.
Türk Akademik Araştırmalar Dergisi Uluslararası Multidisipliner Kongresi (TARRC), Antalya, Turkey, 12 - 14 October 2018, pp.163-164
25. **Numerical Solutions of One-Dimensional Convection-Diffusion Equation by a Galerkin-Like Method Using Polynomial Basis**
YÜZBAŞI Ş., KARAÇAYIR M.
International Conference of Mathematics, İstanbul, Turkey, 3 - 06 July 2018, pp.246
26. **Numerical Solutions of Lotka-Volterra Equations by a Weighted Residual Scheme Using the Method of Least Squares**
YÜZBAŞI Ş., KARAÇAYIR M.
International Conference on Mathematics (ICOM), İstanbul, Turkey, 3 - 06 July 2018, pp.245
27. **Laguerre Collocation Method for Solutions of Systems of Linear Differential equations**
YÜZBAŞI Ş., YILDIRIM G.
International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.311-312
28. **Numerical solution of initial value problems by a Galerkin-like method using multiple intervals**
YÜZBAŞI Ş., KARAÇAYIR M.
2nd International Conference on Advances in Science, İstanbul, Turkey, 13 - 15 September 2017, pp.282
29. **Bessel collocation method to determinate the curves of constant breadth according to Bishop Frame in Euclidean 3-space**
YÜZBAŞI Ş., Yıldırım G.
15th International Geometry Symposium, Amasya, Turkey, 03 July 2017, pp.86
30. **Determination of the curves of constant breadth in Galilean 3-space by Laguerre collocation method**
YÜZBAŞI Ş., Sezer E.
15th International Geometry Symposium, Amasya, Turkey, 03 July 2017, pp.212
31. **Application of Galerkin-like method to Lotka-Volterra Predator-prey model**
YÜZBAŞI Ş., KARAÇAYIR M.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 03 July 2017, pp.105
32. **A Numerical Approach to Obtain Approximate Solutions of Volterra's Population Model with Single Species**
YÜZBAŞI Ş., KARAÇAYIR M.
2nd International Symposium on Multidisciplinary Sciences, Roma, Italy, 18 - 21 May 2017, pp.121
33. **An operational matrix approach for solutions of multi-pantograph equations**
YÜZBAŞI Ş., KARAÇAYIR M., Ismailov N.
2nd International Symposium on Multidisciplinary Studies, Roma, Italy, 18 - 21 May 2017, pp.120
34. **Approximate Solutions of Singularly Perturbed Differential Equations by a Numerical Scheme Based on Inner Product**
KARAÇAYIR M., YÜZBAŞI Ş.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.82
35. **A Numerical Scheme to Obtain Approximate Solutions of Two-dimensional Telegraph Equation**
YÜZBAŞI Ş., KARAÇAYIR M.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.63

36. **A Galerkin-like method to obtain approximate solutions of an epidemiological computer virus model**
KARAÇAYIR M., YÜZBAŞI Ş.
International Conference on Applied Mathematics and Analysis(ICAMA2016), Ankara, Turkey, 11 - 13 July 2016, pp.54
37. **A Laguerre method to determinate the curves of constant breadth according to Bishop Frame in Euclidean 3-space**
YÜZBAŞI Ş., Sezer M., Sezer E.
14th Uluslararası Geometri Sempozyumu, Denizli, Turkey, 25 - 28 May 2016, pp.187
38. **A Müntz-Legendre approach to obtain solutions of singular perturbed problems**
YÜZBAŞI Ş., Sezer M., Gök E.
International Conference on Quantum Science and Applications (ICQSA-2016), Eskişehir, Turkey, 25 - 27 May 2016, pp.97
39. **Exponential solutions of a class of Lane-Emden equations arising in astrophysics**
YÜZBAŞI Ş.
International Conference on Quantum Science and Applications (ICQSA-2016), Eskişehir, Turkey, 25 - 27 May 2016, pp.91
40. **Determination of the curves of constant breadth according to Bishop Frame in Euclidean 3-space by a Galerkin-like method**
YÜZBAŞI Ş., KARAÇAYIR M., Sezer M.
14th Uluslararası Geometri Sempozyumu, Denizli, Turkey, 25 - 28 May 2016, pp.186
41. **A Galerkin-like scheme to solve Riccati equations encountered in quantum physics**
YÜZBAŞI Ş., Karacayir M.
International Conference on Quantum Science and Applications (ICQSA), Eskişehir, Turkey, 25 - 27 May 2016, vol.766
42. **A müntz-legendre method for solving systems of first order linear functional differential equations**
Gök E., YÜZBAŞI Ş., Sezer M.
International Conference on Advancements in Mathematical Sciences (AMS), Antalya, Turkey, 5 - 07 November 2015, pp.110
43. **A Numerical Method to Obtain Approximate Solutions of a Model on HIV Infection of CD4+ T-cells**
KARAÇAYIR M., YÜZBAŞI Ş.
International Conference On Advancements in Mathematical Sciences, Antalya, Turkey, 5 - 07 November 2015, pp.137
44. **An operation matrix method for solving systems of higher-order linear differential equations with variable coefficients**
İsmailov N., YÜZBAŞI Ş.
International Conference on Advancements in Mathematical Sciences (AMS), Antalya, Turkey, 5 - 07 November 2015, pp.127
45. **Oransal Gecikmeli Birinci Mertebeden Diferansiyel Denklem Sistemlerinin Yaklaşık Çözümleri İçin Müntz-Legendre Polinom Yöntemi**
YÜZBAŞI Ş., Gök E., Sezer M.
28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.187
46. **Bir Boyutlu Hiperbolik Telegraf Denkleminin Çözümleri İçin Bessel Kollokasyon Yöntemi**
YÜZBAŞI Ş.
28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.201
47. **Lotka-Volterra Nüfus Modelinin Galerkin Tipi Bir Yöntemle Yaklaşık Çözülmesi**
YÜZBAŞI Ş., KARAÇAYIR M.
28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.202
48. **Birinci Mertebeden Lineer Fredholm Integro-Diferansiyel Denklemler İçin Bir Nümerik Yöntem**
YÜZBAŞI Ş., İsmailov N.
28. Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.203
49. **Multi-pantograph denklem sistemlerinin yaklaşık çözümleri için Müntz-Legendre polinom yöntemi**

