

Assoc. Prof. Cihan Bayındır

Personal Information

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Education Information

Doctorate, Georgia Institute of Technology, Engineering, United States Of America 2012 - 2013

Post Graduate, Georgia Institute of Technology, Engineering, Electrical and Computer Engineering, United States Of America 2009 - 2011

Post Graduate, University of Delaware, Engineering, Ocean Engineering, United States Of America 2007 - 2009

Under Graduate, Boğaziçi Üniversitesi, Engineering (Civil, Mechanical, Chemical, Electrical, Industrial), Civil Engineering, Turkey 2002 - 2007

Research Areas

Electrical and Electronics Engineering, Optics and Photonics, Electromagnetic, Wave Propagation and Remote Sensing, Civil Engineering, Geotechnical, Hydraulic, Mechanical

Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, İnşaat, İnşaat Mühendisliği, 2019 - Continues

Associate Professor, Boğaziçi Üniversitesi, Engineering (Civil, Mechanical, Chemical, Electrical, Industrial), 2018 - Continues

Associate Professor, Işık Üniversitesi, Faculty Of Engineering, 2018 - 2019

Assistant Professor, Işık Üniversitesi, Faculty Of Engineering, 2013 - 2018

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

- I. **Self-localized solitons of the nonlinear wave blocking problem**
Bayındır C.
DYNAMICS OF ATMOSPHERES AND OCEANS, vol.93, 2021 (Journal Indexed in SCI)
- II. **Zeno dynamics of quantum chirps**
Bayındır C.
PHYSICS LETTERS A, vol.389, 2021 (Journal Indexed in SCI)
- III. **Self-localized solitons of a q-deformed quantum system**
Bayındır C., Altıntaş A. A., Ozaydin F.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.92, 2021 (Journal Indexed in SCI)
- IV. **Rogue heat and diffusion waves**
Bayındır C.
CHAOS SOLITONS & FRACTALS, vol.139, 2020 (Journal Indexed in SCI)
- V. **q-Deformed three-level quantum logic**

Altintas A. A. , Ozaydin F., Bayındır C.

QUANTUM INFORMATION PROCESSING, vol.19, no.8, 2020 (Journal Indexed in SCI)

