

# Prof. İSMAİL YÜCEL

## Personal Information

**Office Phone:** [+90 312 210 2487](tel:+903122102487)

**Email:** [iyucel@metu.edu.tr](mailto:iyucel@metu.edu.tr)

**Web:** <https://avesis.metu.edu.tr/iyucel>

**Address:** İnşaat Müh. K4 Binası

## International Researcher IDs

ScholarID: RGHnl3YAAAAJ

ORCID: 0000-0001-9073-9324

Publons / Web Of Science ResearcherID: AAF-3210-2019

ScopusID: 57204345432

Yoksis Researcher ID: 164861

## Education Information

Doctorate, University of Arizona, United States Of America 1997 - 2001

Postgraduate, University of Arizona, United States Of America 1995 - 1997

Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Meteoroloji Mühendisliği Bölümü, Turkey 1989 - 1993

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Assimilation of satellite-derived cloud cover into the Regional Atmospheric Model System (RAMS) and its impacts on modeled surface fields, University Of Arizona, 2001

Postgraduate, Evaluating the ETA model against observations at selected U.S. sites, University Of Arizona, 1997

## Research Areas

Atmospheric Sciences and Meteorological Engineering, Hydrology-Hydrometeorology, Climate, Climate Change and Climate Modeling, Meteorological Disasters, Flood-Storm-Avalanche-Drought Analysis, Civil Engineering, Hydraulic, Surface Water Engineering, Hydrology, Engineering and Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2018 - Continues  
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2009 - 2018

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2006 -

2008

Assistant Professor, Hampton University, 2002 - 2006

Lecturer, University of Arizona, 1997 - 2002

## Academic and Administrative Experience

Member of Programme Steering Committee, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2016 - Continues

## Courses

HYDROCLIMATOLOGY, Doctorate, 2019 - 2020

## Advising Theses

Yücel İ., Identifying impacts of climate change on water resources using CMIP6 simulations: Havran basin case, Postgraduate, Y.ÇAKTU(Student), 2022

Yücel İ., Calibration and evaluation of WRF-hydro modeling system for extreme runoff simulations: Use of high-resolution sea surface temperature (SST) data, Postgraduate, B.MİNA(Student), 2022

Bilgin C. C., Yücel İ., How Will Climate Change Impact The Protected Area Network in Turkey?, Postgraduate, D.EROL(Student), 2021

Yücel İ., EVALUATION OF NUMERICAL WEATHER PREDICTION MODELS FOR FLASH FLOOD WARNINGS IN TURKEY, Postgraduate, M.AKSOY(Student), 2020

Yücel İ., Kentel Erdoğan E., SENSITIVITY AND SEA SURFACE TEMPERATURE ANALYSES OF WRF MODEL FOR PREDICTING HEAVY RAINFALL EVENTS OBSERVED IN EASTERN BLACK SEA AND MEDITERRANEAN REGIONS OF TURKEY, Postgraduate, H.PİLATİN(Student), 2020

Yücel İ., ASSESSMENT OF CHANGES IN CLIMATE INDICES OF THE MEDITERRANEAN CLIMATE REGION OF TURKEY, Postgraduate, İ.ÇETİNKAYA(Student), 2020

Sarı R., Yücel İ., Energy efficiency and rebound effect for household gas consumption: Evidence from Ankara, Doctorate, Z.İLKNUR(Student), 2019

Sarı R., Yücel İ., Life cycle assessment of wind power for electricity generation in Pakistan, Postgraduate, S.KHALID(Student), 2019

YÜCEL İ., YILMAZ A., Climate change and futureproofing infrastructure: Etimesgut, Ankara case study, Doctorate, S.ORUÇ(Student), 2018

YÜCEL İ., Drought analysis using CORDEX simulations over the mediterranean climate regions of Turkey, Postgraduate, A.YILDIRIM(Student), 2018

Yücel İ., Sarı R., Effects of numerical weather predictions on wind power forecasts, Postgraduate, İ.İŞİK(Student), 2018

YÜCEL İ., YOZGATLIGİL C., Impacts of climate nonstationarities on hydroclimatological variables in turkey, Doctorate, R.AZIZ(Student), 2018

YÜCEL İ., SARI R., The impact of climate change on agricultural production in mediterranean countries, Doctorate, M.UFUK(Student), 2015

SARI R., YÜCEL İ., The Impact of climate change on agricultural production in Mediterranean countries, Doctorate, M.Ufuk(Student), 2015

YÜCEL İ., Uncertainty assessment in projection of the extreme river flows: The case of Omerli catchment, Istanbul, Postgraduate, B.EREN(Student), 2015

