

CÜNEYT BAYKAL

ASST. PROF.

Email : cbaykal@metu.edu.tr

Office Phone : [+90 312 210 5435](tel:+903122105435)

Fax Phone : [+90 312 210 1800](tel:+903122101800)

Address : Orta Doğu Teknik Üniversitesi İnşaat Mühendisliği
Bölümü, K5 Binası Dumlupınar Blv., Üniversiteler Mah.
Çankaya/Ankara 06800

International Researcher IDs

ScholarID: cbaykal

ORCID: 0000-0002-8514-2758

Publons / Web Of Science ResearcherID: J-2834-2017

ScopusID: 55324534000

Yoksis Researcher ID: 164047



Learning Knowledge

Doctorate
2007 - 2012

Middle East Technical University, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği (Dr), Turkey

Postgraduate
2003 - 2006

Middle East Technical University, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği (YI) (Tezli), Turkey

Undergraduate
1998 - 2003

Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Two-dimensional depth-averaged beach evolution modelling, Middle East Technical University, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği (Dr), 2012

Postgraduate, Numerical modeling of wave diffraction in one-dimensional shoreline change model, Middle East Technical University, Graduate School of Natural and Applied Sciences, İnşaat Mühendisliği (YI) (Tezli), 2006

Academic Titles / Tasks

Supported Projects

1. ÖZYURT TARAKCIOĞLU G., GÖZLET M. S., Kısacık D., BAYKAL C., Project Supported by Higher Education Institutions, İzmir İç Körfezde yaşanan fırtına taşkınlarının araştırılması ve taşkınların önlenmesi için bir öneri: Durgun Dalga Havuzu modeli, 2015 - 2021
2. BAYKAL C., TUBITAK Project, Kıyı Koruma Yapıları Gerisinde Dalga Aşması Kaynaklı Oyulmaların Fiziksel Modellenmesi, 2019 - 2020
3. BAYKAL C., Balcı H. B., Project Supported by Higher Education Institutions, Düşey Yüzlü Dalgakıran Müzvarı Çevresindeki Oyulmanın Sayısal ve Fiziksel Modellenmesi, 2018 - 2020
4. Özyurt Tarakcioğlu G., Baykal C., Kısacık D., Kaboğlu G., Akçalı B., Dondurur D., Akdağ C. T., TUBITAK Project, Nehir Deniz Etkileşiminde Kısa Süreli Sediment Form Oluşumlarının Değerlendirilmesi Gediz ve Büyük Menderes Örnekleri. 115Y722, 2016 - 2018

Awards

1. Baykal C., Outstanding Reviewer for 2018, Asce Journals, March 2019

Designed Lessons

Baykal C., COASTAL AND HARBOUR STRUCTURES DESIGN 2, Postgraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Scour at the rear side of rubble mound revetments due to random wave overtopping: Laboratory experiments**
Yıldırım M. E., Yaman M., BAYKAL C.
Ocean Engineering, vol.309, 2024 (SCI-Expanded)
2. **Numerical simulation of scour at the rear side of a coastal revetment**
ŞENTÜRK B. U., Guler H. G., BAYKAL C.
Ocean Engineering, vol.275, 2023 (SCI-Expanded)
3. **Triboelectric nanogenerators for blue energy harvesting in simulated wave conditions**
DEMİRCİOĞLU O., ÇİÇEK M. Ö., DOĞANAY D., Gazaloglu G., BAYKAL C., ÇINAR AYGÜN S., ÜNALAN H. E.
Nano Energy, vol.107, 2023 (SCI-Expanded)
4. **An experimental study on the motion of solid spheres under solitary wave attack**
Goral K. D., Güler H. G., Baykal C., Yalçın A. C.
OCEAN ENGINEERING, vol.240, 2021 (SCI-Expanded)
5. **Effect of Mean Water Level Variations on the Design and Performance of Rubble-Mound Coastal Protection Structures**
Guler H. G., Tarakcioglu G., BAYKAL C.
TEKNIK DERGI, vol.31, no.3, pp.9941-9966, 2020 (SCI-Expanded)
6. **Stilling wave basins for overtopping reduction at an urban vertical seawall - The Kordon seawall at Izmir**