YÜZBAŞI Ş., Gök E., Sezer M.

13. Matematik Sempozyumu, Karabük, Turkey, 12 - 13 June 2014, pp.152

50. **Application of the homotopy perturbation method for solving delay HIV infection model of CD4+ T-cells**
YÜZBAŞI Ş., KARAÇAYIR M.
Karatekin Mathematics Days, Çankırı, Turkey, 11 - 13 June 2014, pp.102
51. **Müntz-Legendre matrix method to solve the delay Fredholm differential equations with the constant coefficients**
YÜZBAŞI Ş., Gök E., Sezer M.
4th International Conference of Matrix Analysis and Applications, Konya, Turkey, 1 - 04 July 2013, vol.18, pp.33-34
52. **Müntz-Legendre polynomial solutions of linear delay Fredholm integro-differential equations and residual corrections**
YÜZBAŞI Ş., Gök E., Sezer M.
4th International Conference on Mathematical and Computational Applications, Manisa, Turkey, 1 - 04 June 2013, vol.18, pp.476-485
53. **Müntz-Legendre polynomial solutions of the model of pollution for a system of lakes**
YÜZBAŞI Ş., Gök E., Sezer M.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 1 - 04 June 2013, pp.140-141
54. **Yüksek mertebe değişken katsayılı diferansiyel denklem sistemlerinin Müntz-Legendre Polinom çözümleri ve Rezidüel Düzeltme**
YÜZBAŞI Ş., Gök E., Sezer M.
8. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 1 - 04 June 2013, pp.39
55. **Sabit katsayılı diferansiyel-fark denklemlerini çözmek için Müntz-Legendre matris yöntemi**
YÜZBAŞI Ş., Gök E., ÇEVİKEL S.
8. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 1 - 04 June 2013, pp.28
56. **A Shifted Legendre approach with residual error estimation for delay linear Fredholm integro-differential equations**
YÜZBAŞI Ş., Şahin N., Sezer M.
The 2nd International Conference on Computation for Science and Technology, Niğde, Turkey, 1 - 04 July 2012, pp.104
57. **Residual correction of the Hermite polynomial solutions of the generalized pantograph equations**
Gök E., YÜZBAŞI Ş., Sezer M.
The 2nd International Conference on Computation for Science and Technology, Niğde, Turkey, 1 - 04 July 2012, pp.120
58. **Genelleştirilmiş Pantograph Denklemlerin Sisteminin Çözümleri için Bessel Collocation (Sıralama) Metodu**
YÜZBAŞI Ş.
7. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 1 - 04 June 2012, pp.91-92
59. **Lineer neutral gecikmeli diferansiyel denklemler için Hermite polinom yaklaşımı ve rezidüel iyileştirme**
Gök E., YÜZBAŞI Ş., Sezer M.
7. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 1 - 04 June 2012, pp.87-88
60. **Laguerre series solutions of a class of delay differential equations with the residual error estimation**
YÜZBAŞI Ş., Gök E., Sezer M.
International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 1 - 04 June 2012, pp.77-78
61. **Lojistik Popülasyon Modelinin Nümerik Çözümü**
YÜZBAŞI Ş., Şahin N.
10. Matematik Sempozyumu, İstanbul, Turkey, 1 - 04 September 2011
62. **Multi-Pantograph Denklemlerin Çözümleri İçin Bir Nümerik Metot**

YÜZBAŞI Ş.

