

ERCAN KAHYA

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EDUCATION

- 1989 - 1993 **Ph. D.**
Department of Civil Engineering
University of California, Los Angeles (UCLA), USA

Major Field: Water Resources Engineering
Minor Field: Atmospheric Sciences
- 1988 - 1989 Department of Civil Engineering
Columbia University (CU), New York, USA
Water Resources Engineering
Graduate Study (Ph. D.)
- 1986 - 1987 **M. Sc.**
Department of Civil Engineering
Polytechnic University (PU), New York, USA

Water Resources Engineering
- 1985 - 1985 **English Language Education**
June - Dec. ELS Language Center
Oklahoma City University (OCU), Oklahoma City, USA
- 1985 - 1985 Foreign Language Center
Jan. - May Middle East Technical University (METU), Ankara, Turkey
- 1984 - 1984 Department of Civil Engineering
Sep. - Dec. Bosphorus University (BU), Istanbul, Turkey
Prior to graduate study program for M.Sc. degree
- 1980 - 1984 **B. Sc.**
Department of Civil Engineering
Istanbul Technical University (İTÜ), Istanbul, Turkey

EXECUTIVE EXPERIENCE

- 2021 - present **Tashkent Institute of Architecture and Civil Engineering, Rector**

Responsible for all the matters in raising the rank of the institution worldwide
- 2012 - 2020 **Istanbul Technical University North Cyprus, Rector**

[Building a university from scratch! It is just like writing A NEW STORY ...
Responsible for all kinds of institutional, administrative and academic works; struggled with massive

bureaucracy in land leasing; signed more than 40 cooperation agreements; involved individually in all types of campus architecture & restoration projects from A to Z; prepared all strategic and financial plans; activated a new continuing education center (now ranked #1 in Cyprus); built first open innovation campus in the region; set up the foundations of incubation center & techno park system and several Center of Excellence; opened the first graduate MBA program (starting on Sep. of 2020); motivated new successful student clubs (e.g., emergency rescue, underwater diving; archery) for national competitions; organized many social panels and activities; constructed required all labs for existing three undergrad marine sciences departments; coordinated for national and international accreditation of these programs and so many works...]

- 2012 - 2020 **İTÜ University Executive Board and Senate Member**
Istanbul Technical University, Istanbul
- 2012 - 2020 **Hydraulics and Water Resources Eng. Program Council Member**
Istanbul Technical University, Istanbul
- 2014 - 2015 **Head of Hydraulic Division**
Istanbul Technical University, Istanbul
- 2009 - 2010 **İTÜ / UAE Relations Coordinator**
American University of Sharjah
- [Organized & coordinated the process of MOU between ITU and Higher Colleges of Technology in Abu Dhabi in 2010]
- 2002 - 2006 **Member of Executive Board**, Coastal Sciences and Engineering Graduate Program at ITU
Istanbul Technical University, Istanbul
- 2002 - 2004 **Vice Dean**, Institute of Science and Technology (aka Graduate School)
Istanbul Technical University, Istanbul
- [Responsible for all graduate student affairs at the largest graduate school in Europe, more than 6,000 enrolments]
- 2002 - 2004 **Member of Executive Board**, Institute of Science and Technology
Istanbul Technical University, Istanbul
- 2001 - 2003 **Member of Executive Board**, EURASIA Institute of Earth Sciences
Istanbul Technical University, Istanbul
- 1996 - 1999 **Head of Hydraulic Division**, Civil Engineering Department
Selçuk University, Konya
- 1996 - 1999 **Member of Executive Board**, Civil Engineering Department
Selçuk University, Konya
- 1995 - 2000 **Chief of Hydraulic Laboratory**, Civil Engineering Department
Selçuk University, Konya

ACADEMIC EXPERIENCE

2009 - present **Professor**, Department of Civil Engineering
Istanbul Technical University (ITU), Istanbul

2008 - 2010 **Visiting Prof.**, Department of Civil Engineering
American University of Sharjah (AUS), UAE

[Teaching undergraduate level courses; Undertaking various water resources and hydro-meteorological researches; Presenting papers in international and national conferences; Participating in various academic commissions; etc.]