YÜCEL İ., YILMAZ A., Uncertainty assessment in projection of the extreme river flows, the case of Ömerli catchment, İstanbul, Postgraduate, B.Eren(Student), 2015

Akyürek S. Z., Yücel İ., Effects of climate change on water resources in Omerli basin, Doctorate, F.KARA(Student), 2014

YÜCEL İ., Improving remotely-sensed precipitation estimates over mountainous regions, Postgraduate, M.AKÇELİK(Student), 2013  
YÜCEL İ., Impacts of climate change on water resources on eastern mountainous region of Turkey, Postgraduate, A.GÜVENTÜRK(Student), 2013  
YÜCEL İ., Analyses of flood events using regional hydrometeorological modeling system, Postgraduate, A.ÖNEN(Student), 2013

## **Jury Memberships**

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, August, 2019  
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, November, 2018

## **Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **High-Resolution Climate Simulations Over the Eastern Mediterranean Black Sea Region Using the Pseudo-Global Warming Method With a CMIP6 Ensemble**  
Bağcı S. Ç., YÜCEL İ., YILMAZ M. T., Şen O. T., Ludwig P.  
Journal of Geophysical Research: Atmospheres, vol.129, no.10, 2024 (SCI-Expanded)
- II. **Historical variability of Coupled Model Intercomparison Project Version 6 (CMIP6)-driven surface winds and global reanalysis data for the Eastern Mediterranean**  
Çetin I., YÜCEL İ., YILMAZ M. T., ÖnoI B.  
Theoretical and Applied Climatology, vol.155, no.5, pp.4101-4121, 2024 (SCI-Expanded)
- III. **The Impact of Climate Change on Construction Activity Performance**  
Oruc S., Dikbas H. A., Gumus B., YÜCEL İ.  
Buildings, vol.14, no.2, 2024 (SCI-Expanded)
- IV. **Investigating the comparative utility of ECMWF precipitation forecasts as an alternative to reanalysis data**  
Amjad M., YILMAZ M. T., YÜCEL İ., YILMAZ K. K., Öztürk K.  
Hydrological Sciences Journal, vol.69, no.8, pp.1060-1081, 2024 (SCI-Expanded)
- V. **Evaluation of the fully coupled WRF and WRF-Hydro modelling system initiated with satellite-based soil moisture data**  
Duzenli E., YÜCEL İ., YILMAZ M.  
HYDROLOGICAL SCIENCES JOURNAL, vol.69, no.6, pp.691-708, 2024 (SCI-Expanded)
- VI. **An explainable two-stage machine learning approach for precipitation forecast**  
Senocak A. U. G., YILMAZ M. T., KALKAN S., YÜCEL İ., Amjad M.  
Journal of Hydrology, vol.627, 2023 (SCI-Expanded)
- VII. **Assessment of changes in return levels of historical and projected high and low flows of upper Euphrates basin in Turkey using nonstationary models**  
Aziz R., YÜCEL İ.  
Environmental monitoring and assessment, vol.195, no.5, pp.576, 2023 (SCI-Expanded)
- VIII. **A sound potential against energy dependency and climate change challenges: Floating photovoltaics on water reservoirs of Turkey**  
Kulat M. I., TOSUN K., Karaveli A. B., YÜCEL İ., AKINOĞLU B. G.  
RENEWABLE ENERGY, vol.206, pp.694-709, 2023 (SCI-Expanded)
- IX. **CMIP6 Earth System Models Project Greater Acceleration of Climate Zone Change Due To Stronger Warming Rates**  
Bayar A. S., YILMAZ M. T., YÜCEL İ., Dirmeyer P.  
Earth's Future, vol.11, no.4, 2023 (SCI-Expanded)
- X. **Impacts of Climate Change on Extreme Climate Indices in Türkiye Driven by High-Resolution**

## **Downscaled CMIP6 Climate Models**

Gumus B., Oruc S., Yücel I., Yilmaz M. T.