- Kisacik D., Tarakcioglu G., Baykal C.
OCEAN ENGINEERING, vol.185, pp.82-99, 2019 (SCI-Expanded)
7. **Numerical assessment of tsunami attack on a rubble mound breakwater using OpenFOAM (R)**
GÜLER H. G., BAYKAL C., Arikawa T., YALÇINER A. C.
APPLIED OCEAN RESEARCH, vol.72, pp.76-91, 2018 (SCI-Expanded)
 8. **Tsunami-induced scour around monopile foundations**
Larsen B. E., Fuhrman D. R., BAYKAL C., Sumer B. M.
COASTAL ENGINEERING, vol.129, pp.36-49, 2017 (SCI-Expanded)
 9. **Numerical simulation of scour and backfilling processes around a circular pile in waves**
Baykal C., Sumer B. M., Fuhrman D. R., Jacobsen N. G., Fredsoe J.
COASTAL ENGINEERING, vol.122, pp.87-107, 2017 (SCI-Expanded)
 10. **Risk Assessment and Design of Prevention Structures for Enhanced Tsunami Disaster Resilience (RAPSDI)/Euro-Japan Collaboration**
Harbitz C. B., Nakamura Y., Arikawa T., BAYKAL C., Dogan G. G., Frauenfelder R., Glimsdal S., GÜLER H. G., Issler D., Kaiser G., et al.
COASTAL ENGINEERING JOURNAL, vol.58, no.4, 2016 (SCI-Expanded)
 11. **Numerical investigation of flow and scour around a vertical circular cylinder**
Baykal C., Sumer B. M., Fuhrman D. R., Jacobsen N. G., Fredsoe J.
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, vol.373, 2015 (SCI-Expanded)
 12. **Numerical simulation of wave-induced scour and backfilling processes beneath submarine pipelines**
Fuhrman D. R., Baykal C., Sumer B. M., Jacobsen N. G., Fredsoe J.
COASTAL ENGINEERING, vol.94, pp.10-22, 2014 (SCI-Expanded)
 13. **Two-Dimensional Depth-Averaged Beach Evolution Modeling: Case Study of the Kizilirmak River Mouth, Turkey**
Baykal C., ERGİN A., Guler I.
JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING, vol.140, no.3, 2014 (SCI-Expanded)
 14. **Development of a numerical 2-dimensional beach evolution model**
BAYKAL C.
TURKISH JOURNAL OF EARTH SCIENCES, vol.23, no.2, pp.215-231, 2014 (SCI-Expanded)

Articles Published in Other Journals

1. **Quasi-2DH Modeling of the Shoreline Evolution Around an Offshore Breakwater**
BAYKAL C., ÖZSOY C.
JOURNAL OF ETA MARITIME SCIENCE, pp.238-252, 2024 (ESCI)
2. **CoCoNet: TOWARDS COAST TO COAST NETWORKS OF MARINE PROTECTED AREAS (FROM THE SHORE TO THE HIGH AND DEEP SEA), COUPLED WITH SEA-BASED WIND ENERGY POTENTIAL**
Özyurt Tarakcioğlu G., Boero F., Fogliani F., Frascetti S., Goriup P., Macpherson E., Planes S., Soukissian T., Adiloğlu B., Gween C., et al.
SCIRES-IT-SCIENTIFIC RESEARCH AND INFORMATION TECHNOLOGY, vol.6, pp.1-95, 2016 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

1. **Hydraulic Tests on A XBlocPlus Armoured Coastal Revetment**
GÜLER I., Korkmaz A. M., Sevindik C., Turgut A., GÜLER H. G., BAYKAL C., ÖZYURT TARAKCIOĞLU G., YALÇINER A. C., ERGİN A.
38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024
2. **Numerical and Experimental Investigation of Wave Loads on Mound Breakwater Heads**

Sevindik C., ŞENTÜRK B. U., Demir F., GÜLER H. G., BAYKAL C., ÖZYURT TARAKCIOĞLU G., GÜLER I., YALÇINER A. C., ERGİN A.

