

Asst. Prof. Pınar ALBAYRAK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Fen Edebiyat, Matematik, Turkey 2005 - 2009

Postgraduate, Yildiz Technical University, Fen Edebiyat, Matematik, Turkey 2001 - 2004

Undergraduate, Yildiz Technical University, Fen Edebiyat, Matematik, Turkey 1997 - 2001

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Mathematics, Differential Equations, Functional Equations, Integral Equations, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2018 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2009 - 2018

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2001 - 2009

Academic and Administrative Experience

Faculty FEDEK Representative, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2021 - 2022

Member of Department FEDEK Commission, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2020 - 2022

Bölüm Kalite Komisyonu Başkanı, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2012 - 2022

Adaptation/Exemption Committee Member, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2018 - 2021

Deputy Head of Department, Yildiz Technical University, 2017 - 2020

Courses

İLERİ MÜHENDİSLİK MATEMATİĞİ 2, Postgraduate, 2023 - 2024

CALCULUS 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

MATEMATİK ANALİZ 2, Undergraduate, 2022 - 2023, 2019 - 2020

CALCULUS 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

REEL ANALİZE GİRİŞ, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014

LİNEER CEBİR, Undergraduate, 2014 - 2015

Advising Theses

Albayrak P., Numerical Solutions of Some Fractional Differential Equations, Postgraduate, İ.ERDURMUŞ(Student), 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optical solitons of stochastic perturbed Radhakrishnan-Kundu-Lakshmanan model with Kerr law of self-phase-modulation**
ALBAYRAK P., ÖZİŞİK M., SEÇER A., BAYRAM M., Ebru Das S. E.
Modern Physics Letters B, vol.38, no.15, 2024 (SCI-Expanded)
- II. **Optical solitons of a cubic-quartic nonlinear Schrödinger equation with parabolic law nonlinearity in optical metamaterials**
Das S. E., Ozisik M., Bayram M., Secer A., Albayrak P.
International Journal of Geometric Methods in Modern Physics, vol.20, no.13, 2023 (SCI-Expanded)
- III. **Optical solitons of (2+1)-dimensional Biswas–Milovic model with Kerr and parabolic laws of self-phase modulation**
Das S. E., Ozisik M., Secer A., Bayram M., Albayrak P.
Optik, vol.288, 2023 (SCI-Expanded)
- IV. **Optical solitons of Biswas–Milovic model having spatio-temporal dispersion and parabolic law via a couple of Kudryashov's schemes**
Albayrak P.
Optik, vol.279, 2023 (SCI-Expanded)
- V. **SOLITON SOLUTIONS OF (2+1)-DIMENSIONAL NON-LINEAR REACTION-DIFFUSION MODEL VIA RICCATI-BERNOULLI APPROACH**
ALBAYRAK P.
Thermal Science, vol.26, no.SpecialIssue2, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **Pell Collocation Approach for the Nonlinear Pantograph Differential Equations**
Albayrak P.
Sinop Üniversitesi Fen Bilimleri Dergisi, no.9, pp.167-183, 2024 (Peer-Reviewed Journal)
- II. **Solitary wave solutions of the (4+1)-dimensional Fokas equation via an efficient integration technique**
ALBAYRAK P.
Avrupa Bilim ve Teknoloji Dergisi, no.46, pp.54-63, 2023 (Peer-Reviewed Journal)
- III. **Pure-Cubic Optical Solitons and Stability Analysis with Kerr Law Nonlinearity**

Albayrak P., Ozisik M., Bayram M., Secer A., Das S. E., Biswas A., Yıldırım Y., Mirzazadeh M., Asiri A.
Contemporary Mathematics (Singapore), vol.4, no.3, pp.530-548, 2023 (Scopus)

IV. **On invariant ideals on locally convex solid Riesz spaces.**

ÇELİKER F., ALBAYRAK P.

Operator theory live, vol.12, pp.1-4, 2010 (Peer-Reviewed Journal)

V. **On Invariant Subspaces of Weakly Compact Friendly Operators**

GÖK Ö., ALBAYRAK P.