SUSTAINABILITY, vol.15, pp.1-38, 2023 (SCI-Expanded)

- XI. **Time-independent bias correction methods compared with gauge adjustment methods in improving radar-based precipitation estimates**  
Yousefi K. P., YILMAZ M. T., Öztürk K., YÜCEL İ., YILMAZ K. K.  
Hydrological Sciences Journal, vol.68, no.14, pp.1963-1983, 2023 (SCI-Expanded)
- XII. **Spatiotemporal trends in daily and subdaily rainfall extremes and return levels in Turkey**  
Albayrak D., Şen Ö. L., YÜCEL İ.  
INTERNATIONAL JOURNAL OF CLIMATOLOGY, vol.42, no.16, pp.10337-10352, 2022 (SCI-Expanded)
- XIII. **Investigation of the Effect of Climate Change on Extreme Precipitation: Capital Ankara Case**  
Oruc S., Yücel İ., Yilmaz A.  
Teknik Dergi, vol.33, no.2, pp.1-31, 2022 (SCI-Expanded)
- XIV. **Sensitivity of WRF-derived hydrometeorological extremes to sea surface temperatures in regions with complex topography and diverse climate**  
Pilatin H., YÜCEL İ., DÜZENLİ E., YILMAZ M. T.  
Atmospheric Research, vol.264, 2021 (SCI-Expanded)
- XV. **Improving WRF-Hydro runoff simulations of heavy floods through the sea surface temperature fields with higher spatio-temporal resolution**  
Kilicarslan B. M., YÜCEL İ., Pilatin H., DÜZENLİ E., YILMAZ M. T.  
HYDROLOGICAL PROCESSES, vol.35, no.9, 2021 (SCI-Expanded)
- XVI. **Intercomparison of the expected change in the temperature and the precipitation retrieved from CMIP6 and CMIP5 climate projections: A Mediterranean hot spot case, Turkey**  
Bağçacı S. Ç., Yücel İ., Düzenli E., Yilmaz M. T.  
ATMOSPHERIC RESEARCH, vol.256, 2021 (SCI-Expanded)
- XVII. **Assessing nonstationarity impacts for historical and projected extreme precipitation in Turkey**  
Aziz R., YÜCEL İ.  
THEORETICAL AND APPLIED CLIMATOLOGY, vol.143, pp.1213-1226, 2021 (SCI-Expanded)
- XVIII. **Evaluating the performance of a WRF initial and physics ensemble over Eastern Black Sea and Mediterranean regions in Turkey**  
Düzenli E., Yücel İ., Pilatin H., Yilmaz M. T.  
Atmospheric Research, vol.248, 2021 (SCI-Expanded)
- XIX. **Nonstationarity impacts on frequency analysis of yearly and seasonal extreme temperature in Turkey**  
Aziz R., YÜCEL İ., YOZGATLIGİL C.  
ATMOSPHERIC RESEARCH, vol.238, 2020 (SCI-Expanded)
- XX. **Performance evaluation of satellite- and model-based precipitation products over varying climate and complex topography**  
Amjad M., YILMAZ M. T., YÜCEL İ., YILMAZ K. K.  
JOURNAL OF HYDROLOGY, vol.584, 2020 (SCI-Expanded)
- XXI. **Evaluation of Remotely-Sensed and Model-Based Soil Moisture Products According to Different Soil Type, Vegetation Cover and Climate Regime Using Station-Based Observations over Turkey**  
Bulut B., YILMAZ M. T., Afshar M., Sorman A. U., YÜCEL İ., Cosh M. H., Simsek O.  
REMOTE SENSING, vol.11, no.16, 2019 (SCI-Expanded)
- XXII. **Assessing different sources of uncertainty in hydrological projections of high and low flows: case study for Omerli Basin, Istanbul, Turkey**  
Engin B. E., Yücel İ., Yilmaz A.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.189, 2017 (SCI-Expanded)
- XXIII. **Inter-comparison of statistical downscaling methods for projection of extreme flow indices across Europe**  
Hundecha Y., Sunyer M. A., Lawrence D., Madsen H., Willems P., Buerger G., Kriauciuniene J., Loukas A., Martinkova

M., Osuch M., et al.

JOURNAL OF HYDROLOGY, vol.541, pp.1273-1286, 2016 (SCI-Expanded)

