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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1982 - 1989

Post Graduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1979 - 1982

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1975 - 1979

Dissertations

Doctorate, Transmission and reflection of solitary waves from vertical porous structures, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1989

Post Graduate, Overtopping of Solitary waves over sea dykes, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 1982

Research Areas

Civil Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2009 - Continues

Advising Theses

Yalçiner A. C. , Baykal C., 3-Dimensional Numerical Circulation Modeling: A Case Study On The Coastal Processes In Gocek And Fethiye Bays, Turkey, Post Graduate, İ.Akdeniz(Student), 2018

YALÇINER A. C. , BAYKAL C., Comparison of 2d and 3d models in application to long wave motion and its interaction with a vertical wall, Post Graduate, G.EZGİ(Student), 2018

YALÇINER A. C. , 3-dimensional numerical circulation modeling: A case study on the coastal processes in Göcek and Fethiye bays, Post Graduate, İ.GÜREL(Student), 2018

YALÇINER A. C. , Advanced two- and three-dimensional tsunami models: Benchmarking and validation, Doctorate, D.VELİOĞLU(Student), 2017

YALÇINER A. C. , Comparison of different armour units of coastal structures in Rize-Artvin Airport under overtopping and stability conditions, Post Graduate, A.UĞURLU(Student), 2017

YALÇINER A. C. , ÖZYURT TARAKCIOĞLU G., Long waves generation and coastal amplification due to atmospheric pressure disturbances, Post Graduate, A.DUHA(Student), 2016

YALÇINER A. C. , ÖZYURT TARAKCIOĞLU G., Surge and coastal inundation study of september 2014 storm in Giresun, Black Sea, Post Graduate, D.CAN(Student), 2016

YALÇINER A. C. , SÜZEN M. L. , Tsunami risk assessment using GIS-based multi criteria decision analysis at Bakırköy, İstanbul, Post Graduate, D.TÜFEKÇİ(Student), 2016

YALÇINER A. C. , Modelling of long wave propagation using the radial basis function collocation method, Doctorate, C.GÜNGÖR(Student), 2015

YALÇINER A. C. , SÜZEN M. L. , High resolution tsunami vulnerability assessment by GIS-based multicriteria decision making analysis at Yenikapı-Istanbul, Post Graduate, Z.CEREN(Student), 2015

YALÇINER A. C. , Tsunami hazard analysis for Güllük Bay, Post Graduate, S.ACAR(Student), 2015

YALÇINER A. C. , Assessment of tsunami resilience of ports by high resolution numerical modeling: A case study for Haydarpaşa Port in the sea of Marmara, Post Graduate, B.AYTÖRE(Student), 2015

YALÇINER A. C. , ÖZYURT TARAKCIOĞLU G., Evaluation of wave statistics by using two wind data sets for Mediterranean Sea Region in Turkey, Post Graduate, Ç.POLAT(Student), 2015

YALÇINER A. C. , Modelling long term morphological change using Xbeach, Post Graduate, E.SÖĞÜT(Student), 2014

YALÇINER A. C. , A comparative study on the design of rubble mound breakwaters, Post Graduate, H.GÖKHAN(Student), 2014

YALÇINER A. C. , ÖZYURT TARAKCIOĞLU G., Assessment of sea level rise for coastal zone management: Vulnerability of Fethiye Bay, Post Graduate, A.DAMLA(Student), 2014

YALÇINER A. C. , Modeling of continuous dredge disposal to form a natural life island in the Gulf of Izmir, Post Graduate, G.ERTEK(Student), 2014

YALÇINER A. C. , Database development for tsunami information system, Post Graduate, K.KAAN(Student), 2014

YALÇINER A. C. , Assessment of inland tsunami parameters and their effects on morphology, Post Graduate, A.PAMUK(Student), 2014

YALÇINER A. C. , A model study on wave transmission through pile breakwaters, Post Graduate, Ç.BİLİCİ(Student), 2014

YALÇINER A. C. , Long waves in narrow enclosed basins, Post Graduate, O.BARAN(Student), 2012

YALÇINER A. C. , Water circulation and yacht carrying capacity of Fethiye Bay, Post Graduate, M.DZABİC(Student), 2012

YALÇINER A. C. , Development of a Web GIS-based tsunami inundation mapping service; a case study for marmara sea region, Post Graduate, A.AYÇA(Student), 2012