XXIV. Ulusal Matematik Sempozyumu, Bursa, Turkey, 1 - 04 September 2011, pp.135

63. **Bessel collocation method for solving a class of the nonlinear pantograph equations**

YÜZBAŞI Ş., Sezer M., Şahin N.

International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 1 - 04 July 2011, pp.330-331

64. **A collocation method for solving system of linear Fredholm-Volterra integral equations with variable coefficients**

YÜZBAŞI Ş., Şahin N., Sezer M.

2nd International Symposium on Computing in Science and Engineering, Aydın, Turkey, 1 - 04 June 2011, pp.1097-1105

65. **Parçalı aralıklı Volterra integro diferansiyel denklemleri çözmek için Bessel Collocation Metodu**

YÜZBAŞI Ş.

6. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 1 - 04 June 2011, pp.144-145

66. **Yüksek mertebeden lineer diferansiyel-fark denklemlerinin nümerik çözümü için bir Bessel matris yöntemi**

YÜZBAŞI Ş.

XXIII. Ulusal Matematik Sempozyumu, Kayseri, Turkey, 1 - 04 August 2010, pp.188

67. **Lineer olmayan diferansiyel denklemlerin nümerik çözümü için bir Bessel matris yöntemi**

YÜZBAŞI Ş., Şahin N.

5. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 1 - 04 June 2010, pp.170

Academic and Administrative Experience

	Scholarship and Social	
2019 - Continues	Services Board Membership	Akdeniz University, Faculty of Science, Department of Mathematics
2018 - Continues	Department Advisory Board Member	Akdeniz University, Faculty of Science, Department of Mathematics
2018 - Continues	Bologna Coordinator of Department of Mathematics	Akdeniz University, Faculty of Science, Department of Mathematics
2016 - Continues	Research and Development Advisory Board Membership	Akdeniz University, Faculty of Science, Department of Mathematics
2016 - Continues	Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi	Akdeniz University, Faculty of Science, Department of Mathematics
2013 - 2016	Scholarship and Social Services Board Membership	Akdeniz University, Faculty of Science, Department of Mathematics

Courses

Bitirme Çalışması II (ikinci öğretim), Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

Sayısal Analiz, Undergraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013

Uzmanlık Alan Dersi, Doctorate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Nümerik Analiz II , Postgraduate, 2015 - 2016, 2014 - 2015
Uygulamalı Matematik II (ikinci öğretim), Undergraduate, 2015 - 2016, 2014 - 2015
Diferansiyel Denklemler, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Bitirme Çalışması II , Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014
Danışmanlık, Doctorate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Uygulamalı Matematik I (ikinci öğretim), Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Uygulamalı Matematik II , Undergraduate, 2015 - 2016, 2014 - 2015
Diferansiyel Denklemler I, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014
Bitirme Çalışması I (ikinci öğretim), Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
Nümerik Analiz I , Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Uygulamalı Matematik I , Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Diferansiyel Denklemler , Undergraduate, 2016 - 2017
Danışmanlık, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Uygulamalı Matematik II , Postgraduate, 2014 - 2015
İşletme Matematiği (Şube 2), Undergraduate, 2014 - 2015, 2013 - 2014
İşletme Matematiği (Şube 3), Undergraduate, 2014 - 2015, 2013 - 2014
İşletme Matematiği (şube 1), Undergraduate, 2014 - 2015, 2013 - 2014
Analiz II, Undergraduate, 2014 - 2015
İşletme Matematiği (Şube 5), Undergraduate, 2014 - 2015, 2013 - 2014
Uygulamalı Matematik I , Postgraduate, 2014 - 2015
Bilimsel Hesaplamaya Giriş II (ikinci öğretim), Undergraduate, 2013 - 2014
Matematik (Şube 1), Undergraduate, 2014 - 2015, 2013 - 2014
Seminer, Doctorate, 2013 - 2014
İşletme Matematiği (Şube 4), Undergraduate, 2014 - 2015, 2013 - 2014
Matematik (Şube 2), Undergraduate, 2014 - 2015, 2013 - 2014
Matematik (Şube 3), Undergraduate, 2014 - 2015, 2013 - 2014
Diferansiyel Denklemler , Undergraduate, 2014 - 2015
Bilimsel Hesaplamaya Giriş II , Undergraduate, 2013 - 2014
Matematik (Şube 4), Undergraduate, 2014 - 2015, 2013 - 2014
Diferansiyel Denklemler, Undergraduate, 2012 - 2013
Lineer Cebir, Undergraduate, 2012 - 2013
Matematik 2, Undergraduate, 2012 - 2013
Adi Diferansiyel Denklemlerin Nümerik Çözümleri, Doctorate, 2013 - 2014
Diferansiyel Denklemler, Undergraduate, 2013 - 2014
Bitirme Çalışması 1, Undergraduate, 2013 - 2014
Genel Matematik 2, Undergraduate, 2012 - 2013
Uygulamalı Matematik (ikinci öğretim), Undergraduate, 2013 - 2014
Uygulamalı Matematik, Undergraduate, 2013 - 2014
Hipergeometrik Serilerde Seçme Konular, Doctorate, 2012 - 2013
Matematik, Undergraduate, 2013 - 2014
Adi Diferansiyel Denklemlerin Nümerik Çözümleri, Doctorate, 2013 - 2014
Kısmi Türevli Diferansiyel Denklemler, Doctorate, 2013 - 2014
Lineer Cebir, Undergraduate, 2012 - 2013
Analiz 2, Undergraduate, 2012 - 2013
Analiz 1, Undergraduate, 2012 - 2013