- 2006 - 2008 **Assoc. Prof.**, Department of Civil Engineering
Istanbul Technical University (ITU), Istanbul
[Teaching undergraduate and graduate level courses; Supervising M.S. and Ph.D. students; Undertaking various water resources and hydro-meteorological researches; Presenting papers in international and national conferences; Participating in various academic commissions; etc.]
- 2004 - 2006 **Visiting Assoc. Prof.**, Department of Civil Engineering
American University in Dubai (AUD), UAE

[Teaching undergraduate level courses; Tailoring new courses; Conducting research activities. Participating in various academic commissions; etc.]
- 2001 - 2004 **Assoc. Prof.**, Department of Civil Engineering
Istanbul Technical University (ITU), Istanbul

[Same as above]
- 1998 - 2000 **Assoc. Prof.**, Department of Civil Engineering
Selçuk University (SU), Konya

[Same as above]
- 1994 - 1998 **Assist. Prof.**, Department of Civil Engineering
Selçuk University (SU), Konya

[Same as above]
- 1993 - 1994 **Water Resources Specialist**
State Water Works (DSİ), Ankara, Turkey

[Responsible for an irrigation project in Southern Anatolia Project (GAP); Establishing stochastic models for the reliability of active reservoir volumes; Performing various hydrologic works such as spillways-gates-outlet works, pressure conduits, water supply systems, flood damage mitigation, and planning for water resources development.]
- 1993 - 1993 **Post-doc**,
University of California, Los Angeles (UCLA), USA

[Performing research regarding U.S. streamflow and La Nina events and preparing all relevant research works to be published in WRR journal; Investigating hydroelectric power and groundwater problems existed in Los Angeles.]
- 1990 - 1992 **Research Assistant**,
University of California, Los Angeles (UCLA), USA

[Studying U.S. streamflow patterns in association with ENSO episodes; Applying various methodologies such as harmonic analysis, composite analysis, statistical models based on some theoretical PDF; Writing proposal and final reports; Presenting papers in conferences.]
- 1986 - 1987 **Laboratory Assistant**,
Polytechnic University (PU), New York, USA

[Conducting undergraduate experiments in the hydraulic lab.]

CONSULTANCY EXPERIENCE

- 2004 - 2006 **Consultant**
Metropol Gulf Landscaping & Construction L.L.C., Dubai/UAE

[Preparing joint venture agreements; Presenting company profiles to new customers; Participating various business meeting; Evaluating project bids, Organizing work forces, etc.]

RANK & SCHOLARSHIP & AWARD

1984	Ranked 5 th among 300 graduates at ITU
1985 - 1991	Ranked 2 nd nationwide & awarded by State Scholarship to pursue postgraduate study in the US
1987	Tuition Remission by Polytechnic University
1992	Conference Travel Award by UCLA
1992	Tuition Fellowship by UCLA

MEMBERSHIP

Epigenetics and Nutrogenetics Association Istanbul, Turkey / Vice President (2020-now)
 Turkish Society of Civil Engineering, Istanbul, Turkey
 International Association of Hydrological Sciences, UK
 Turkish National Hydrology Commission, Ankara, Turkey
 Turkish Association of Preventing Traffic Accidents, Konya, Turkey (1999-2001)
 Turkish Business Council, Dubai, UAE (2004-2005)
 American Geophysical Union (AGU), USA
 European Geophysical Union (EGU), France
 International Association of Hydrological Sciences (IAHS), UK
 European Water Resources Association (EWRA)
 Joint Specialist Group (JSG) on Marine Outfalls & Coastal Environment, Istanbul

RESEARCH STUDY AND INTEREST

SURFACE WATER HYDROLOGY; HYDROCLIMATOLOGY; HYDRAULICS; WATER RESOURCES;
 COASTAL ENGINEERING; ENVIRONMENTAL ENGINEERING

- * Climatological and Hydrological Variability
- * Hydrologic Time Series Analysis; Stochastic Modeling
- * Flood Hazard Modeling
- * Hydrological Modeling coupled with GCMs
- * Coastal Zone Management
- * Climate Change and Drought