38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024

3. **Effects of Different Armour Units and Placement Methods on Wave Loads Acting on Crown Walls**
Demir F., Korkmaz A. M., Erler B., ŞENTÜRK B. U., GÜLER H. G., BAYKAL C., ÖZYURT TARAKCIOĞLU G., KISACIK D., GÜLER I., YALÇINER A. C., et al.
38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024
4. **Enhancing Coastal Flooding Resilience in Izmir Bay Due to Sea Level Rise Using Soft Measures**
Türkseven O. D., KISACIK D., GÜLER I., BAYKAL C.
38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024
5. **Effects of Different Units and Placement Methods on Wave Overtopping on Mound Breakwaters**
Korkmaz A. M., ERLER B., Demir F., ŞENTÜRK B. U., GÜLER H. G., BAYKAL C., ÖZYURT TARAKCIOĞLU G., KISACIK D., GÜLER I., YALÇINER A. C., et al.
38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024
6. **Scour Around Vertical Wall Breakwaters Under Random and Solitary Waves**
BAYKAL C., KARAKAŞ K., YILDIRIM M. E.
38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024
7. **A Case Study on The Major Damage at A Port: Damage Assessment and Upgrade of The Breakwater**
GÜLER H. G., Kirezci Ç., AKYOL B., Gazaloğlu G., IŞIK E., BAYKAL C., ÖZYURT TARAKCIOĞLU G., van der Meer J., GÜLER I., YALÇINER A. C., et al.
38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024
8. **CFD Modeling of The Effect of Antifer Units Used in The Armor Layer of Mound Breakwaters on Wave Overtopping**
ŞENTÜRK B. U., Demir F., ERLER B., Korkmaz A. M., GÜLER H. G., BAYKAL C., ÖZYURT TARAKCIOĞLU G., KISACIK D., GÜLER I., YALÇINER A. C., et al.
38th International Conference on Coastal Engineering, Roma, Italy, 8 - 14 September 2024
9. **MERSİN KUMSAL RESTORASYON PROJESİ SAYISAL MODELLEME ÇALIŞMASI**
Sevindik C., YAMAN M., ÖZSOY C., BAYKAL C., GÜLER I.
İMO 10. Ulusal Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023
10. **İZMİR KÖRFEZİNDE DENİZ SEVİYESİ YÜKSELMESİNE BAĞLI KIYI TAŞKINLARINA ÖNLEM OLARAK YUMUŞAK ÇÖZÜM ÖNERİLERİNİN SAYISAL MODELLEMESİ**
Türkseven O. D., KISACIK D., BAYKAL C., GÜLER I.
İMO 10. Ulusal Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023
11. **DOLGU DALGAKIRANLARDA ANTİFER ÜNİTELERİNİN FARKLI DİZİMLERİNİN DALGA AŞMASINA ETKİSİ**
Erler B., Demir F., Korkmaz A. M., ŞENTÜRK B. U., GÜLER H. G., BAYKAL C., ÖZYURT TARAKCIOĞLU G., KISACIK D., GÜLER I., YALÇINER A. C., et al.
İMO 10. Ulusal Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023
12. **Mersin Kumsal Restorasyon Projesi Sayısal Modelleme Çalışması**
Sevindik C., Yaman M., Özsoy C., Baykal C., Güler I.
İMO 10. Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023, pp.242-250
13. **Karadeniz Bölgesi'nde Yer Alan Bir Limanda Fırtına Kaynaklı Gerçekleşen Ağır Hasarın Değerlendirilmesi**
Güler H. G., Kirezci Ç., Baykal C., Özyurt Tarakcioğlu G., Işık E., Ergin A., Yalçiner A. C., Güler I.
İMO 10. Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023, pp.417-421
14. **Dolgu Dalgakıranların Koruma Tabakasında Kullanılan Antifer Ünitelerin Dalga Aşmasına Etkisinin Sayısal Modellenmesi**
Şentürk B. U., Demir F., Erler B., Korkmaz A. M., Güler H. G., Baykal C., Özyurt Tarakcioğlu G., Kısacık D., Güler I., Yalçiner A. C., et al.
İMO 10. Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023, pp.408-416
15. **İzmir Körfezinde Deniz Seviyesi Yükselmesine Bağlı Kıyı Taşkınlarına Önlem Olarak Yumuşak Çözüm**

Önerilerinin Sayısal Modellemesi

Türkseven O. D., Kısacık D., Baykal C., Güler I.