YALÇINER A. C. , Comparison of dispersive and non-dispersive numerical long wave models and harbor agitation, Post Graduate, A.ÖZBAY(Student), 2012

YALÇINER A. C. , Tsunami hydrodynamics in coastal zones, Doctorate, C.ÖZER(Student), 2012

YALÇINER A. C. , A model study on the stability of rubble mound coastal defense structure, Post Graduate, K.CİHAN(Student), 2011

YALÇINER A. C. , Database development for tsunami warning system in Mediterranean basin by tsunami modeling, Post Graduate, Y.ONAT(Student), 2011

YALÇINER A. C. , Wind-induced circulation and sediment transport in semi-enclosed basins; case study for Fethiye Bay, Doctorate, S.AKBAŞOĞLU(Student), 2011

YALÇINER A. C. , Transoceanic propagation of sumatra tsunamis and their effects on Maldives islands, Post Graduate, H.KOYUNCU(Student), 2010

YALÇINER A. C. , Evaluation and comparison of the wave energy potential in selected coastal regions in Turkey, Post Graduate, Ç.DUMAN(Student), 2010

Uzun C. N. , Yalçiner A. C. , Urban coastal settlements: Implementation of a coastal area assessment model in Iskenderun case, Doctorate, B.ÇAKIR(Student), 2010

YALÇINER A. C. , GIS based tsunami inundation maps; case studies from Mediterranean, Post Graduate, D.ITİR(Student), 2009

YALÇINER A. C. , The effects of the material density and dimensions of the landslide on the generated tsunamis, Post Graduate, İ.İNSEL(Student), 2009

YALÇINER A. C. , Wind and wind wave climate for Turkish coast and application to Aegean and the Mediterranean sea, Post Graduate, S.ALDOĞAN(Student), 2008

YALÇINER A. C. , Wind and wave climate in eastern Mediterranean basin, Post Graduate, A.UMUD(Student), 2008

YALÇINER A. C. , Wind and swell wave climate for the southern part of Black Sea, Post Graduate, U.BERKÜN(Student), 2007

YALÇINER A. C. , Investigation of hydrodynamic demands of tsunamis in inundation zone, Post Graduate, C.ÖZER(Student), 2007

YALÇINER A. C. , Wind and wind wave climate research along the southern part of Black Sea, Post Graduate, S.ÇABAN(Student), 2007

YALÇINER A. C. , Wind and swell wave climate for Turkish coasts of the Aegean and Mediterranean sea, Post Graduate, S.KEMAL(Student), 2007

YALÇINER A. C. , Numerical modeling of wave diffraction in one-dimensional shoreline change model, Post Graduate, C.BAYKAL(Student), 2006

YALÇINER A. C. , A case study on the stability of berm type coastal defense structures, Post Graduate, G.FIŞKIN(Student), 2004

YALÇINER A. C. , A case study on the submerged berm type coastal defense structures, Post Graduate, B.ÖZLER(Student), 2004

YALÇINER A. C. , A study for the development of seismic design specifications for coastal structures, Post Graduate, E.GÖZPINAR(Student), 2003

YALÇINER A. C. , An economical analysis of alternative Eastern Black Sea Coastal Highway defense structures, Post Graduate, U.İNANÇ(Student), 2003

YALÇINER A. C. , An experimental study on the stability of Eastern Black Sea Coastal Highway defense structures, Post Graduate, M.RIFAT(Student), 2003

YALÇINER A. C. , A Study on the coastal amplification of tsunamis near southwestern Turkey, Post Graduate, B.HABOĞLU(Student), 2002

YALÇINER A. C. , Comparison of analytical and numerical approaches for long wave runup, Post Graduate, E.DEMİRBAŞ(Student), 2002

YALÇINER A. C. , Tsunami propagation related to offshore subsidences, Post Graduate, R.ESRA(Student), 2001

YALÇINER A. C. , Two-layer numerical model for Tsunami generation and propagation, Post Graduate, İ.ÖZBAY(Student), 2000

YALÇINER A. C. , Underwater survey and archaeometrical analysis on coastal archaeology along the mediterranean coasts of Anatolia, Post Graduate, V.EVRİN(Student), 2000

YALÇINER A. C. , Long wave transformation and resonance study for the closed basins, Post Graduate, M.CAN(Student), 2000

YALÇINER A. C. , Comparison of stability of two and three layers antifer armoured breakwaters, Post Graduate, O.PULULAR(Student), 1999