FACULTY/DEPARTMENT COMMITTEE MEMBERSHIP

- 1) Library Committee; School of Engineering and Architecture, SU (1995-1997)
- 2) Organizing Courses in Foreign Language Committee; School of Eng. and Architecture, SU (1995-1997)
- 3) Doctorate Thesis Supervision Committee; Graduate School, SU (1995-1997)
- 4) Doctorate Qualifying Committee of Hydraulics and Water Resources Division; ITU (2004)
- 5) Examination Committee; Coastal Sciences and Engineering Program, Graduate School, ITU (2004-2006)
- 6) Library Committee; School of Engineering, American University in Dubai; AUD (2005-2006)
- 7) *Individual Task*: Faculty Advisor, American University in Dubai; AUD (2005-2006)
- 8) TSE (Turkish Standard Institution) and ISO Standards Committee; Civil Eng. Faculty, ITU (2007-2008)

FACULTY/DEPARTMENT COMMITTEE MEMBERSHIP AT AUS

- ✦ Curriculum Committee [2008-2010]
- ✦ Outreach, Alumni & Graduate Students Recruitment Committee [2008-2010]
- ✦ Faculty Search Committee (AUS) [2008-2010]
- ✦ Graduate Program Admission Committee [2008-2010]
- ✦ *Individual Task*: Design Project Coordinator [2008-2010]
- ✦ *Individual Task*: Extra-curriculum Activities Coordinator [2008-2010]

SCIENTIFIC ORGANIZATION & SCIENTIFIC COMMITTEE MEMBERSHIP

- 1) **Panel Organization and Speaker:** Topic: “*Transboundary Rivers/Climate Change/El Nino*”; Speakers: Prof. Zekai Şen, Dr. Mikdat Kadioğlu, Dr. Ercan Kahya; Date: *08 September 1998*; Place: Selcuk University/Konya, Turkey.
- 2) **Seminar Organization:** Topic: “*Prediction of Streamflow and Precipitation based on Large-Scale Atmospheric Circulation*”; Speaker: Prof. John A. Dracup (UC Berkeley); Date: *28 Mart 2001*, Place: Istanbul Technical University/Istanbul, Turkey.
- 3) **Panel Organization and Speaker:** Topic: “*Restructuring Graduate Education*”; Speakers: Prof. Mehmet Karaca, Prof. Nüşet Dalfes and Assoc. Prof. Ercan Kahya; Date: *10 Nisan 2002*; Place: Dumlupınar University/Kütahya, Turkey.
- 4) **Scientific Committee Membership:** Title of Meeting: “*II. National Water Engineering Symposium*”; Date: *21-24 September 2005*; Place: Gümüldür/İzmir, Turkey.
- 5) **Seminar Organization:** Topic: “*Chemically reactive, degrading mass transfer in an aquifer: 2 Dimensional numerical simulation with the ADI scheme*”; Speaker: Dr. A. Osman Beg (Professor of Fire Dynamics Leeds College of Building); Date: *19 April 2006*; Place: American University in Dubai/Dubai, UAE.
- 6) **Scientific Committee Membership:** Title of Meeting: “*I. Turkey Climate Change Congress TIKDEK’2007*”; Date: *11-13 April 2007*; Place: Istanbul Technical University/Istanbul, Turkey.
- 7) **Scientific Committee Membership:** Title of Meeting: “*III. National Water Engineering Symposium*”; Date: *10-14 September 2007*; Place: Gümüldür/İzmir, Turkey.
- 8) **Organization & Scientific Committee Membership and Speaker:** Title of Meeting: “*Global Climate Change and Its Environmental Impacts: Regional and Local Dimensions*”; Date: *18-20 October 2007*; Place: Konya, Turkey.
- 9) **Scientific Committee Membership:** Title of Meeting: “*Forest and Environmental Problems in the Context of Global Climate Change and Water Symposium*”; Date: *29-30 November 2007*; Place: Istanbul University/Istanbul, Turkey.
- 10) **Scientific Committee Membership:** Title of Meeting: “*MWWD 2008–5th International Conference on Marine Waste Water Discharges and Coastal Environment*”; Date: *18-20 October 2008*; Place: Dubrovnik, Croatia.
- 11) **Organizing & Scientific Committee Membership:** Title of Meeting: “*Climate Extremes during Recent Millennia and their Impact on Mediterranean Societies*”; Date: *14-16 September 2008*; Place: National and Kapodistrian University of Athens/Athens, Greece (together with Drs: Henry Diaz; Ray Bradley; Ricardo Garcia; Phil Jones; Elena Xoplaki; Malcom Huges; Ricardo Garcia-Herrera and Juerg Luterbacher).
- 12) **Scientific Committee Membership:** Title of Meeting: “*IV. National Water Engineering Symposium*”; Date: *6-10 July 2009*; Place: Orhantepe, Istanbul, Turkey.
- 13) **Scientific Committee Membership:** Title of Meeting: “*ESF-MedCLIVAR Workshop: Hydrological, socioeconomic and ecological impacts of the North Atlantic Oscillation in the Mediterranean region*”; Date: *24-27 May 2010*; Place: Zaragoza, Spain.

