

## Personal Information

Email: kanoglu@metu.edu.tr

## Education Information

Doctorate, University Of Southern California, Aerospace Engineering, United States Of America 1990 - 1998

Post Graduate, İstanbul Teknik Üniversitesi, Makine Fakültesi, Turkey 1985 - 1988

Under Graduate, İstanbul Teknik Üniversitesi, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği Bölümü, Turkey 1980 - 1985

## Dissertations

Doctorate, The runup of long waves around piecewise linear bathymetries, University Of Southern California, Aerospace Engineering, 1998

Post Graduate, Düşey kanallarda doğal ısı taşınımı, İstanbul Teknik Üniversitesi, Makine Fakültesi, 1988

## Research Areas

Marine Sciences and Technology

## Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2001 - Continues

## Advising Theses

KANOĞLU U., Tsunami forecast modeling for Turkish coastlines, Post Graduate, N.SHARGHIVAND(Student), 2014

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

- **Introduction to "Twenty Five Years of Modern Tsunami Science Following the 1992 Nicaragua and Flores Island Tsunamis, Volume II"**  
KANOĞLU U., Tanioka Y., Okal E. A. , Baptista M. A. , Rabinovich A. B.  
PURE AND APPLIED GEOPHYSICS, vol.177, pp.1183-1191, 2020 (Journal Indexed in SCI)
- **The Chios, Greece Earthquake of 23 July 1949: Seismological Reassessment and Tsunami Investigations**  
Melis N. S. , Okal E. A. , Synolakis C. E. , Kalogeras I. S. , KANOĞLU U.  
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- **The 20th July 2017 Bodrum-Kos Tsunami Field Survey**  
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- **Introduction to "Twenty Five Years of Modern Tsunami Science Following the 1992 Nicaragua and Flores Island Tsunamis, Volume I"**  
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- PURE AND APPLIED GEOPHYSICS, vol.176, pp.2757-2769, 2019 (Journal Indexed in SCI)
- **New Analytical Solution for Nonlinear Shallow Water-Wave Equations**  
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PURE AND APPLIED GEOPHYSICS, vol.174, pp.3209-3218, 2017 (Journal Indexed in SCI)
  - **Inter-model analysis of tsunami-induced coastal currents**  
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OCEAN MODELLING, vol.114, pp.14-32, 2017 (Journal Indexed in SCI)
  - **Risk Assessment and Design of Prevention Structures for Enhanced Tsunami Disaster Resilience (RAPSODI)/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, 2016 (Journal Indexed in SCI)
  - **Development of MOST for Real-Time Tsunami Forecasting**  
Titov V., KANOĞLU U., Synolakis C.  
JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING, vol.142, 2016 (Journal Indexed in SCI)
  - **Tsunamis: bridging science, engineering and society**  
KANOĞLU U., Titov V., Bernard E., Synolakis C.  
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, vol.373, 2015 (Journal Indexed in SCI)
  - **The Fukushima accident was preventable**  
Synolakis C., KANOĞLU U.  
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES, vol.373, 2015 (Journal Indexed in SCI)
  - **Focusing of long waves with finite crest over constant depth**  
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  - **Introduction to "Tsunamis in the World Ocean: Past, Present, and Future. Volume II"**  
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  - **A New Tool for Inundation Modeling: Community Modeling Interface for Tsunamis (ComMIT)**  
Titov V. V. , Moore C. W. , Greenslade D. J. M. , Pattiaratchi C., Badal R., Synolakis C. E. , KANOĞLU U.  
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PURE AND APPLIED GEOPHYSICS, vol.168, pp.963-968, 2011 (Journal Indexed in SCI)
  - **Probabilistic tsunami hazard assessment at Seaside, Oregon, for near- and far-field seismic sources**  
Gonzalez F. I. , Geist E. L. , Jaffe B., KANOĞLU U., Mofjeld H., Synolakis C. E. , Titov V. V. , Arcas D., Bellomo D., Carlton D., et al.  
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  - **Validation and Verification of Tsunami Numerical Models**  
Synolakis C. E. , Bernard E. N. , Titov V. V. , KANOĞLU U., Gonzalez F. I.  
PURE AND APPLIED GEOPHYSICS, vol.165, pp.2197-2228, 2008 (Journal Indexed in SCI)
  - **Real-time experimental forecast of the Peruvian tsunami of August 2007 for US coastlines**  
Wei Y., Bernard E. N. , Tang L., Weiss R., Titov V. V. , Moore C., Spillane M., Hopkins M., KANOĞLU U.  
GEOPHYSICAL RESEARCH LETTERS, vol.35, 2008 (Journal Indexed in SCI)
  - **Wind set-down relaxation**  
Aydin B., Kanoglu U.  
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  - **Initial value problem solution of nonlinear shallow water-wave equations**

Kanoglu U., Synolakis C.