YALÇINER A. C. , Transmission of waves through the breakwaters constructed with geotekstile tu bes, Post Graduate, S.PAMUKÇU(Student), 1999

YALÇINER A. C. , Application of numerical model for tsunami propagation to the Turkish coasts from Fethiye to Datça, Post Graduate, Ö.DURMUŞOĞLU(Student), 1998

YALÇINER A. C. , A 3D experimental study on the stability coefficients for breakwaters armoured with antifer blocks under nonbreaking waves, Post Graduate, İ.ÇAĞLAR(Student), 1998

YALÇINER A. C. , Numerical method for determination of periods of free oscillations of basins for earthquake induced waves, Post Graduate, Y.ÇAKIROĞLU(Student), 1997

YALÇINER A. C. , Computer aided design for sea outfalls, Post Graduate, O.YÖNEY(Student), 1996

YALÇINER A. C. , Reflection of solitary waves from porous structures with an impervious barrier behind, Post Graduate, A.ÖZAĞAÇ(Student), 1995

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

- **Tsunami Hazard Assessment on the Egyptian Coast of the Mediterranean**
Zaytsev A. I. , Babeyko A. Y. , Kurkin A. A. , Yalciner A. C. , Pelinovsky E. N.
IZVESTIYA ATMOSPHERIC AND OCEANIC PHYSICS, vol.55, pp.462-469, 2019 (Journal Indexed in SCI)
- **Performance Comparison of NAMI DANCE and FLOW-3D((R)) Models in Tsunami Propagation, Inundation and Currents using NTHMP Benchmark Problems**
Sogut D. V. , YALÇINER A. C.
PURE AND APPLIED GEOPHYSICS, vol.176, pp.3115-3153, 2019 (Journal Indexed in SCI)
- **The 20th July 2017 Bodrum-Kos Tsunami Field Survey**
Dogan G. G. , Annunziato A., Papadopoulos G. A. , GÜLER H. G. , YALÇINER A. C. , Cakir T. E. , Sozdinler C. O. , ULUTAŞ E., Arikawa T., SÜZEN M. L. , et al.
PURE AND APPLIED GEOPHYSICS, vol.176, pp.2925-2949, 2019 (Journal Indexed in SCI)
- **A numerical and experimental study of local hydrodynamics due to interactions between a solitary wave and an impervious structure**
Arabi M. G. , Sogut D. V. , Khosronejad A., YALÇINER A. C. , Farhadzadeh A.
COASTAL ENGINEERING, vol.147, pp.43-62, 2019 (Journal Indexed in SCI)
- **Generation of the 2018 Tsunami on Sulawesi Island: Possible Sources**
Zaytsev A. I. , Pelinovsky E. N. , Yalciiner A. C. , Susmoro H., Prasetya G., Hidayat R., Dolgikh G. I. , Dolgikh S. G. , Kurkin A. A. , Dogan G., et al.
DOKLADY EARTH SCIENCES, vol.486, pp.588-592, 2019 (Journal Indexed in SCI)
- **The September 28th, 2018, Tsunami In Palu-Sulawesi, Indonesia: A Post-Event Field Survey**
Omira R., Dogan G. G. , Hidayat R., Husrin S., Prasetya G., Annunziato A., Proietti C., Probst P., Paparo M. A. , Wronna M., et al.
PURE AND APPLIED GEOPHYSICS, vol.176, pp.1379-1395, 2019 (Journal Indexed in SCI)
- **Capturing Physical Dispersion Using a Nonlinear Shallow Water Model**
Kian R., Horrillo J., Zaytsev A., Yalciner A. C.
JOURNAL OF MARINE SCIENCE AND ENGINEERING, vol.6, 2018 (Journal Indexed in SCI)
- **Structural and Non-Structural Countermeasures and Awareness Studies After the Tsunami Disaster: Case of Japan**
GÜLER H. G. , Ozer Sozdinler C., Arikawa T., YALÇINER A. C.
TEKNIK DERGI, vol.29, pp.8605-8629, 2018 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Revised MeTHuVA method for assessment of tsunami human vulnerability of Bakirkoy district, Istanbul**
Tufekci D., SÜZEN M. L. , YALÇINER A. C. , Zaytsev A.
NATURAL HAZARDS, vol.90, pp.943-974, 2018 (Journal Indexed in SCI)
- **Inter-model analysis of tsunami-induced coastal currents**
Lynett P. J. , Gately K., Wilson R., Montoya L., Arcas D., Aytore B., Bai Y., Bricker J. D. , Castro M. J. , Cheung K. F. , et al.
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- **Possible worst-case tsunami scenarios around the Marmara Sea from combined earthquake and landslide sources**
Latcharote P., Suppasri A., Imamura F., Aytore B., YALÇINER A. C.
PURE AND APPLIED GEOPHYSICS, vol.173, pp.3823-3846, 2016 (Journal Indexed in SCI)
- **Risk Assessment and Design of Prevention Structures for Enhanced Tsunami Disaster Resilience (RAPSONI)/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.
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- **Effects of Harbor Shape on the Induced Sedimentation; L-Type Basin**
Kian R., Velioglu D., YALÇINER A. C. , Zaytsev A.