OTHER ACADEMIC/EXECUTIVE/SOCIAL ACTIVITIES

- 1) Juror, M. Sc. and Ph.D. thesis defense, Civil Eng. Dept., SU, (1995-2000)
- 2) Juror, M. Sc. and Ph.D. thesis, Civil Eng. Dept., ITU, (2001-)
- 3) Evaluating EU and TUBITAK (aka; Turkish NSF) project proposals
- 4) Evaluator - ESA Earth Observatory R&D Section (<http://eopi.esa.int/>)
- 5) Faculty Advisor – School of Engineering, AUD, (2004-2006)
- 6) Session Chair in many national and international conferences
- 7) Speaker on national TV channels (i.e., TRT2, Medical Channel, News Turk, Kon TV, Channel 24, BRT)

COURSES LECTURED

Undergraduate Level Courses (Lectured in Turkish at SU: 1995-2000)

- Fluid Mechanics
 - Hydraulics (Both Civil and Mining Eng. departments)
 - Hydrology
 - Water Resources Engineering
 - Statistics (Both Civil and Industrial Eng. departments)
 - Senior Design Project
- Graduate Level Courses** (Lectured in Turkish at SU: 1995-2000)

- Open Channel Hydraulics
 - Stochastic Modeling in Hydrology
 - Hydrological Systems Analysis
 - Advanced Hydrology
- Undergraduate Level Courses** (Lectured in English at ITU: 2001-present)

- Water Resources
- Hydrology
- Probability and Statistics
- Senior Design Project
- Fluid Mechanics
- Hydraulics

Graduate Level Courses (Lectured in English at ITU: 2002-present)

- Hydroclimatology (doctorate-level)

Undergraduate Level Courses (Lectured at American University in Dubai (AUD): 2004-2006)

- | | |
|-----------------------------|-------------------------|
| ▪ Environmental Engineering | ▪ Dynamics |
| ▪ Hydrology | ▪ Statics |
| ▪ Fluid Mechanics | ▪ Geomatics |
| ▪ Coastal Engineering | ▪ Senior Design Project |

Undergraduate Level Courses (Lectured at American University of Sharjah (AUS): 2008-2010)

- Water Resources Engineering
- Capstone Design Project
- Fluid Mechanics

DEVELOPED CURRICULUM AND PROGRAM

- *Stochastic Modeling in Hydrology* – Graduate School of Selçuk University (SU), Turkey (1995-2000)
- *Open Channel Hydraulics* – Graduate School of Selçuk University (SU), Turkey (1995-2000)
- “*Coastal Sciences and Engineering Graduate Program*” – Graduate School of ITU, Turkey (2002 -)
- *Hydroclimatology* – Graduate School of ITU, Turkey (2004 -)
- *Coastal Engineering* – Civil Eng. Dept. of American University in Dubai (AUD) (2005-2006)
- *Senior Design Project-Coastal Engineering* – Civil Eng. Dept. of American University in Dubai (AUD) (2005-2006)

GRADUATE STUDENT ADVISORY ACTIVITIES

M. Sc. Thesis:

- 1) M. Çağatay Karabörk, 1997 (Civil Eng. Dept., SU): Stochastic Modeling of Annual and Monthly Streamflows.
- 2) Naci Büyükkaracığan, 1997 (Civil Eng. Dept., SU): A Comparison of Various Distributions Used in Frequency Analysis, Applying to Annual Peak Series of Konya Basin.
- 3) Nermin Şarlak, 1998 (Civil Eng. Dept., SU): Analysis of Critical Drought with First Order Markov Chain Model.