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- **Nonlinear evolution and runup-rundown of long waves over a sloping beach**

Kanoglu U.

JOURNAL OF FLUID MECHANICS, vol.513, pp.363-372, 2004 (Journal Indexed in SCI)

- **Long wave runup on piecewise linear topographies**

Kanoglu U., Synolakis C.

JOURNAL OF FLUID MECHANICS, vol.374, pp.1-28, 1998 (Journal Indexed in SCI)

- **RUNUP OF SOLITARY WAVES ON A CIRCULAR ISLAND**

LIU P., CHO Y., BRIGGS M., KANOGLU U., SYNOLAKIS C.

JOURNAL OF FLUID MECHANICS, vol.302, pp.259-285, 1995 (Journal Indexed in SCI)

## Book & Book Chapters

- **Tsunami Dynamics, Forecasting, and Mitigation**

KÂNOĞLU U., SYNOLAKIS C.

in: Coastal and Marine Hazards Risks and Disasters Hazards and Disasters Series, Series Editor: John F. Shroder

- Volume Editors: Jean T. Ellis, Douglas J. Sherman, Editor, Elsevier, Amsterdam, pp.15-58, 2015

## Refereed Congress / Symposium Publications in Proceedings

- **THE JULY 20, 2017 BODRUM/KOS EARTHQUAKE AND TSUNAMI: FIELD SURVEYS, LESSONS and MODELING**

YALÇINER A. C. , ANNUNZIATO A., PAPADOPOULOS G. A. , DOĞAN G. G. , GÜLER H. G. , ÖZER SÖZDİNLER C., ULUTAŞ E., ARIKAWA T., SÜZEN M. L. , KANOĞLU U., et al.

International Conference on Coastal Engineering 2018, Baltimore, United States Of America, 29 July - 04 August 2018

- **New Formulations for Tsunami Runup Estimation**

KÂNOĞLU U., AYDIN B., Ceylan N.

2017 American Geophysical Union (AGU) Fall Meeting, New Orleans, United States Of America, 11 - 15 December 2017

- **Preliminary Assessment of Hazard from Tectonic Tsunamis in the Eastern Mediterranean**

AYDIN B., Bayazitoğlu Ö., Shargivand N., KÂNOĞLU U.

2017 American Geophysical Union (AGU) Fall Meeting, New Orleans, United States Of America, 11 - 15 December 2017

- **Comparison of maximum runup through analytical and numerical approaches for different fault parameters estimates**

WRONNA M., BAPTISTA M. A. , KÂNOĞLU U., MIRANDA J. M.

2017 American Geophysical Union Fall Meeting, New Orleans, United States Of America, 11 - 15 December 2017

- **The Bodrum-Kos strong (Mw6.6) earthquake and the associated tsunami of 20 July 2017: results of post-event field surveys**

YALÇINER A. C. , ANNUNZIATO A., PAPADOPOULOS G., DOĞAN G. G. , GÜLER H. G. , ÇAKIR T. E. , ÖZER SÖZDİNLER C., ULUTAŞ E., TARO A., SÜZEN M. L. , et al.

ITS 2017 – International Tsunami Symposium, Balvi, Indonesia, 21 - 25 August 2017

- **New Design Code for Coastal Structures in Turkey in respect to Marine Extreme Events including Tsunami**

YUKSEL Y., YUKSEL T., GÜLER I., ERGİN A., YALÇINER A. C. , KÂNOĞLU U.

26th International Tsunami Symposium ITS 2017, Balvi, Latvia, 21 - 23 August 2017

- **Inundation and Runup caused by two transatlantic tsunamis in the 18th century in Cadiz**

WRONNA M., BAPTISTA M. A. , KÂNOĞLU U., MIRANDA J. M.