İMO 10. Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023, pp.251-258

16. **Dolgu Dalgakıranlarda Antifer Ünitelerin Farklı Dizilimlerinin Dalga Aşmasına Etkisi**
Erler B., Demir F., Korkmaz A. M., Şentürk B. U., Güler H. G., Baykal C., Özyurt Tarakcioğlu G., Kısacık D., Güler I., Yalçiner A. C., et al.
İMO 10. Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023, pp.518-527
17. **Effects of Antifer Placement Methods on Wave Overtopping and Wave Loads on Crown-Walls**
Demir F., Erler B., Şentürk B. U., Güler H. G., Baykal C., Özyurt Tarakcioğlu G., Kısacık D., Güler I., Yalçiner A. C., Ergin A.
10th Short Course/Conference on Applied Coastal Research, İstanbul, Turkey, 4 - 06 September 2023, pp.102
18. **Numerical Investigation of a Beach Restoration Project in Mersin using XBEACH and ONELINE Numerical Models**
Baykal C., Sevindik C., Yaman M., Özsoy C., Güler I.
10th Short Course/Conference on Applied Coastal Research, İzmir, Turkey, 4 - 06 September 2023, pp.115
19. **Investigation of Wave Loads at the Lee-Side of a Rubble Mound Breakwater Head**
Sevindik C., Demir F., Şentürk B. U., Güler H. G., Baykal C., Özyurt Tarakcioğlu G., Güler I., Ergin A., Yalçiner A. C.
10th Short Course/Conference on Applied Coastal Research, İstanbul, Turkey, 4 - 06 September 2023, pp.101
20. **Soft Measures Against to Coastal Flooding as A Result of Expected Sea Level Rise in Izmir Bay**
Türkseven O. D., Kısacık D., Baykal C., Güler I.
10th Short Course/Conference on Applied Coastal Research, İstanbul, Turkey, 4 - 06 September 2023, pp.114
21. **Hydrodynamical Comparison of Nami Dance and XBeach Non-Hydrostatic on a Benchmark Study**
Çiçek Y. A., Doğan Bingöl G. G., Güler I., Baykal C., Yalçiner A. C.
14th Int. Conf. on Hydrosience & Engineering, İzmir, Turkey, 26 - 27 May 2022, pp.283-286
22. **Flow and Scour Around Round Head Vertical Wall Breakwater Under Random Waves**
Karakas K., Baykal C.
15th Young Coastal Scientists and Engineers Conference (YCSEC), Glasgow, United Kingdom, 13 - 15 May 2019, pp.1-2
23. **A CASE STUDY ON PERFORMANCE OF RESHAPING BERM BREAKWATERS: ORDU GİRESUN INTERNATIONAL AIRPORT, TURKEY**
Özyurt Tarakcioğlu G., Baykal C., Bezazoğlu S., Atak D., Ergin A., Güler I.
36th International Conference on Coastal Engineering, Maryland, United States Of America, 29 July - 03 August 2018, pp.36-40
24. **A NEW NUMERICAL SOLVER FOR SIMULATING POROUS MEDIA FLOW BASED ON IMMersed BOUNDARY METHOD**
GÜLER H. G., Liu X., Jensen B., Tomaselli P. D., BAYKAL C., ARIKAWA T., YALÇINER A. C.
American Geophysics Union Fall Meeting 2018, Washington, United States Of America, 10 - 14 December 2018
25. **DÜZENLİ DALGALARIN İLERLEYİŞİNİN BENZETİMİNDE SWASH SAYISAL MODELİNİN PERFORMANSININ DEĞERLENDİRİLMESİ**
GÜLER H. G., IŞIK E., SHARGHIVAND N., GÖRAL K. D., BAYKAL C., GÜLER I., ERGİN A.
İMO 9. Ulusal Kıyı Mühendisliği Sempozyumu, Adana, Turkey, 1 - 03 November 2018
26. **Xbloc'lu Tahkimat Kesitinde Sayısal Ve Fiziksel Model Sonuçlarına Göre Dalga Aşması Rize Artvin Havalimanı Tahkimatı**
Karakuş D., Cihan H. K., Sağ M., Baykal C., Yalçiner A. C.
İMO 9. Kıyı Mühendisliği Sempozyumu, Adana, Turkey, 1 - 03 November 2018, pp.752-764
27. **YAPAY BLOKLU KIYI TAHKİMATI DENGE VE DALGA AŞMA DURUMLARININ ARAŞTIRILMASI ÜZERİNE BİR FİZİKSEL MODEL ÇALIŞMASI**
BAYKAL C., ÖZYURT TARAKCIOĞLU G., IŞIK E., Gözlet M. S., GÜLER H. G.
İMO 9. Ulusal Kıyı Mühendisliği Sempozyumu, Adana, Turkey, 1 - 03 November 2018
28. **Kum Beslemesi Uygulamalarında Jeotekstil Tüplerin Kullanımı Üzerine Fiziksel Model Deneyleri**
Işık E., Baykal C.