- 4) Cemal Gürses, 1998 (Civil Eng. Dept., SU): Frequency Analysis of Annual Peak Flows in Konya Basin by L-Moments.
- 5) Serdar Kalaycı, 1997 (Civil Eng. Dept., SU): Determination of Water Quality Trends in Streamflows of Susurluk Basin (Honorary Advisor).
- 6) Ömer Köse, 1999 (Civil Eng. Dept., SU): Drought Analysis of Monthly Streamflows in the Konya Basin by Using Poisson Distribution (Honorary Advisor)
- 7) Turgay Partal, 2003 (Civil Eng. Dept., ITU): Trend Analysis of Turkish Precipitation Patterns.
- 8) M. Cüneyd Demirel, 2004 (Civil Eng. Dept., ITU): Cluster Analysis of Streamflow in Turkey.
- 9) Olgay Şen, 2011 (Civil Eng. Dept., ITU): Hydrological Regionalization of High and Low Flows.
- 10) Saeid Sadeghinazhad, 2019 (Civil Eng. Dept., ITU): Low Impact Development (LID) Practices in Flood Control of Urban Areas Using SWMM.

Ph. D. Thesis:

- 1) M. Çağatay Karabörk, 2000 (Civil Eng. Dept., SU): Influences of El Nino and La Nina Events on Streamflows in Turkey [*Dr. Karabörk is currently a full professor at Dumlupınar University*].
- 2) Serdar Kalaycı, 2003 (Civil Eng. Dept., SU): The Variability Analysis of Turkish Streamflows [*Dr. Kalaycı is currently Director of Construction Works at President Place, Ankara*].
- 3) Taner M. Cengiz, 2005 (Civil Eng. Dept., ITU): Hydroclimatological Analysis of Lake Levels in Turkey [*Dr. Cengiz is currently an assistant professor at Namık Kemal University*].
- 4) Ali İhsan Martı, 2006 (Civil Eng. Dept., SU): Streamflow and Precipitation Forecasting Models Based on Their Relationships with the Southern Oscillation. [*Dr. Martı is currently an assistant professor at Selçuk University*].
- 5) Turgay Partal, 2007 (Civil Eng. Dept., ITU): Forecasting Model of Turkish Precipitation Data Based on Neural Networks and Wavelet Methods (with a co-advisor) [*Dr. Partal is currently an associate professor at Dumlupınar University*].
- 6) Ali Danandeh Mehr, 2016 (İTÜ): Climate Change Impacts on Catchment-Scale Extreme Rainfall Variability [*Dr. A. D. Mehr is currently an associate professor at Antalya Science University*]
- 7) Buğrayhan Biçkici, 2018 (İTÜ): Prediction of Drought Indices Based on Hydroclimatological Data [*Dr. Biçkici is currently an assistant professor at Medeniyet University*].
- 8) Saeid Vazifehkhah, 2018 (İTÜ): Catchment Scaled Drought Analysis: Integrated Climate and Hydrological Perspectives
- 9) Olgay Şen, 2019 (İTÜ): Determination of Flood Risk in the Basins of Rize Using Climate and Hydrological Models
- 10) M. Fatih Demir (İTÜ- thesis): Hydroclimatological Analysis of Potential Evapotranspiration in Turkey
- 11) Hilal Erdem (İTÜ- thesis): Prediction of seasonal precipitation and extreme flow in Turkey based on Maden-Julian Oscillation.
- 12) Sead Ahmed (İTÜ- thesis): Integrated Watershed Modelling Using the OpenMI Framework

CONFERENCE ACTIVITIES

- 1) **Invited Speaker:** Symposium on “The World at Risk: Natural Hazards and Climate Change”, MIT, Cambridge, USA, January 14-16, 1992.