- VI. **Rogue quantum harmonic oscillations**
Bayındır C.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.547, 2020 (Journal Indexed in SCI)
- VII. **Self-localized solutions of the Kundu-Eckhaus equation in nonlinear waveguides**
Bayındır C.
RESULTS IN PHYSICS, vol.14, 2019 (Journal Indexed in SCI)
- VIII. **FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3**
Abada A., Abbrescia M., AbdusSalam S. S. , Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A. O. , Adzic P. R. , Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.4, pp.755-1107, 2019 (Journal Indexed in SCI)
- IX. **HE-LHC: The High-Energy Large Hadron Collider Future Circular Collider Conceptual Design Report Volume 4**
Abada A., Abbrescia M., AbdusSalam S. S. , Abdyukhanov I., Abelleira Fernandez J., Abramov A., Aburaia M., Acar A. O. , Adzic P. R. , Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.5, pp.1109-1382, 2019 (Journal Indexed in SCI)
- X. **FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1**
Abada A., Abbrescia M., AbdusSalam S. S. , Abdyukhanov I., Fernandez J. A. , Abramov A., Aburaia M., Acar A. O. , Adzic P. R. , Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.6, 2019 (Journal Indexed in SCI)
- XI. **FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2**
Abada A., Abbrescia M., AbdusSalam S. S. , Abdyukhanov I., Fernandez J. A. , Abramov A., Aburaia M., Acar A. O. , Adzic P. R. , Agrawal P., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.228, no.2, pp.261-623, 2019 (Journal Indexed in SCI)
- XII. **Freezing optical rogue waves by Zeno dynamics**
Bayındır C., Ozaydin F.
OPTICS COMMUNICATIONS, vol.413, pp.141-146, 2018 (Journal Indexed in SCI)
- XIII. **Assessment and Enhancement of SAR Noncoherent Change Detection of Sea-Surface Oil Spills**
Bayındır C., Frost J. D. , Barnes C. F.
IEEE JOURNAL OF OCEANIC ENGINEERING, vol.43, no.1, pp.211-220, 2018 (Journal Indexed in SCI)
- XIV. **Rogue wave spectra of the Kundu-Eckhaus equation**
Bayındır C.
PHYSICAL REVIEW E, vol.93, no.6, 2016 (Journal Indexed in SCI)
- XV. **Rogue waves of the Kundu-Eckhaus equation in a chaotic wave field**
Bayındır C.
PHYSICAL REVIEW E, vol.93, no.3, 2016 (Journal Indexed in SCI)
- XVI. **Compressive Spectral Method for the Simulation of the Nonlinear Gravity Waves**
Bayındır C.
SCIENTIFIC REPORTS, vol.6, 2016 (Journal Indexed in SCI)
- XVII. **Early detection of rogue waves by the wavelet transforms**
Bayındır C.
PHYSICS LETTERS A, vol.380, pp.156-161, 2016 (Journal Indexed in SCI)
- XVIII. **A note on the cylindrical solitary waves in an electron-acoustic plasma with vortex electron distribution**
Demiray H., Bayındır C.
PHYSICS OF PLASMAS, vol.22, no.9, 2015 (Journal Indexed in SCI)
- XIX. **The effects of surface gravity waves on high-frequency acoustic propagation in shallow water**
Karjadi E. A. , Badiy M., Kirby J. T. , Bayındır C.
IEEE Journal of Oceanic Engineering, vol.37, no.1, pp.112-121, 2012 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **A SPLIT-STEP FOURIER SCHEME FOR THE DISSIPATIVE KUNDU-ECKHAUS EQUATION AND ITS ROGUE WAVE DYNAMICS**
Bayındır C., Yurtbak H.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.11, no.1, pp.56-65, 2021 (Journal Indexed in ESCI)
- II. **A TOMOGRAPHIC APPROACH FOR THE EARLY DETECTION OF 2D ROGUE WAVES**
Bayındır C.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.10, no.3, pp.638-649, 2020 (Journal Indexed in ESCI)
- III. **EARLY DETECTION OF ROGUE WAVES USING COMPRESSIVE SAMPLING**
Bayındır C.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, no.2, pp.198-205, 2019 (Journal Indexed in ESCI)
- IV. **EFFECTS OF GROUND WATER TABLE AND GROUND INCLINATION ON TRAIN INDUCED GROUND-BORNE VIBRATIONS**
Bayındır C.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, no.4, pp.735-746, 2019 (Journal Indexed in ESCI)
- V. **COMPRESSIVE SPECTRAL RENORMALIZATION METHOD**
Bayındır C.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.8, no.2, pp.425-437, 2018 (Journal Indexed in ESCI)
- VI. **Rogue Wavefunctions Due to Noisy Quantum Tunneling Potentials**
BAYINDIR C.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.7, pp.236-247, 2017 (Journal Indexed in ESCI)
- VII. **ANALYTICAL AND NUMERICAL ASPECTS OF THE DISSIPATIVE NONLINEAR SCHRODINGER EQUATION**
Bayındır C.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.6, no.1, pp.135-142, 2016 (Journal Indexed in ESCI)
- VIII. **Compressive split step Fourier method**
BAYINDIR C.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.5, pp.298-306, 2015 (Refereed Journals of Other Institutions)
- IX. **Dalgalardan enerji elde etme teknolojisinin yirminci yüzyıl başında Türkiye deki yansımaları üzerine bir çeviri**
Bayındır A., Bayındır C.
Osmanlı Bilimi Araştırmaları (Studies in Ottoman Science), vol.16, pp.67-70, 2015 (Refereed Journals of Other Institutions)
- X. **A novel nonlinear frequency modulated chirp signal for synthetic aperture radar and sonar imaging**
Bayındır C.
Journal of Naval Science and Engineering (Deniz Harp Okulu Deniz Bilimleri ve Mühendisliği Dergisi), vol.11, pp.68-81, 2015 (Refereed Journals of Other Institutions)
- XI. **Akışkan görüntüleme yöntemleri**
BAYINDIR C.
Tübitak Bilim ve Teknik Dergisi, pp.66-70, 2013 (National Non-Refereed Journal)
- XII. **Denizlerin incelenmesinde elektromanyetik dalgalar**
BAYINDIR C.
Tübitak Bilim ve Teknik Dergisi, pp.64-66, 2011 (National Non-Refereed Journal)

XIII. Dev dalgalar

BAYINDIR C.

Tübitak Bilim ve Teknik Dergisi, pp.54-55, 2011 (National Non-Refereed Journal)

XIV. Matematik fizik ve mühendislikte tekil dalgalar

BAYINDIR C.

Tübitak Bilim ve Teknik Dergisi, pp.62-63, 2011 (National Non-Refereed Journal)

Books & Book Chapters

I. Efficient Measurement of the Vibrational Rogue Waves by Compressive Sampling Based Wavelet Analysis

Bayındır C.

in: Advances in Rotor Dynamics, Control, and Structural Health Monitoring, Subashisa Dutta, Esin İnan, Santosha Kumar Dwivedy, Editor, Springer, London/Berlin , Singapore, pp.327-336, 2020

Citations

Total Citations (WOS):608

h-index (WOS):10