- XXIV. **Climate change impacts on extreme precipitation of water supply area in Istanbul: use of ensemble climate modelling and geo-statistical downscaling**  
Kara F., Yücel İ., Akyurek Z.  
HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, vol.61, pp.2481-2495, 2016 (SCI-Expanded)
- XXV. **Assessment of a flash flood event using different precipitation datasets**  
YÜCEL İ.  
NATURAL HAZARDS, vol.79, no.3, pp.1889-1911, 2015 (SCI-Expanded)
- XXVI. **Climate change effects on extreme flows of water supply area in Istanbul: utility of regional climate models and downscaling method**  
Kara F., Yücel İ.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.187, 2015 (SCI-Expanded)
- XXVII. **Calibration and evaluation of a flood forecasting system: Utility of numerical weather prediction model, data assimilation and satellite-based rainfall**  
Yücel İ., Onen A., Yılmaz K. K., Gochis D. J.  
JOURNAL OF HYDROLOGY, vol.523, pp.49-66, 2015 (SCI-Expanded)
- XXVIII. **Climate change impacts on snowmelt runoff for mountainous transboundary basins in eastern Turkey**  
YÜCEL İ., Guventurk A., Şen Ö. L.  
INTERNATIONAL JOURNAL OF CLIMATOLOGY, vol.35, no.2, pp.215-228, 2015 (SCI-Expanded)
- XXIX. **Inter-comparison of statistical downscaling methods for projection of extreme precipitation in Europe**  
Sunyer M. A., Hundedcha Y., Lawrence D., Madsen H., Willems P., Martinkova M., Vormoor K., Buerger G., Hanel M., Kriauciuniene J., et al.  
HYDROLOGY AND EARTH SYSTEM SCIENCES, vol.19, pp.1827-1847, 2015 (SCI-Expanded)
- XXX. **Evaluating a mesoscale atmosphere model and a satellite-based algorithm in estimating extreme rainfall events in northwestern Turkey**  
Yücel İ., Onen A.  
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.14, pp.611-624, 2014 (SCI-Expanded)
- XXXI. **Evaluating the hydro-estimator satellite rainfall algorithm over a mountainous region**  
YÜCEL İ., Kuligowski R. J., Gochis D. J.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.32, no.22, pp.7315-7342, 2011 (SCI-Expanded)
- XXXII. **Effects of implementing satellite observed aerosols into a mesoscale atmosphere model**  
Bay E., Yucel I., Kovacs T., McCormick M. P.  
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.32, no.19, pp.5505-5525, 2011 (SCI-Expanded)
- XXXIII. **Effects of implementing MODIS land cover and albedo in MM5 at two contrasting US regions**  
Yucel I.  
JOURNAL OF HYDROMETEOROLOGY, vol.7, no.5, pp.1043-1060, 2006 (SCI-Expanded)
- XXXIV. **Short-term performance of MM5 with cloud-cover assimilation from satellite observations**  
Yucel I., Shuttleworth W. J., GAO X., SOROOSHIAN S.  
Monthly Weather Review, vol.131, pp.1797-1810, 2003 (SCI-Expanded)
- XXXV. **Impact of ingesting satellite-derived cloud cover into the Regional Atmospheric Modeling System**  
Yucel I., Shuttleworth W., Pinker R., Lu L., Sorooshian S.  
MONTHLY WEATHER REVIEW, vol.130, no.3, pp.610-628, 2002 (SCI-Expanded)
- XXXVI. **Preface paper to the Semi-Arid Land-Surface-Atmosphere (SALSA) Program special issue**  
Goodrich D., CHEHBOUNI A., GOFF B., MACNISH B., MADDOCK T., MORAN S., Shuttleworth W., Williams D., WATTS C., Hipps L., et al.  
Agricultural and Forest Meteorology, vol.105, pp.3-20, 2000 (SCI-Expanded)
- XXXVII. **Evaluating NCEP eta model-derived data against observations**

## Articles Published in Other Journals

- I. **Added utility of temperature zone information in remote sensing-based large scale crop mapping**  
Donmez E., YILMAZ M. T., YÜCEL İ.  
Remote Sensing Applications: Society and Environment, vol.35, 2024 (ESCI)
- II. **Investigating the Effect of Climate Change on Stormwater Networks: Capital Ankara Case**  
Oruç s., YÜCEL İ., YILMAZ A.  
Turkish Journal of water science and management, 2020 (Peer-Reviewed Journal)
- III. **Bir taşkın tahmin sisteminin değerlendirilmesi Nümerik hava tahmin modeli veri asimilasyonu ve uydu yağışlarının kullanımı**  
YÜCEL İ., YILMAZ K. K., önen a.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Hidrometeoroloji: Analiz ve Tahminler**  
YÜCEL İ.  
in: Türkiye'nin Geçmişten Günümüze Meteoroloji Politikaları ve Stratejileri, Pakdemirli Bekir, Coşkun Volkan Mutlu, Karaca Mehmet, Bayraktar Zülfiyar, Takmaz Sefa, Editor, Akçağ, Ankara, pp.167-185, 2020

## Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of a Hydro-Meteorological Model System for Flood Forecasting of a Mediterranean Basin in Turkey**  
Kılıçarslan B., Duzenli E., Pilatin H., YÜCEL İ., YILMAZ M. T.  
EGU General Assembly 2020, 4 - 08 May 2020
- II. **Evaluation of the performance of WRF model in extreme precipitation estimation concerning the changing model configuration and the spatial and temporal variations**  
Duzenli E., Pilatin H., YÜCEL İ., Kılıçarslan B., YILMAZ M. T.  
EGU General Assembly 2020, 4 - 08 May 2020
- III. **Production of a High-Resolution Improved Radar Precipitation Estimation Map Using Gauge Adjustment Bias Correction Methods**  
Yousefi K. P., YILMAZ M. T., Ozturk K., YÜCEL İ., YILMAZ K. K.  
EGU General Assembly 2020, 4 - 08 May 2020
- IV. **Evaluation of gauge adjustment methods in improving radar precipitation estimation quality over Antalya radar in Turkey.**  
Yousufi K. P., YILMAZ M. T., Ozturk K., YÜCEL İ., YILMAZ K. K.  
IV. Meteorolojik Uzaktan Algılama Sempozyumu, Turkey, 11 - 15 November 2019
- V. **Hidrometeorolojik model sisteminde uydu verisinden elde edilmiş bulut asimilasyonu**  
Yücel İ.  
UZALMET2019, Antalya, Turkey, 11 - 15 November 2019, pp.1
- VI. **İklim Değişikliğinin Kuzey Ege Havzası Su Potansiyeline Olan Etkisinin Araştırılması**  
YILMAZ M. T., bulut b., Afshar M., YÜCEL İ., Aras M., Ozaltın A. M., Dogan N., Barkis N., Tanir T., Ozcam B.  
10. Ulusal Hidroloji Kongresi, Turkey, 9 - 12 October 2019
- VII. **TMPA VE ECMWF yağış verilerinin yer gözlem verileriyle doğrulanması**

amjad m., Duzenli E., Afshar M., bulut b., Senocak A. U. G., YILMAZ K. K., YILMAZ M. T., YÜCEL İ.

10. Ulusal Hidroloji Kongresi., Turkey, 9 - 12 October 2019

- VIII. **Drought Analysis using CORDEX Simulations over the Mediterranean Climate Regions of Turkey**  
Yıldırım A., Yücel İ.  
ATMOS 2019, İstanbul, Turkey, 23 October 2019, pp.213-221
- IX. **Nonstationarity Impacts on Extreme Daily Precipitation and Temperature in Turkey**  
Aziz R., Yücel İ.  
9 th International Symposium on Atmospheric Sciences – ATMOS 2019, İstanbul, Turkey, 23 October 2019, pp.201-212
- X. **İKLİM DEĞİŞİKLİĞİ, EKSTREM YAĞIŞLAR VE ETKİLERİ: ETİMESGUT, ANKARA ÖRNEĞİ**  
Oruç S., Yücel İ., Yılmaz A.  
10. Ulusal Hidroloji Kongresi, Muğla, Turkey, 9 - 12 October 2019, pp.335-341
- XI. **Uncertainty Assessment of Satellite- and Model-based Precipitation Products over Complex Terrain of Turkey**  
amjad m., YILMAZ M. T., YÜCEL İ., YILMAZ K. K.  
EGU General Assembly 2019, 7 - 12 April 2019
- XII. **HAVZA ÖLÇEĞİNDE TEMSİL EDİCİ ALANSAL ORTALAMA BUHARLAŞMA-TERLEME MİKTARININ LANDSAT GÖRÜNTÜLERİNDEN ELDE EDİLMESİ**  
Yanmaz D., Akyürek S. Z., Yücel İ.  
VII. UZAKTAN ALGILAMA CBS SEMPOZYUMU, Eskişehir, Turkey, 18 - 21 September 2018, pp.580-589
- XIII. **NONSTATIONARITIES IN OBSERVED AND PROJECTED STREAMFLOWS OF UPPER EUPHRATES BASIN**  
Aziz R., Yücel İ.  
Scientific congress of the turkish national union of geodesy and geophysics, İzmir, Turkey, 30 May - 02 June 2018, pp.290-294
- XIV. **ASSESSING DROUGHT BY STANDARDIZED PRECIPITATION INDEX WITH OBSERVATION AND CORDEX DATA IN TURKEY'S MEDITERRANEAN REGION**  
Poyraz A., Yücel İ.  
Scientific congress of the turkish national union of geodesy and geophysics, İzmir, Turkey, 30 May - 02 June 2018, pp.314-318
- XV. **Non-stationarities in observed and projected streamflow extremes for upper Euphrates basin**  
Aziz R., Yücel İ., Poyraz A.  
European Geophysical Union (EGU 2018), Vienna, Austria, 8 - 13 April 2018, pp.1
- XVI. **Inter-comparison and Accuracy Assessment of Satellite and Model Precipitation Products**  
amjad m., YILMAZ M. T., YÜCEL İ., YILMAZ K. K.  
EGU General Assembly 2018, 8 - 13 April 2018
- XVII. **Assessing Drought Using Cordex Ensemble Climate Models In Mediterranean Climate Region Of Turkey**  
poyraz a., YÜCEL İ., aziz r., YILMAZ M. T.  
Eurepean Geophysical Union Congress (EGU) 2018, 8 - 13 April 2018
- XVIII. **IMPACTS OF CLIMATE NONSTATIONARITIES ON HYDROCLIMATOLOGICAL EXTREMES IN TURKEY**  
Aziz r., YÜCEL İ.  
8th International Atmospheric Sciences Symposium – ATMOS 2017, 1 - 04 November 2017
- XIX. **ASSESSING DROUGHT BY STANDARDIZED PRECIPITATION INDEX WITH OBSERVATION AND RCM DATA IN TURKEY'S MEDITERRANEAN REGION**  
poyraz a., YÜCEL İ.  
8th International Atmospheric Sciences Symposium – ATMOS 2017, 1 - 04 November 2017
- XX. **TRMM VE GPM UZAKTAN ALGILAMA VE ECMWF NUMERİK MODEL KAYNAKLI YAĞIŞ VERİLERİNİN DOĞRULANMASI**  
YILMAZ M. T., amjad m., YÜCEL İ., bulut b.  
UZALMET III. Meteorolojik Uzaktan Algılama Sempozyumu, Turkey, 16 - 19 October 2017
- XXI. **Establishing a Critical Zone Observatory site in Turkey**