- 2) **Invited Speaker:** Workshop on “ENSO and Its Influence on Pacific Rim Streamflow”, UCLA, Los Angeles, USA, November 28 - December 3, 1993.
- 3) **Invited Speaker:** Conference on “Statistical concepts in understanding and modeling hydro-climatic change.” HS41 at EGU General Assembly (for details: <http://meetings.copernicus.org/egu2007/>), Vienna, Austria 2007.
- 4) **Invited Speaker:** Conference on “Global Climate Change and its Environmental Impacts: Regional and Local Dimensions” Konya, Turkey, October 18-20, 2007.
- 5) **Invited Speaker:** Conference on “Floods, Avalanches, Preservation River Beds” Trabzon, Turkey, August 7-8, 2008.
- 6) **Invited Thinker:** Round Table Discussion on “*Third Festival of Thinkers*” Abu Dhabi, UAE, November 02-04, 2009.
- 7) **Invited Speaker:** Workshop on “ESF-MedCLIVAR Workshop: Hydrological, socioeconomic and ecological impacts of the North Atlantic Oscillation in the Mediterranean region” Zaragoza, Spain, May 24-27, 2010.
- 8) **Invited Speaker:** Symposium on “Landslides and Floods in Eastern Black Sea Region” Trabzon, Feb. 10-11, 2011.
- 9) **Invited Speaker:** Meeting on “Management of water systems under contamination stress” Fethiye, Oct. 10-12, 2012.
- 10) **Invited Speaker:** Conference on “Water and Food Security in The OIC Member Countries” Turkish Republic of Northern Cyprus, Girne, November 22-24, 2013.
- 11) **Invited Speaker:** Seminar on “Impact of climate change on regional water resources in Turkey & Germany” İzmir, Oct. 13-15, 2014.
- 12) **Invited Speaker:** Search Meeting on “Abdullah Gül University Civil Engineering Department” Kayseri, AGÜ Sümer Campus, March 7, 2015.
- 13) **Invited Speaker:** “10th Int. Congress on Civil Engineering (10ICCE)” University of Tabriz, Iran, May 5-7, 2015.
- 14) **Invited Speaker:** Workshop on “Transportation” Girne, Turkish Republic of Northern Cyprus, December 3-5, 2015.
- 15) **Invited Speaker:** Conference on “Smart Growth in Higher Education-Future Scenarios for Northern Cyprus and the Mediterranean Region” Girne, Northern Cyprus, October 10-11, 2018.
- 16) **Invited Speaker:** Search Meeting on “Kadir Has University Civil Engineering Department” Istanbul, KHU Haliç Campus, November, 2019.
- 17) **Speaker:** 16th Annual Climate Diagnostics Workshop, UCLA, Los Angeles, USA, October 28-November 1, 1991.
- 18) **Speaker:** 9th Annual Pacific Climate (PACLIM) Workshop, Asilomar, CA, USA, April 21-24, 1992.
- 19) **Speaker:** 17th Annual Climate Diagnostics Workshop, University of Oklahoma, Norman, USA, October 19-23, 1992.
- 20) **Speaker:** Hydrometeorology Session at American Geophysical Union (AGU) Meeting, San Francisco, USA, Fall 1992
- 21) **Speaker:** International Conference on “Water Problems in Mediterranean Countries”, NEU, Nicosia, North Cyprus, November 17-21, 1997 <Presented two articles>
- 22) **Speaker:** 1st International Workshop on “Environmental Quality and Environmental Engineering in the Middle East Region” Symposium, Konya, Turkey, October 5-7, 1998
- 23) **Speaker:** 1st National Climatology Workshop, Ege University, İzmir, Turkey, April 11-13, 2002 <Co-author of two articles>
- 24) **Speaker:** 3rd International Symposium on AGRO-ENVIRON 2002, Cairo, Egypt, October 26-29, 2002
<Technical Session-3(B) Environment and Climate Change, **Session Chair** and co-author of four articles>
- 25) **Speaker:** XXX IAHR: Water Engineering and Research in Learning Society” Thessalonica, Greece, September 24-29, 2003 <Theme B-Precipitation, **Session Chair** and co-author of four articles>
- 26) **Speaker:** 1st National Dams and Hydro-electrical Power Plants, State Water Works General Directorate, Ankara, Turkey, 1-3 June, 2004 <**Session Chair** and co-author of two articles>
- 27) **Speaker:** AGU Hydrology Days 2007, Colorado State University, Fort Collins, USA March 19-21, 2007
< Co-author of 2 oral and 9 poster papers>
- 28) **Speaker:** III. National Water Engineering Symposium, Gümüldür-İzmir, Turkey, September 10-14, 2007.
<**Session Chair** and co-author of one article>