Advising Theses

YÜZBAŞI Ş., CD4+T Hücrelerinin HIV Enfeksiyonu Modellerinin Yaklaşık Çözümleri İçin Lucas Kollokasyon Yöntemi,

Postgraduate, A.Kurt(Student), 2021

YÜZBAŞI Ş., Kesirli Mertebeden Lineer Diferansiyel Denklem Ve Sistemlerinin Çözümleri İçin Lucas Kollokasyon Yöntemi, Postgraduate, G.GÖK(Student), 2021

YÜZBAŞI Ş., Diferansiyel, Fonksiyonel Diferansiyel ve İntegro-diferansiyel Denklemler ve Sistemleri için Galerkin-tipi bir Sayısal Yöntem, Doctorate, M.KARAÇAYIR(Student), 2018

YÜZBAŞI Ş., Lineer Diferansiyel Denklem Sistemlerinin Çözümleri İçin Laguerre Kollokasyon Yöntemi, Postgraduate, G.YILDIRIM(Student), 2018

YÜZBAŞI Ş., Dikdörtgensel bölgede lineer kompleks diferansiyel denklemlerin çözümleri için laguerre kollokasyon yöntemi, Postgraduate, H.Nur(Student), 2017

YÜZBAŞI Ş., Gecikmeli diferansiyel denklem sistemlerinin yaklaşık çözümleri için Müntz-Legendre sıralama yöntemi, Doctorate, E.GÖK(Student), 2016

Activities in Scientific Journals

Symmetry-Basel, Special Issue Editor, 2021 - Continues

Annals of Artificial Intelligence Research, Committee Member, 2021 - Continues

HIV Infection: Research Studies, Committee Member, 2019 - Continues

Contemporary Mathematics, Editor, 2019 - Continues

Cloud Computing and Data Science, Editor, 2019 - Continues

Research and Communications in Mathematics and Mathematical Sciences, First Editor, 2019 - Continues

Journal of Engineering and Applied Mathematics, Editor, 2015 - Continues

Journal of Advances in Applied & Computational Mathematics, Editor, 2014 - Continues

Journal of Pure and Applied Mathematics: Advances and Applications, Editor, 2013 - Continues

Cmes-Computer Modeling In Engineering, Special Issue Editor, 2019 - 2020

Research and Communications in Mathematics and Mathematical Sciences, Editor, 2012 - 2019

International Journal of Differential Equations, Special Issue Editor, 2018 - 2018

Applied Mathematics and Physics, Special Issue Editor, 2017 - 2017

Turkish Journal Of Mathematics, Editor, 2016 - 2017

Scientific Refereeing

Iranian Journal of Science and Technology, Transactions A: Science, SCI Journal, May 2017

Advances in Difference Equations, SCI Journal, May 2017

Advances in Mathematical Physics , SCI Journal, May 2017

Research and Communications in Mathematics and Mathematical Sciences, Other Indexed Journal, March 2017

Journal of Computational and Applied Mathematics, SCI Journal, March 2017

International Journal of Biomathematics, SCI Journal, March 2017

Nonlinear Engineering Modeling and Application, Other Indexed Journal, March 2017

Nonlinear Dynamics, SCI Journal, March 2017

Turkish Journal of Mathematics, SCI Journal, February 2017

International Journal of Differential Equations , Other Indexed Journal, February 2017

International Journal of Biomathematics, SCI Journal, February 2017

Journal of Advances in Applied & Computational Mathematics, Other Indexed Journal, January 2017