International Journal of Contemporary Mathematical Sciences, vol.4, pp.259-266, 2009 (Peer-Reviewed Journal)

VI. **On Weakly Compact Friendly Operators**

GÖK Ö., ALBAYRAK P.

International Journal of Pure and Applied Math., vol.50, pp.609-613, 2009 (Peer-Reviewed Journal)

VII. **The Second Regularized Trace of a Second Order Differential Operator with Unbounded Operator Coefficient**

Adıgüzelov E., Albayrak P.

International Journal of Pure and Applied Math, vol.22, pp.349-365, 2005 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Hermite Collocation Approach for the Solution of a Class of Fractional Differential Equations**

Albayrak P., Erdurmuş İ.

7th International HYBRID Conference on Mathematical Advances and Applications, İstanbul, Turkey, 8 - 11 May 2024, pp.107

II. **Numerical Solutions of a Class of Fractional Differential Equations**

Albayrak P., Düzen A. A.

7th International HYBRID Conference on Mathematical Advances and Applications, İstanbul, Turkey, 8 - 11 May 2024, pp.1

III. **Retrieval optical solitons of perturbed Radhakrishnan-Kundu-Lakshmanan equation**

Albayrak P., Özışık M., Seçer A., Bayram M.

(hybrid) International Conference on Nonlinear Science and Complexity (ICNSC23,) July 10-15, 2023, Istanbul-Turkey, İstanbul, Turkey, 10 - 15 July 2023, pp.91-92

IV. **Dimensionless form of (1+1)-dimensional Radhakrishnan-Kundu-Lakshmanan equation with parabolic law of self-phase modulation in the presence of group velocity dispersion**

Albayrak P., Özışık M.

(hybrid) International Conference on Nonlinear Science and Complexity (ICNSC23,) July 10-15, 2023, Istanbul-Turkey, İstanbul, Turkey, 10 - 15 July 2023, pp.96-97

V. **Dimensionless form of (1+1)-dimensional Radhakrishnan-Kundu-Lakshmanan equation with parabolic law of self-phase modulation in the presence of group velocity dispersion**

Albayrak P., Özışık M.

International Conference on Nonlinear Science and Complexity (ICNSC23,), İstanbul, Turkey, 10 - 15 July 2023, pp.96

VI. **Retrieval optical solitons of perturbed Radhakrishnan-Kundu-Lakshmanan equation**

Albayrak P., Özışık M., Seçer A., Bayram M.

INTERNATIONAL CONFERENCE ON NONLINEAR SCIENCE AND COMPLEXITY, 2023, İstanbul, Turkey, 10 - 15 July 2023, pp.91

VII. **On Locally Convex Solid Riesz Spaces**

Çeliker F., Albayrak P.

13th Algebraic Hyperstructures and its Applications, İstanbul, Turkey, 24 - 27 July 2017, pp.114

VIII. **Some Results About Invariant Subspaces of Weakly Compact-Friendly Operators**

ALBAYRAK P.

3. International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 2 - 06 February 2017

IX. Positive Operators on Banach Lattices

ALBAYRAK P.

International Conference on Applied Analysis and Mathematical Modelling (ICAAMM 2015), İstanbul, Turkey, 8 - 12 June 2015

X. On Duals of Strictly Transitive Operator Algebras on Banach Spaces

DEMİR E., ALBAYRAK P.

International Conference on Applied Analysis and Mathematical Modelling (ICAAMM 2015), İstanbul, Turkey, 8 - 12 June 2015

XI. On Invariant Ideals on Banach Lattices

ALBAYRAK P.

22. Conference in Operator Theory, 01 July 2008

Metrics

Publication: 27

Citation (WoS): 39

Citation (Scopus): 48

H-Index (WoS): 3

H-Index (Scopus): 4

Congress and Symposium Activities

International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2017

3rd International Conference on Pure and Applied Sciences, Attendee, Dubai, United Arab Emirates, 2017

International Conference on Applied Analysis and Mathematical Modeling, Attendee, Turkey, 2013

22nd Conference in Operator Theory, Attendee, Timisoara, Romania, 2008

Scholarships

TÜBİTAK Lisansüstü Burs Programı BİDEB, TUBİTAK, 2005 - 2009