As a Participant:

- 1) Special scientific meeting at *Scripps Institution of Oceanography*, UCSD, La Jolla, CA, USA, 1991.
- 2) Hydrology and Hydrometeorology Sessions at American Geophysical Union (AGU) Meeting, San Francisco, USA, Fall, 1991.
- 3) 2nd National Hydrometeorology Symposium, State Meteorology Works General Directorate, Ankara, December 18-20, 1998. <Co-author of five articles>
- 4) 5th Congress on Advances in Civil Engineering (ACE 2002), Istanbul Technical University, Istanbul, September 25-27, 2002. <**Session Chair** and co-author of three articles>
- 5) 1st National Water Engineering Symposium, DSİ, Gümüldür / İzmir, Turkey, September 22-26, 2003. <Session 1-Monday, **Session Chair** and co-author of two articles>
- 6) 3rd National Water Engineering Symposium, DSİ, Gümüldür / İzmir, Turkey, September 10-14, 2007. <Hydrology I: session 1- 22 Monday 11:40-12:40 **Session Chair** and co-author of one article >
- 7) 5th National Water Engineering Symposium, DSİ, Orhantepe / İstanbul, Turkey, September 12-16, 2011. < Co-author of one article>
- 8) Global Conference on Global Warming-2012 (GCGW-2012), Istanbul, Turkey, July 8-12, 2012. < Co-author of one article>
- 9) X. National Hydrology Congress, Muğla Sıtkı Kocaman University, Muğla, Turkey, October 9-12, 2019. < Co-author of one article>

EDITORIAL BOARD MEMBERSHIP IN PEER-REVIEWED JOURNAL

- **Associate Editor:** *JOURNAL OF HYDROLOGY* (Elsevier - SCI) [2009-2017]
- Research Journal of Applied Sciences (Medwell) [2006-]
- Online Journal of Earth Sciences (Medwell) [2006-]
- Journal of Engineering and Applied Sciences (Medwell) [2006-]
- Research Journal of Biological Sciences (Medwell – ISI Thomas Scientific Master List) [2007-]
- Pakistan Journal of Biological Sciences (ANSI – ISI Thomas Scientific Master List) [2007-2009]
- Journal of Applied Sciences (ANSI – ISI Thomas Scientific Master List) [2007-2009]
- Journal of Selçuk University Engineering-Architecture Faculty [1995-2000]

INTERNATIONAL PROJECT INVOLVEMENTS

- **COST** (2018-) Secondary Proposer
- Proposal Reference OC-2017-1-22119
- DAMOCLES (UnDerstanding And Modeling cOmpound CLimate and weather Events) >

MOST CITED ARTICLES LIST

- ◆ 2012-2013: **Rank:** # 1 **Journal:** *Hydrological Processes*, **Article:** Jhajharia, et al. (2012) < paper no: 23 >
- ◆ 2014-2015: **Rank:** #14 **Journal:** *Journal of Hydrology*, **Article:** Di npashoh, et al. (2011) < paper no: 22 >
- ◆ 2016- : **Rank:** # 7 **Journal:** *Journal of Hydrology*, **Article:** Di npashoh, et al. (2011) < paper no: 22 >

MISCELLANEOUS ACADEMIC SUCCESSES

- ◆ 2017 June : İTÜ Best Doctorate Thesis (Dr. Ali D. Mehr) - (Supervised)
- ◆ 2017 June : Google Scholar “2006 CLASSICS IN HYDROLOGY & WATER RESOURCES” “Trend Analysis in Turkish Precipitation Data” (Partal and Kahya, 2006)

- ◆ 2018-present : Web of Science “*HIGHLY CITED PAPER*”
“Trends in Reference Crop Evapotranspiration over Iran”
(Dinpashoh, et al., 2011)
- ◆ 2015: Ranking 483 in the list of 2.600 top scientists nationwide (RE: Webometrics)
- ◆ 2020: Taking place in the list of 161.442 top scientists worldwide (RE: Stanford Uni./PLOS Biology Journal)
(Note: The number of Turkish scientists in this list is 857)
- ◆ 2021: Ranking 360 in the list of 6.000 top scientists nationwide (RE: Prof. Murat ALPER / Researchgate.com)