Mathematical Sciences, Other Indexed Journal, January 2017

Advances in Mathematical Physics , Other Indexed Journal, January 2017

Turk. J. Math. Comput. Sci., Other Indexed Journal, December 2016

Turk. J. Math. Comput. Sci., Other Indexed Journal, December 2016

Journal of Mathematics, Other Indexed Journal, December 2016

Advances in Difference Equations, SCI Journal, December 2016

International Journal of Biomathematics, SCI Journal, November 2016
 Journal of Applied Mathematics and Computing, Other Indexed Journal, November 2016
 Appl Math J Chinese Univ, Other Indexed Journal, November 2016
 IEEE Transactions on Circuits and Systems II: Express Briefs, SCI Journal, November 2016
 International Journal of Computer Mathematics, SCI Journal, November 2016
 Nonlinear Dynamics, SCI Journal, November 2016
 Turkish Journal of Mathematics, SCI Journal, November 2016
 Research and Communications in Mathematics and Mathematical Sciences, Other Indexed Journal, October 2016
 Turkish Journal of Mathematics, SCI Journal, October 2016
 Kuwait Journal of Science, SCI Journal, October 2016
 Turk J Math Comput Sci (TJMCS), Other Indexed Journal, October 2016
 Journal of the Association of Arab Universities for Basic and Applied Sciences , Other Indexed Journal, September 2016
 Journal of Applied Mathematics, SCI Journal, September 2016
 Neural Computing and Applications, SCI Journal, September 2016
 International Journal of Differential Equations, Other Indexed Journal, September 2016
 Alexandria Engineering Journal, Other Indexed Journal, August 2016
 International Journal of Numerical Methods for Heat and Fluid Flow, SCI Journal, July 2016
 Turkish Journal of Mathematics, SCI Journal, July 2016
 Turkish Journal of Mathematics, SCI Journal, June 2016
 International Journal of Numerical Methods for Heat and Fluid Flow, SCI Journal, June 2016
 Engineering Computations, SCI Journal, June 2016
 Neural Computing and Applications, SCI Journal, June 2016
 Applications and Applied Mathematics: An International Journal (AAM), Other Indexed Journal, June 2016
 Engineering Computations, SCI Journal, June 2016
 Iranian Journal of Science and Technology, Transactions A: Science, SCI Journal, May 2016
 New Trends in Mathematical Sciences, Other Indexed Journal, May 2016
 International Journal of Biomathematics, SCI Journal, May 2016
 The European Physical Journal - Plus, SCI Journal, May 2016
 Iranian Journal of Science and Technology, Transactions A: Science, SCI Journal, April 2016
 Applied Soft Computing, SCI Journal, April 2016
 International Journal of Computer Mathematics, SCI Journal, April 2016
 Biomedical Research, SCI Journal, April 2016
 International Journal of Computational Methods, SCI Journal, April 2016
 Research and Communications in Mathematics and Mathematical Sciences, Other Indexed Journal, April 2016
 Engineering Computations, SCI Journal, April 2016
 Journal of Mathematics and Statistics, Other Indexed Journal, April 2016
 Nonlinear Dynamics, SCI Journal, April 2016
 Journal of the Association of Arab Universities for Basic and Applied Sciences, Other Indexed Journal, March 2016
 Journal of Pure and Applied Mathematics: Advances and Applications, Other Indexed Journal, March 2016
 Neural Computing and Applications, SCI Journal, March 2016
 Asian Journal of Mathematics and Computer Research, Other Indexed Journal, March 2016
 Applied Soft Computing, SCI Journal, March 2016
 Asian Journal of Mathematics and Computer Research, Other Indexed Journal, March 2016
 Kuwait Journal of Science, SCI Journal, February 2016
 Journal of Pure and Applied Mathematics: Advances and Applications, Other Indexed Journal, February 2016
 International Journal of Biomathematics, SCI Journal, February 2016
 International Journal of Computational Methods, SCI Journal, January 2016
 British Journal of Mathematics & Computer Science, Other Indexed Journal, January 2016
 British Journal of Mathematics & Computer Science, Other Indexed Journal, December 2015
 British Journal of Applied Science & Technology, Other Indexed Journal, December 2015
 Kuwait Journal of Science, SCI Journal, December 2015