DEMİR G., AKYÜREK S. Z., BİNLEY A., YÜCEL İ., KENTEL ERDOĞAN E., MERZİ N., YILMAZ M. T., YANMAZ A. M.

European Geosciences Union General Assembly 2017, 23 - 28 April 2017

- XXII. **Nonstationary frequency analyses of hydroclimatological extremes over Turkey**  
aziz r., YÜCEL İ.  
EGU 2017, 23 - 28 April 2017
- XXIII. **Developing an Orographic Adjustment for the SCA-MPRA Algorithm**  
YÜCEL İ., akçelik m., kuligowski b.  
American Geophysical Union (AGU) Fall Meeting, 12 - 16 December 2016
- XXIV. **IMPACTS OF CLIMATE NONSTATIONARITIES ON HYDROCLIMATOLOGICAL EXTREMES**  
YÜCEL İ., rizwan a.  
American Geophysical Union (AGU) Fall Meeting, 12 - 16 December 2016
- XXV. **Estimation of Radar Based High Resolution Precipitation Product over Turkey**  
YILMAZ M. T., Öztürk K., YÜCEL İ., YILMAZ K. K.  
The 9th European Conference on Radar in Meteorology and Hydrology, 10 - 14 October 2016
- XXVI. **Evaluating the utility obtained by using radar based precipitation for prediction of flood events in western Black Sea basins of Turkey**  
YÜCEL İ., önen a., YILMAZ M. T., erdem e.  
The 9th European Conference on Radar in Meteorology and Hydrology, 10 - 14 October 2016
- XXVII. **Yüksek antropojenik atmosferik CO2 baskısı altında okyanuslar Karadeniz in CO2 tutma kapasitesi**  
CENGİZ Y., YILMAZ A., YÜCEL İ., RUIZ PINO D.  
Türkiye Deniz Bilimleri Konferansı, Ankara, Turkey, 31 May - 03 June 2016
- XXVIII. **Evaluating the one way coupling of WRF Hydro for flood forecasting**  
YÜCEL İ., onen a., YILMAZ K. K., gochis d.  
EGU General Assembly 2016, 17 - 22 April 2016
- XXIX. **Analysis of long term trends of precipitation estimates acquired using radar network in Turkey**  
YILMAZ M. T., YÜCEL İ., YILMAZ K. K.  
EGU General Assembly 2016, 17 - 22 April 2016
- XXX. **Calibration and evaluation of a flood forecasting system Utility of numerical weather prediction model data assimilation and satellite based rainfall**  
YÜCEL İ.  
Earth Observation for Water Cycle Science 2015, 20 - 23 October 2015
- XXXI. **Farklı yağış verileri kullanarak bir anitaşkın olayının incelenmesi**  
YÜCEL İ.  
II. Meteorolojik Uzaktan Algılama Sempozyumu, Antalya, Turkey, 3 - 05 November 2015
- XXXII. **Hidrolik ve hidrolojik modelleme**  
YÜCEL İ.  
T.C. Orman ve Su İşleri Bakanlığı Su Yönetimi Genel Müdürlüğü SU KAYNAKLARININ MODELLENMESİ HİZMET İÇİ EĞİTİMİ, Antalya, Turkey, 17 - 20 November 2015
- XXXIII. **Hidrometeorolojik modelleme**  
YÜCEL İ.  
T.C. Orman ve Su İşleri Bakanlığı Su Yönetimi Genel Müdürlüğü SU KAYNAKLARININ MODELLENMESİ HİZMET İÇİ EĞİTİMİ, Antalya, Turkey, 17 - 20 November 2015
- XXXIV. **BİR TAŞKIN TAHMİN SİSTEMİNİN DEĞERLENDİRİLMESİ NÜMERİK HAVA TAHMİN MODELİ VERİ ASİMİLASYONU VE UYDU YAĞIŞLARININ KULLANIMI**  
YÜCEL İ.  
VIII. Ulusal Hidroloji Kongresi, Şanlıurfa, Turkey, 8 - 10 October 2015
- XXXV. **Changes in snowmelt runoff for mountain regions of eastern Anatolia Turkey**  
YÜCEL İ., Guventürk A., Sen O. L.  
EWRA 9th World Congress: Water Resources Management in a Changing World: Challenges and Opportunities, İstanbul, Turkey, 10 - 13 June 2015
- XXXVI. **Atmosfer ve Meteorolojik Kavramlar**