İMO 9. Kıyı Mühendisliği Sempozyumu, Adana, Turkey, 1 - 03 November 2018, vol.1, pp.160-171

29. **Motion of Solid Spheres under Solitary Wave Attack: Physical and Numerical Modeling**
GÜLER H. G., ARIKAWA T., BAYKAL C., Göral K. D., YALÇINER A. C.
International Conference on Coastal Engineering 2018, Baltimore, United States Of America, 29 July - 04 August 2018
30. **COMPARISON OF NUMERICAL WAVE TANKS WITH VARIOUS TURBULENCE MODELSIN APPLICATION TO LONG WAVE MOTION AND ITS INTERACTION WITH A VERTICALWALL**
ÇINAR G. E., GÜLER H. G., ARIKAWA T., BAYKAL C., YALÇINER A. C.
International Conference on Coastal Engineering 2018, Baltimore, United States Of America, 29 July - 03 August 2018
31. **Vertical Seawall Crest Modifications for Overtopping**
KISACIK D., ÖZYURT G., BAYKAL C., KABOĞLU G.
36th International Conference on Coastal Engineering 2018, Baltimore, United States Of America, 30 July - 03 August 2018
32. **Harbor Agitation Due To Offshore Ship Waves Using Swash: A Case Study Of Kumkapi Yacht Park, Istanbul**
BAYKAL C., ÖZYURT TARAKCIOĞLU G., IŞIK E.
36th International Conference on Coastal Engineering, Baltimore, United States Of America, 29 July - 03 August 2018, vol.1, pp.12
33. **Kıyı Mühendisliği Uygulamalarında Tasarım Dalgası ve Risk**
ÖZYURT TARAKCIOĞLU G., ERGİN A., GÜLER H. G., BAYKAL C., GÜLER I., ESEN M., KİREZCİ Ç., YALÇINER A. C.
3. Ulusal Deniz Bilimleri Konferansı, İzmir, Turkey, 9 - 12 May 2018
34. **Application of XBeach in a Beach Nourishment and Restoration Project A Case Study: Alanya-Turkler, Turkey**
BAYKAL C., ÖZYURT TARAKCIOĞLU G., IŞIK E., GÜLER H. G., AYDIN D. C., ÇINAR G. E., YALÇINER A. C., IŞIKHAN G., ERGİN A.
XBeach X (10th Year Anniversary) Free User Conference, Delft, Netherlands, 1 - 03 November 2017
35. **Comparison of 2D and 3D Models in Application to Long Wave Motion and Its Interaction with the Structures**
ÇINAR G. E., GÜLER H. G., BAYKAL C., ARIKAWA T., ZAYTSEV A., YALÇINER A. C.
International Tsunami Symposium (ITS) 2017, Balvi, Indonesia, 21 - 25 August 2017
36. **Challenges in Numerical Assessment of Tsunami Impact on Composite and Rubble Mound Breakwaters**
GÜLER H. G., ARIKAWA T., BAYKAL C., YALÇINER A. C.
International Tsunami Symposium (ITS) 2017, Balvi, Indonesia, 21 - 25 August 2017
37. **Effect of Temporal Downscaling of Wind Data on Hindcasting Extreme Wave Events and Wind Power Density Studies over the Black Sea**
BAYKAL C., GÜLER H. G., ÖZYURT G., ak g. h., kirezci ç., YILMAZ M. T.
American Geophysical Union Fall Meeting 2016, 12 - 16 December 2016
38. **Numerical Modelling of Physical Model Experiments on Rubble Mound Breakwaters Under Tsunami Attack Using IHFOAM**
GÜLER H. G., Arikawa T., BAYKAL C., YALÇINER A. C.
35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016
39. **Numerical Modelling on Hydrodynamic Flow Conditions and Morphological Changes using XBeach near Manavgat River Mouth**
Demirci E., BAYKAL C., Güler I., Söğüt E., Ergin A.
35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016
40. **Tsunami induced scour around a monopile foundation**
Fuhrman D. R., Larsen B. E., BAYKAL C., Sumer B. M.
35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016
41. **Performance of Rubble Mound and Caisson Type Breakwaters under Extreme Waves**