British Journal of Applied Science & Technology, Other Indexed Journal, December 2015
 American Journal of Applied Sciences, Other Indexed Journal, December 2015
 Advances in Research, Other Indexed Journal, December 2015
 Journal of Applied Mathematics, Other Indexed Journal, December 2015
 Journal of the Association of Arab Universities for Basic and Applied Sciences, Other Indexed Journal, December 2015
 Journal of the Association of Arab Universities for Basic and Applied Sciences, Other Indexed Journal, December 2015
 Applied Mathematics and Computation, SCI Journal, November 2015
 Kuwait Journal of Science, SCI Journal, November 2015
 Applied Mathematics and Computation, SCI Journal, November 2015
 Alexandria Engineering Journal, Other Indexed Journal, November 2015
 International Journal of Computational Methods, SCI Journal, November 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, November 2015
 International Journal of Biomathematics, SCI Journal, November 2015
 Applicable Analysis, SCI Journal, November 2015
 International Journal of Biomathematics, SCI Journal, October 2015
 Journal of King Saud University (Science), Other Indexed Journal, October 2015
 Journal of King Saud University (Science) , Other Indexed Journal, September 2015
 Journal of King Saud University (Science), Other Indexed Journal, September 2015
 Asian Journal of Mathematics and Computer Research, Other Indexed Journal, September 2015
 Kuwait Journal of Science, SCI Journal, September 2015
 Iranian Journal of Mathematical Sciences and Informatics, Other Indexed Journal, September 2015
 International Journal of Computer Mathematics, SCI Journal, September 2015
 British Journal of Mathematics & Computer Science , Other Indexed Journal, August 2015
 Zeitschrift für Naturforschung C, SCI Journal, August 2015
 Filomat, SCI Journal, August 2015
 Applied Mathematics and Computation, SCI Journal, August 2015
 International Journal of Computer Mathematics, SCI Journal, August 2015
 New Trends in Mathematical Sciences, Other Indexed Journal, July 2015
 Neural Computing and Applications, SCI Journal, July 2015
 Turkish Journal of Mathematics, SCI Journal, July 2015
 Applied Mathematics and Computation, SCI Journal, July 2015
 Journal of Computational and Nonlinear Dynamics, SCI Journal, June 2015
 Mathematical & Computational Applications, Other Indexed Journal, June 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, June 2015
 Applied Mathematics and Computation, SCI Journal, June 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, June 2015
 Neural Computing and Applications, SCI Journal, June 2015
 Applied Mathematics and Computation, SCI Journal, May 2015
 African Journal of Mathematics and Computer Science Research, Other Indexed Journal, May 2015
 Asian Journal of Mathematics and Computer Research, Other Indexed Journal, April 2015
 Asian Journal of Mathematics and Computer Research, Other Indexed Journal, April 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, April 2015
 Asian Journal of Mathematics and Computer Research, Other Indexed Journal, April 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, April 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, April 2015
 Kuwait Journal of Science, SCI Journal, April 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, April 2015
 New Trends in Mathematical Sciences, Other Indexed Journal, March 2015
 Gazi University Journal of Science, Other Indexed Journal, March 2015
 Mathematical Methods in the Applied Sciences, SCI Journal, March 2015
 International Journal of Computer Mathematics, SCI Journal, March 2015

Turkish Journal of Mathematics, SCI Journal, March 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, March 2015
 Asian Journal of Mathematics and Computer Research, Other Indexed Journal, March 2015
 Ain Shams Engineering Journal, Other Indexed Journal, February 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, February 2015
 Applied Mathematical Modelling, SCI Journal, February 2015
 British Journal of Mathematics & Computer Science, Other Indexed Journal, February 2015
 New Trends in Mathematical Sciences, Other Indexed Journal, February 2015
 Applied Mathematics and Computation, SCI Journal, January 2015
 Turkish Journal of Mathematics, SCI Journal, January 2015
 International Journal of Computer Mathematics, SCI Journal, January 2015
 Ain Shams Engineering Journal, Other Indexed Journal, January 2015
 British Journal of Mathematics & Computer Science, SCI Journal, December 2014
 Mathematical Methods in the Applied Sciences, SCI Journal, December 2014
 British Journal of Mathematics & Computer Science, SCI Journal, December 2014
 British Journal of Mathematics & Computer Science, SCI Journal, November 2014
 Kuwait Journal of Science, SCI Journal, November 2014
 Filomat, SCI Journal, October 2014
 Applied Mathematics and Computation, SCI Journal, October 2014
 Mathematical Methods in the Applied Sciences, SCI Journal, August 2014
 Neural Computing and Applications, SCI Journal, August 2014
 Journal of Applied Mathematics and Computing, Other Indexed Journal, August 2014
 Neural Computing and Applications, SCI Journal, August 2014
 Neural Computing and Applications, SCI Journal, July 2014
 Applied Mathematical Modelling, SCI Journal, July 2014
 Alexandria Engineering Journal, Other Indexed Journal, June 2014
 Journal of Advances in Applied & Computational Mathematics, Other Indexed Journal, June 2014
 New Trends in Mathematical Sciences , Other Indexed Journal, June 2014
 International Journal of Computational Mathematics, Other Indexed Journal, June 2014
 Journal of Applied Mathematics, SCI Journal, May 2014
 Mathematical Methods in the Applied Sciences, SCI Journal, May 2014
 African Journal of Mathematics and Computer Science Research, Other Indexed Journal, April 2014
 Bulletin of the Belgian Mathematical Society, SCI Journal, March 2014
 International Journal of the Physical Sciences, Other Indexed Journal, March 2014
 International Journal of Physical Sciences, Other Indexed Journal, March 2014
 Ain Shams Engineering Journal, Other Indexed Journal, March 2014
 Journal of Applied Mathematics, SCI Journal, February 2014
 Journal of Computational and Nonlinear Dynamics, Other Indexed Journal, February 2014
 Journal of Applied Mathematics and Computing, Other Indexed Journal, February 2014
 Ain Shams Engineering Journal, Other Indexed Journal, February 2014
 Ain Shams Engineering Journal, Other Indexed Journal, December 2013
 Journal of Science (Kharazmi University), Other Indexed Journal, December 2013
 University of Ordu Journal of Science and Technology, Other Indexed Journal, October 2013
 International Journal of Physical Sciences, Other Indexed Journal, October 2013
 Journal of Science (Kharazmi University), Other Indexed Journal, October 2013
 Ain Shams Engineering Journal, Other Indexed Journal, October 2013
 Scientific Research and Essays, Other Indexed Journal, September 2013
 Applied Mathematical Modelling, SCI Journal, September 2013
 Applied Mathematics & Information Sciences, SCI Journal, September 2013
 International Journal of Computer Mathematics, Other Indexed Journal, August 2013
 World Applied Science Journal, Other Indexed Journal, July 2013