- YÜCEL İ.  
ODTÜ-Uygulamalı Hidrografi Eğitimi Sertifika Programı (IHO-B Kategorisi), Ankara, Turkey, 19 - 21 January 2015
- XXXVII. **Rüzgarlar**  
YÜCEL İ.  
ODTÜ-Uygulamalı Hidrografi Eğitimi Sertifika Programı (IHO-B Kategori), Turkey, 19 - 23 January 2015
- XXXVIII. **Hava Durumu Gözlem ve Kayıt**  
YÜCEL İ.  
ODTÜ-Uygulamalı Hidrografi Eğitimi Sertifika Programı (IHO-B Kategori, Ankara, Turkey, 19 - 23 January 2015
- XXXIX. **Akdeniz havzası iklim değişimi ve etkileri**  
YÜCEL İ.  
ODTÜ-Uygulamalı Hidrografi Eğitimi Sertifika Programı (IHO-B Kategori, Ankara, Turkey, 19 - 23 January 2015
- XL. **Assessment of flash flood events using remote sensing and atmospheric model-derived precipitation in a hydrological model**  
YÜCEL İ., Keskin F.  
25th General Assembly of the International Union of Geodesy and Geophysics, Melbourne, Australia, 28 June - 07 July 2011, vol.344, pp.245-246

## Supported Projects

- Yılmaz M. T., Darama Y., Yücel İ., Kentel Erdoğan E., Yılmaz M., TUBITAK Project, İklim Değişikliğinin Çoruh Havzasındaki Yüzey Su Potansiyeline Ve Ardisik Barajlardaki Enerji Üretimine Etkilerinin İncelenmesi, 2022 - 2025
- YÜCEL İ., TUBITAK Project, Türkiye Üzerinde Konvektif ve Cephesel Yağış Tahmininde Model-Tabanlı Kısa Vadeli Yağış Tahminlerinin Doğruluk Değerlendirmesi, 2021 - 2022
- Kentel Erdoğan E., Yücel İ., TÜBİTAK International Bilateral Joint Cooperation Program Project, Assessment of Climate Change Impacts on Streamflow and Hydropower in Antalya, Turkey, 2019 - 2021
- YÜCEL İ., TUBITAK Project, Bütünleştirilmiş Atmosferik-Hidrolojik Model Sisteminin Taşkın Olayları İçin İki Farklı Havzada Değerlendirilmesi, 2018 - 2021
- YÜCEL İ., YILMAZ M. T., TUBITAK Project, Bütünleştirilmiş Atmosferik-Hidrolojik Model Sisteminin Taşkın Olayları İçin İki Farklı Havzada Değerlendirilmesi, 2018 - 2021
- Yücel İ., Yılmaz K. K., Yılmaz M. T., TUBITAK Project, Bütünleştirilmiş Atmosferik-Hidrolojik Model Sisteminin Taşkın Olayları İçin İki Farklı Havzada Değerlendirilmesi, 2016 - 2021
- Yücel İ., Aydın A. F., Ünlü K., Fıstıkoğlu O., Şorman A. A., Balas L., Technopark, SU KAYNAKLARININ SÜRDÜRÜLEBİLİR YÖNETİMİ İÇİN ÜLKEMİZE ÖZGÜ HİDROLOJİK, SU KALİTESİ VE EKOLOJİK MODELLEME ARAÇLARI GELİŞTİRİLMESİ PROJESİ, 2016 - 2019
- Yücel İ., Company, Batı Akdeniz Havzası Kuraklık Yönetim Planının Hazırlanması, 2018 - 2018
- Yücel İ., Yılmaz M. T., Yılmaz K. K., Alp E., Technopark, Havza Su Projesi, 2017 - 2018
- YÜCEL İ., YILMAZ A., Project Supported by Higher Education Institutions, Yer Sistem Bilimleri Modelleme Araştırma Laboratuvarı Altyapı Projesi, 2012 - 2013
- YÜCEL İ., Project Supported by Higher Education Institutions, İklim Değişikliğinin Fırat Ve Dicle Havzasındaki Akımlara Etkisinin İncelenmesi, 2011 - 2012
- YÜCEL İ., YILMAZ K. K., TUBITAK Project, Bölgesel Nitelikli Hidrometeorolojik Model Sistemi Kullanımı İle Taşkın Olaylarının Analizleri, 2010 - 2012