Doğan G. G., ÖZYURT G., BAYKAL C., YALÇINER A. C.

35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016

42. **Numerical Modeling of Flow and Scour around a Vertical Cylindrical Pile in Combined Wave and Current**

BAYKAL C., Sumer B. M., Fuhrman D. R.

35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016

43. **Storm surge and flooding in Izmir bay and a suggestion for coastal protection stilling wave basin**

KISACIK D., KABOĞLU G., Keleş B. B., ÖZYURT G., BAYKAL C., Güler I.

35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016

44. **Effect of Temporal Downscaling Methods of Long Term Wind Data on the Design Wave Parameters in the Black Sea**

ÖZYURT G., GÜLER H. G., BAYKAL C., Ak G. H., Yılmaz M. T.

35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016

45. **Numerical Investigation of Long-Term Beach Evolution Around Shore-Normal Groins Using XBeach**

Söğüt E., BAYKAL C., Güler I., Ergin A., Demirci E.

35th International Conference on Coastal Engineering, Antalya, Turkey, 17 - 20 November 2016

46. **Damage Identification of Coastal Structures Using Image Processing Techniques**

PEKCAN O., ERSÖZ A. B., TEKE T., Doğan G. G., ÖZYURT G., BAYKAL C.

ICCE' 16 - 35th International Conference on Coastal Engineering, 17 - 20 November 2016

47. **Damage Identification of Coastal Structures Using Image Processing Techniques**

PEKCAN O., ERSÖZ A. B., TEKE T., DOĞAN G. G., ÖZYURT G., BAYKAL C.

35TH INTERNATIONAL CONFERENCE ON COASTAL ENGINEERING, 17 - 20 November 2016

48. **Effect of Temporal Downscaling Methods of Long Term Wind Data on the Design Wave Parameters in the Black Sea**

ÖZYURT G., GÜLER H. G., BAYKAL C., AK G. H., YILMAZ M. T.

International Conference on Coastal Engineering, 16 - 20 November 2016

49. **Şekillenmeyen Basamak Tipi Dalgakıranlar İle Şekillenebilen Dinamik Stabil Dalgakıranların Karşılaştırılması Örnek Bir Çalışma Ordu Giresun Havalimanı**

Atak D., Bezazoğlu S., BAYKAL C., ÖZYURT G., GÜLER H. G., Güler I., Ergin A.

Türkiye Deniz Bilimleri Konferansı, Ankara, Turkey, 31 May - 03 June 2016

50. **Taş Dolgu Ve Keson Tipi Dalgakıran Performanslarının Ekstrem Dalgalar Altında Fiziksel Model Deneyleri İle İncelenmesi**

Doğan G. G., ÖZYURT G., BAYKAL C.