International Journal of Computer Mathematics, Other Indexed Journal, June 2013
 Journal of Applied Mathematics and Informatics, Other Indexed Journal, June 2013
 Ain Shams Engineering Journal, Other Indexed Journal, June 2013
 Applied and Computational Mathematics , SCI Journal, May 2013
 Turkish Journal of Mathematics, SCI Journal, May 2013
 Ain Shams Engineering Journal, Other Indexed Journal, May 2013
 Abstract and Applied Analysis, SCI Journal, April 2013
 Applied Mathematical Modelling, SCI Journal, April 2013
 Advanced Research in Dynamical & Control Systems, Other Indexed Journal, March 2013
 Journal of Pure and Applied Mathematics: Advances and Applications, Other Indexed Journal, March 2013
 International Journal of Computer Mathematics, Other Indexed Journal, March 2013
 Mathematical and Computational Applications, Other Indexed Journal, March 2013
 Journal of Pure and Applied Mathematics: Advances and Applications, Other Indexed Journal, March 2013
 Mathematical and Computational Applications, Other Indexed Journal, March 2013
 Journal of the Franklin Institute, Other Indexed Journal, March 2013
 Mathematical and Computer Modelling, SCI Journal, February 2013
 World Journal of Modeling and Simulation, Other Indexed Journal, February 2013
 Abstract and Applied Analysis, SCI Journal, February 2013
 Scientific Research and Essays, Other Indexed Journal, January 2013
 Journal of the Franklin Institute, Other Indexed Journal, January 2013
 World Journal of Modeling and Simulation, Other Indexed Journal, January 2013
 IMA Journal of Mathematical Control and Information, SCI Journal, January 2013
 World Applied Science Journal, Other Indexed Journal, January 2013
 Nonlinear Analysis: Modelling and Control, Other Indexed Journal, October 2012
 International Journal of Nonlinear Science, Other Indexed Journal, October 2012
 Journal of the Franklin Institute, Other Indexed Journal, October 2012
 Journal of the Franklin Institute, Other Indexed Journal, October 2012
 Journal of Applied Mathematics and Computing, Other Indexed Journal, August 2012
 Journal of Advanced Research in Scientific Computing, Other Indexed Journal, August 2012
 Ain Shams Engineering Journal, Other Indexed Journal, July 2012
 IMA Journal of Mathematical Control and Information, SCI Journal, June 2012
 Mathematical Methods in the Applied Sciences, SCI Journal, June 2012
 Applied Mathematical Modelling, SCI Journal, May 2012
 Discrete Dynamics in Nature and Society, SCI Journal, May 2012
 Ain Shams Engineering Journal, Other Indexed Journal, May 2012
 Applicable Analysis, Other Indexed Journal, May 2012
 Applications and Applied Mathematics: An International Journal (AAM), Other Indexed Journal, April 2012
 Ain Shams Engineering Journal, Other Indexed Journal, March 2012
 Applicable Analysis, Other Indexed Journal, March 2012
 International Journal of Nonlinear Sciences and Numerical Simulation, Other Indexed Journal, February 2012
 Applications and Applied Mathematics: An International Journal (AAM), Other Indexed Journal, February 2012
 Applications and Applied Mathematics: An International Journal (AAM) , Other Indexed Journal, January 2012