## Memberships / Tasks in Scientific Organizations

Türkiye Ulusal Jeodezi ve Jeofizik Birliği (TUJJB), Executive Board Member, 2017 - Continues

## Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2023

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, October 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, October 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2023

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, May 2023

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, April 2023

Horizon Europe Project, Horizon Europe Project, Middle East Technical University, Turkey, April 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

JOURNAL OF HYDROMETEOROLOGY, Journal Indexed in SCI-E, December 2020

TEKNIK DERGI, Journal Indexed in SCI-E, October 2020

TEKNIK DERGI, Journal Indexed in SCI-E, October 2020

THEORETICAL AND APPLIED CLIMATOLOGY, Journal Indexed in SCI-E, September 2020

JOURNAL OF HYDROLOGY, SCI Journal, June 2020

JOURNAL OF HYDROLOGY, SCI Journal, February 2020

HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, Journal Indexed in SCI-E, February 2020

TEKNIK DERGI, Journal Indexed in SCI-E, December 2019

HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, SCI Journal, October 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2019

TUBITAK Project, 2223 - Domestic Scientific Activities Support Program, Middle East Technical University, Turkey, June 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2019

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2019

International Conference on Sustainable Development of Water and Environment (ICSDWE2019), Conference Paper (Full Text), January 2019

GEOSCIENTIFIC MODEL DEVELOPMENT, SCI Journal, November 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, November 2018

JOURNAL OF HYDROLOGY, SCI Journal, September 2018

JOURNAL OF HYDROLOGY, SCI Journal, July 2018

fotovoltaik bilimi ve teknolojisi, PVCON2018, Conference Paper (Full Text), May 2018

13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, ACE 2018, Conference Paper (Full Text), May 2018

ENVIRONMENTAL RESEARCH LETTERS, SCI Journal, April 2018  
JOURNAL OF HYDROLOGY, SCI Journal, March 2018  
NATURAL HAZARDS, SCI Journal, January 2018  
ARABIAN JOURNAL OF GEOSCIENCES, SCI Journal, January 2018

### **Scientific Consultations**

TÜBİTAK-MAM, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey, 2020 - Continues

### **Scientific Research / Working Group Memberships**

Türkiye Ulusal Jeodezi Ve Jeofizik Birliği/Türkiye Ulusal Meteoroloji Ve Atmosfer Fiziği Komisyonu (Tumak) , Middle East Technical University, Turkey, <http://www.tujjb.org.tr/anasayfa>, 2018 - Continues

### **Metrics**

Publication: 86  
Citation (WoS): 868  
Citation (Scopus): 1069  
H-Index (WoS): 16  
H-Index (Scopus): 18

### **Invited Talks**

Küresel İklim Değişikliği ve Dokap Bölgesine Etkileri, Workshop, DOKAP bölgesi üniversiteler birliği, Turkey, October 2021  
Third international training course on climate analysis and applications , Seminar, Meteoroloji Genel Müdürlüğü, Turkey, October 2018  
Batı Akdeniz Havzası Kuraklık Yönetim Planı, Workshop, Su Yönetimi Genel Müdürlüğü, Turkey, March 2018  
23 Mart Dünya Meteoroloji Günü, Seminar, Meteoroloji Genel Müdürlüğü, Turkey, March 2018

### **Non Academic Experience**

METU  
METU  
Hampton University  
University of Arizona