Türkiye Deniz Bilimleri Konferansı, Ankara, Turkey, 31 May - 03 June 2016

51. **Comparison of Laboratory Experimental Data to XBeach Numerical Model Output**

Demirci E., BAYKAL C., Güler I., Söğüt E.

European Geosciences Union General Assembly 2016, Viyana, 17 - 22 April 2016

52. **Performance of Statistical Temporal Downscaling Techniques of Wind Speed Data Over Aegean Sea**

GÜLER H. G., BAYKAL C., ÖZYURT G., KISACIK D.

European Geosciences Union General Assembly 2016, Viyana, Austria, 17 - 22 April 2016

53. **Modelling of Performance of Caisson Type Breakwaters under Extreme Waves**

Doğan G. G., ÖZYURT G., BAYKAL C.

European Geosciences Union General Assembly 2016, Viyana, Austria, 17 - 22 April 2016

54. **Performance Statistical Temporal Downscaling Techniques of Wind Speed Data Over Aegean Sea**

GÜLER H. G., BAYKAL C., ÖZYURT G., KISACIK D.

European Geosciences Union General Assembly 2016, 17 - 22 April 2016

55. **NUMERICAL MODELLING OF SOLITARY WAVE EXPERIMENTS ON RUBBLE MOUND BREAKWATERS**

GÜLER H. G., arikawa T., BAYKAL C., YALÇINER A. C.

AGU, 12 - 16 December 2016

56. **Investigation on Hydrodynamic Flow Conditions at the Manavgat River Mouth in Combined Flooding of River Surface Runoff and Storm Surge**

Demirci E., BAYKAL C., ÖZYURT G., Söğüt E.

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Courses

Fluid Mechanics, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2014 - 2015
Statistical Analysis in Coastal Engineering, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Hydromechanics, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018
Coastal & Harbour Structures Design 2, Postgraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017
Fluid Mechanics, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015
Uncertainty and Data Analysis, Undergraduate, 2016 - 2017, 2015 - 2016

Advising Theses

Güler H. G., Baykal C., Hydraulic tests on a Xblocplus armoured coastal revetment, Postgraduate, A.MÜLAYİM(Student), 2024
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Yalçiner A. C., Baykal C., Experimental and numerical investigation on wave attenuation performance of a floating platform, Postgraduate, G.GAZALOĞLU(Student), 2023
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Baykal C., Development of a quasi-2DH model for numerical modeling of shoreline changes, Postgraduate, C.ÖZSOY(Student), 2021
Baykal C., Yalçiner A. C., PHYSICAL MODELING OF SOLID SPHERES' MOTION UNDER SOLITARY WAVE ATTACK, Postgraduate, K.DENİZ(Student), 2020
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Eronat A. H., Baykal C., Kombine akımlar altında oluşan sediman dalgacıkları: Gediz ve Büyük Menderes örnekleri, Doctorate, S.OĞUZ(Student), 2020
Özyurt Tarakcioğlu G., Baykal C., Application of suitability index to Turkish coasts for wave energy site selection, Postgraduate, M.ERKAM(Student), 2019
Özyurt Tarakcioğlu G., Baykal C., The coastal circulation model of Büyük Menderes river mouth and adjacent coastal areas, Postgraduate, M.SEDAT(Student), 2019
Baykal C., An experimental study on the performance of geotextile tubes in beach nourishment applications, Postgraduate, E.IŞIK(Student), 2019
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Contractual Researches

1. Baykal C., Özyurt Tarakcioğlu G., Güler H. G., Güler I., Yalçiner A. C., Ergin A., Eren Enerji Elektrik Üretim A.Ş., Eren Limanı İlave Dolgu Kıyı Tahkimatı ve Ana Mendirek Fiziksel Model Çalışmaları Araştırma Projesi, 2023 - 2023
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Research Areas

Civil Engineering, Coastal Sedimentation, Coastal Zone Management, Design of Coastal Structures, Coastal Engineering, Engineering and Technology