Metrics

Publication: 210
 Citation (WoS): 1517
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 H-Index (WoS): 22
 H-Index (Scopus): 22

Congress and Symposium Activities

- 13th International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE), Attendee, Antalya, Turkey, 2021
2. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Attendee, Ankara, Turkey, 2021
2. AL FARABI INTERNATIONAL CONGRESS ON APPLIED SCIENCES, Attendee, Nakhchivan, Azerbaijan, 2021
- INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Attendee, Ankara, Turkey, 2020
1. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Moderator, Ankara, Turkey, 2020
- TURK-COSE 2020: 2nd International Turkish World Science and Engineering Congress, Attendee, Niğde, Turkey, 2020
- 5 th International Congress on Multidisciplinary Studies, Attendee, Ankara, Turkey, 2018
- 5 th International Congress on Multidisciplinary Studies, Attendee, Antalya, Turkey, 2018
- Türk Akademik Araştırmalar Dergisi Uluslararası Multidisipliner Kongresi (TARRC), Attendee, Antalya, Turkey, 2018
- International Conference on Mathematics (ICOM), Attendee, İstanbul, Turkey, 2018
- International Conference on Mathematics and Mathematics Education (ICMME-2018), Attendee, Ordu, Turkey, 2018
- 2nd International Conference on Advances in Science, Attendee, İstanbul, Turkey, 2017
- 15th International Geometry Symposium, Attendee, Amasya, Turkey, 2017
- International Conference on Applied Analysis and Mathematical Modelling, Attendee, İstanbul, Turkey, 2017
- II. International Symposium on Multidisciplinary Studies, Attendee, Rome, Italy, 2017
- International Conference on Mathematics and Engineering, Attendee, İstanbul, Turkey, 2017
- International Conference on Applied Mathematics and Analysis (ICAMA2016), Attendee, Ankara, Turkey, 2016
- International Conference on Quantum Science and Applications (ICQSA-2016), Attendee, Turkey, 2016
- 14th Uluslararası Geometri Sempozyumu, Attendee, Denizli, Turkey, 2016
- International Conference on Quantum Science and Applications (ICQSA-2016), Attendee, Turkey, 2016
- International Conference on Quantum Science and Applications (ICQSA-2016), Attendee, Eskişehir, Turkey, 2016
- 14th Uluslararası Geometri Sempozyumu, Attendee, Turkey, 2016
- International Conference on Advancements in Mathematical Sciences (AMS), Attendee, Antalya, Turkey, 2015
28. Ulusal Matematik Sempozyumu, Attendee, Antalya, Turkey, 2015
- Karatekin Mathematics Days, Attendee, Çankırı, Turkey, 2014
13. Matematik Sempozyumu, Attendee, Karabük, Turkey, 2014
- 4th International Conference of Matrix Analysis and Applications, Attendee, Konya, Turkey, 2013
- International Conference on Applied Analysis and Mathematical Modelling, Attendee, İstanbul, Turkey, 2013
8. Ankara Matematik Günleri Sempozyumu, Attendee, Ankara, Turkey, 2013
- 4th International Conference on Mathematical and Computational Applications, Attendee, Manisa, Turkey, 2013
- The 2nd International Conference on Computation for Science and Technology, Attendee, Niğde, Turkey, 2012
- The 2nd International Conference on Computation for Science and Technology, Attendee, Niğde, Turkey, 2012
- International Conference on Applied Analysis and Algebra, Attendee, İstanbul, Turkey, 2012
7. Ankara Matematik Günleri Sempozyumu, Attendee, Ankara, Turkey, 2012
10. Matematik Sempozyumu, Attendee, İstanbul, Turkey, 2011
- XXIV. Ulusal Matematik Sempozyumu, Attendee, Bursa, Turkey, 2011
- International Conference on Applied Analysis and Algebra, Attendee, İstanbul, Turkey, 2011
- 2nd International Symposium on Computing in Science and Engineering, Attendee, Aydın, Turkey, 2011
6. Ankara Matematik Günleri Sempozyumu, Attendee, Ankara, Turkey, 2011
- XXIII. Ulusal Matematik Sempozyumu, Attendee, Kayseri, Turkey, 2010
- Fifth RISC/SCIENCE Training School in Symbolic Computation, Attendee, Hagenberg, Austria, 2010
5. Ankara Matematik Günleri Sempozyumu, Attendee, Ankara, Turkey, 2010

Research Areas

Mathematics, Differential Equations, Functional Equations, Integral Equations, Integral Transformations, Computational Calculation, Partial Differential Equations, Special Functions, Numerical Analysis, Approximations and Expansions,