- JOURNAL OF MARINE SCIENCE AND ENGINEERING, vol.4, 2016 (Journal Indexed in SCI)
Performance Assessment of NAMI DANCE in Tsunami Evolution and Currents Using a Benchmark Problem
 Velioglu D., Kian R., YALÇINER A. C. , Zaytsev A.
- JOURNAL OF MARINE SCIENCE AND ENGINEERING, vol.4, 2016 (Journal Indexed in SCI)
Assessment of tsunami resilience of Haydarpasa Port in the Sea of Marmara by high-resolution numerical modeling
 AYTÖRE B., YALÇINER A. C. , Zaytsev A., ÇANKAYA Z. C. , Suzen M. L.
- EARTH PLANETS AND SPACE, vol.68, 2016 (Journal Indexed in SCI)
A new GIS-based tsunami risk evaluation: MeTHuVA (METU tsunami human vulnerability assessment) at Yenikapi, Istanbul
 ÇANKAYA Z. C. , SÜZEN M. L. , YALÇINER A. C. , KOLAT C., Zaytsev A., AYTÖRE B.
- EARTH PLANETS AND SPACE, vol.68, 2016 (Journal Indexed in SCI)
The possibility of tsunami in the Sea of Okhotsk caused by deep-focus earthquakes
 Zaytsev A. I. , Pelinovsky E. N. , Kurkin A. A. , Kostenko I. S. , YALÇINER A. C.
- IZVESTIYA ATMOSPHERIC AND OCEANIC PHYSICS, vol.52, pp.217-224, 2016 (Journal Indexed in SCI)
The influence of the Kuril Islands on the penetration of tsunamis into the Sea of Okhotsk (on the example of the Japan tsunami on March 11, 2011)
 Kostenko I. S. , Kurkin A. A. , Pelinovsky E. N. , YALÇINER A. C.
- IZVESTIYA ATMOSPHERIC AND OCEANIC PHYSICS, vol.52, pp.89-100, 2016 (Journal Indexed in SCI)
The depth effect of earthquakes on tsunami heights in the Sea of Okhotsk
 Zaytsev A., Kostenko I., Kurkin A., Pelinovsky E., YALÇINER A. C.
- TURKISH JOURNAL OF EARTH SCIENCES, vol.25, pp.289-299, 2016 (Journal Indexed in SCI)
Investigation of Hydrodynamic Parameters and the Effects of Breakwaters During the 2011 Great East Japan Tsunami in Kamaishi Bay
 Sozdinler C. O. , YALÇINER A. C. , Zaytsev A., Suppasri A., Imamura F.
- PURE AND APPLIED GEOPHYSICS, vol.172, pp.3473-3491, 2015 (Journal Indexed in SCI)
Performance of rubble mound breakwaters under tsunami attack, a case study: Haydarpasa Port, Istanbul, Turkey
 GÜLER H. G. , Arikawa T., Oei T., YALÇINER A. C.
- COASTAL ENGINEERING, vol.104, pp.43-53, 2015 (Journal Indexed in SCI)
Development of a Tsunami Inundation Map in Detecting Tsunami Risk in Gulf of Fethiye, Turkey
 Dilmen D. I. , Kemeç S., YALÇINER A. C. , Duzgun S., Zaytsev A.
- PURE AND APPLIED GEOPHYSICS, vol.172, pp.921-929, 2015 (Journal Indexed in SCI)
Investigation of Tsunami Hydrodynamic Parameters in Inundation Zones with Different Structural Layouts
 Sozdinler C. O. , YALÇINER A. C. , Zaytsev A.
- PURE AND APPLIED GEOPHYSICS, vol.172, pp.931-952, 2015 (Journal Indexed in SCI)
Historical and pre-historical tsunamis in the Mediterranean and its connected seas: Geological signatures, generation mechanisms and coastal impacts
 Papadopoulos G. A. , Gracia E., Urgeles R., Sallares V., De Martini P. M. , Pantosti D., Gonzalez M., YALÇINER A. C. , Mascle J., Sakellariou D., et al.
- MARINE GEOLOGY, vol.354, pp.81-109, 2014 (Journal Indexed in SCI)
A Possible Submarine Landslide and Associated Tsunami at the Northwest Nile Delta, Mediterranean Sea
 YALÇINER A. C. , Zaytsev A., Aytore B., Insel I., Heidarzadeh M., Kian R., Imamura F.
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 Papoulia J., Nicolich R., Makris J., Slejko D., Mascle J., Papadopoulos G., Anagnostou C., Camera L., Daskalaki E., Fasoulaka C., et al.
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● **The EU SEAHELLARC project: aims and main results**