26th International Tsunami Symposium ITS 2017, 21 - 25 August 2017

- **Long wave maximum runup and propagation features with respect to earthquake source parameters**

Shargivand N., KÂNOĞLU U.

26th International Tsunami Symposium ITS 2017, Balvi, Latvia, 21 - 25 August 2017

- **Validation of the 2D 1D runup estimation methodology with field data of the 2010 Maule tsunami**

Wronna M., KÂNOĞLU U., Baptista M. A.

American Geophysical Union Fall Meeting, 12 - 16 December 2016

- **The Global Tsunami Model GTM**

Lovholt F., Thio H. K. , Carl H., Jascha P., Lorito S., Basili R., Volpe M., Romano F., Selva J., Piatanesi A., et al.

American Geophysical Union Fall Meeting, 12 - 16 December 2016

- **Tsunami focusing and leading amplitude**

KÂNOĞLU U.

American Geophysical Union Fall Meeting, 12 - 16 December 2016

- **Tsunamis Leading wave**

KÂNOĞLU U.

International Conference on Coastal Engineering, 17 - 19 November 2016

- **Relate the earthquake parameters to the maximum tsunami runup**

Shargivand N., KÂNOĞLU U.

European Geosciences Union, 17 - 22 April 2016

- **Case study of small harbor excitation under storm and tsunami conditions**

Synolakis C., Maravelakis N., Kalligeris N., Skanavis V., KÂNOĞLU U., YALÇINER A. C. , Lynett P.

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

- **How prepared individuals and communities are for evacuation in tsunami prone areas in Europe Findings from the ASTARTE EU Programme**

Lavigne F., Grancher D., Goeldner Gianella L., KARANCI A. N. , Doğulu N., KÂNOĞLU U., ve d.

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

- **Tsunami focusing and leading wave height**

KÂNOĞLU U.

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

- **Benchmarking on tsunami currents with ComMIT**

SHARGHIVAND N., KÂNOĞLU U.

American Geophysical Union Fall Meeting, San-Francisco, Costa Rica, 14 - 18 December 2015

- **Leading wave amplitude of a tsunami**

KÂNOĞLU U.

American Geophysical Union Fall Meeting, San-Francisco, Costa Rica, 14 - 18 December 2015

- **Post Fukushima tsunami hazard assessment**

KÂNOĞLU U., SYNOLAKIS C.

Post-SMIRT23 SEMİNAR, İstanbul, Turkey, 21 - 23 October 2015

- **Tsunami forecast modeling development for Turkish coastlines**

SHARGHIVAND N., KÂNOĞLU U.

International Union of Geodesy and Geophysics, Prag, Czech Republic, 22 June - 02 July 2015

- **Analytical modeling of nonlinear evolution of long waves**

AYDIN B., KÂNOĞLU U.

International Union of Geodesy and Geophysics, Prag, Czech Republic, 22 June - 02 July 2015

- **Tsunami hazard analysis for Gulluk Bay Turkey**

ACAR S., AYTÖRE B., KÂNOĞLU U., YALÇINER A. C.

International Union of Geodesy and Geophysics, Prag, Czech Republic, 22 June - 02 July 2015

- **Tsunamis bridging science engineering and society**

KÂNOĞLU U., TITOV V., BERNARD E., SYNOLAKIS C.

International Union of Geodesy and Geophysics, Prag, Czech Republic, 22 June - 02 July 2015

- **Fukushima nuclear power plant accident was preventable**

KÂNOĞLU U., SYNOLAKIS C.

European Geosciences Union, Viyena, Austria, 12 - 17 April 2015, vol.17

- **TSUNAMI HYDRODYNAMIC MODELING: STANDARDS AND GUIDELINES**

Synolakis C., KANOĞLU U.

Symposium held in Honor of Philip LF Liu 60th Birthday on Nonlinear Wave Dynamics, New-York, United States Of America, 01 September 2006, pp.127-129

- **NONLINEAR EVOLUTION OF LONG WAVES OVER A SLOPING BEACH**

KANOĞLU U.

3rd International Workshop on Long-Wave Runup Models, California, United States Of America, 11 - 12 June 2004, vol.10, pp.237-241

## **Activities in Scientific Journals**

Pure And Applied Geophysics, Special Issue Editor, 2018 - Continues

## **Citations**

Total Citations (WOS):1153

h-index (WOS):13