Papoulia J., Makris J., Mascle J., Slejko D., YALÇINER A. C.

BOLLETTINO DI GEOFISICA TEORICA ED APPLICATA, vol.55, pp.241-248, 2014 (Journal Indexed in SCI)

● **Evaluation of tsunami scenarios for western Peloponnese, Greece**

YALÇINER A. C. , Gulkan P., Dilmen D. I. , Aytore B., Ayca A., Insel I., Zaytsev A.

BOLLETTINO DI GEOFISICA TEORICA ED APPLICATA, vol.55, pp.485-500, 2014 (Journal Indexed in SCI)

● **Initial stage of database development for tsunami warning system along Turkish coasts**

Onat Y., YALÇINER A. C.

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● **Lessons Learned from the 2011 Great East Japan Tsunami: Performance of Tsunami Countermeasures, Coastal Buildings, and Tsunami Evacuation in Japan**

Suppasri A., Shuto N., Imamura F., Koshimura S., Mas E., YALÇINER A. C.

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● **A proposal for new marine protected areas along the Turkish Black Sea coast**

ÖZTÜRK B., TOPALOĞLU B., KIDEYŞ A. E. , BAT L., KESKİN Ç., Sezgin M., ÖZTÜRK A. A. , YALÇINER A. C.

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● **Sensitivity Study of Hydrodynamic Parameters During Numerical Simulations of Tsunami Inundation**

Ozer C., YALÇINER A. C.

PURE AND APPLIED GEOPHYSICS, vol.168, pp.2083-2095, 2011 (Journal Indexed in SCI)

● **Extreme waves at Filyos, southern Black Sea**

Bilyay E., Ozbahceci B. O. , YALÇINER A. C.

NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.11, pp.659-666, 2011 (Journal Indexed in SCI)

● **Probabilistic tsunami hazard assessment at Seaside, Oregon, for near- and far-field seismic sources**

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● **The Tsunami on Sakhalin on August 2, 2007: Mareograph Evidence and Numerical Simulation**

Zaitsev A. I. , Kovalev D. P. , Kurkin A. A. , Levin B. V. , Pelinovskii E. N. , Chernov A. G. , YALÇINER A. C.

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● **Preliminary estimation of the tsunami hazards associated with the Makran subduction zone at the northwestern Indian Ocean**

Heidarzadeh M., Pirooz M. D. , Zaker N. H. , YALÇINER A. C.

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● **Responses of the stratified flows to their driving conditions-A field study**

YÜKSEL Y., AYAT AYDOĞAN B., Ozturk M. N. , Aydogan B., Guler I., Cevik E. O. , Yalciner A. C.

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● **The Nevelsk tsunami on August 2, 2007: Instrumental data and numerical modeling**

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● **Historical tsunami in the Makran Subduction Zone off the southern coasts of Iran and Pakistan and results of numerical modeling**

Heidarzadeh M., Pirooz M. D. , Zaker N. H. , YALÇINER A. C. , Mokhtari M., Esmaily A.

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● **A short cut numerical method for determination of periods of free oscillations for basins with irregular geometry and bathymetry**

Yalciner A. C. , Pelinovsky E. N.

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● **Determination and control of longshore sediment transport: A case study**

Ari H. A. , Yuksel Y., Cevik E. O. , Guler I., Yalciner A. C. , Bayram B.

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● **Understanding tsunamis, potential source regions and tsunami-prone mechanisms in the Eastern**

Mediterranean

Yolsal S., Taymaz T., YALÇINER A. C.

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