CITATIONS

◆ Web of Science (Publons)	: 3.333	◆ h-index: 27
◆ Scopus	: 3.576	◆ h-index: 28
◆ ResearchGate	: 5.171	◆ h-index: 32
◆ Google Scholar	: 5.865	◆ h-index: 34

REFEERE ACTIVITIES FOR PEER-REVIEWED JOURNAL

“SCI & SCI Exp – ISI Thomas Scientific” Journals

- ◆ (9) Advances in Engineering Software
- ◆ (1) Agricultural Water Management
- ◆ (1) Annals of Geophysics
- ◆ (3) Arabian Journal of Geosciences
- ◆ (1) Asia-Pacific Journal of Atmospheric Sciences
- ◆ (1) Central European Journal of Geosciences
- ◆ (1) CLEAN- Soil Air Water
- ◆ (2) Climatic Change
- ◆ (4) Fresenius Environmental Bulletin
- ◆ (1) Global and Planetary Change
- ◆ (3) Hydrological Processes
- ◆ (3) Hydrology and Earth System Sciences
- ◆ (1) Hydrology Research
- ◆ (5) Hydrological Sciences Journal
- ◆ (5) International Journal of Climatology
- ◆ (1) Iranian Journal of Science & Technology
- ◆ (3) Irrigation Science
- ◆ (1) Journal of Agricultural Science and Technology
- ◆ (1) Journal of American Water Resources Association
- ◆ (2) Journal of Flood Risk Management
- ◆ (5) Journal of Geophysical Research
- ◆ (1) Journal of Hydroinformatics
- ◆ (17) Journal of Hydrologic Engineering
- ◆ (10) Journal of Hydrology
- ◆ (1) Journal of Scientific Review
- ◆ (1) Meteorology and Atmospheric Physics
- ◆ (2) Natural Hazards
- ◆ (2) Physics and Chemistry of the Earth
- ◆ (2) Proceedings of ICE Journal - Water Management

“SCI-ISI Thomas Scientific Master List” Journals

- ◆ (11) Journal of Applied Sciences
- ◆ (1) Research Journal of Environmental Sciences
- ◆ (4) Pakistan Journal of Biological Sciences
- Total: 16**

“Other Index” Journals

- ◆ (1) International Journal of Agricultural Research
- ◆ (1) Online Journal of Earth Sciences
- ◆ (1) Asian Journal of Biochemistry
- ◆ (1) Journal of Biological Sciences
- Total: 4**

“National” Journals

- ◆ (2) CBÜ Science Journal
- ◆ (1) Türk Mühendislik ve Çevre Bilimleri Dergisi
- Total: 3** (Revision Review: 1)

- ◆ (2) Sadhana/Academy Proceedings in Eng. Science
- ◆ (1) Science of the Total Environment
- ◆ (2) Scientia Iranica Journal
- ◆ (4) Theoretical and Applied Climatology
- ◆ (8) Water and Environment Journal
- ◆ (2) Water Management
- ◆ (2) Water Resources Management (WARM)
- ◆ (4) Water Resources Research
- ◆ (1) Water Science and Technology

Gross Total: 116 (Revision Review: 30 included)

PUBLICATION

Theses:

- 1) Kahya, E., 1984: Design of Steel Structures. B.Sc. Senior Project, Istanbul Technical University, Istanbul, Turkey
- 2) Kahya, E., 1987: Reservoir Operating Rules Generated by Stochastic Optimization. M.Sc. Project, Polytechnic University, New York, USA
- 3) Kahya, E., 1993: United States Streamflow Patterns in Relation to the Extreme Phases of the Southern Oscillation. Ph.D. Thesis, University of California, Los Angeles, USA

Book Chapters:

- 1) Kahya, E., 2011: *Impacts of the NAO on the Hydrology of the Eastern Mediterranean* in “Hydrological, Socioeconomic and Ecological Impacts of the North Atlantic Oscillation in the Mediterranean Region”, Eds: S. M. Vicente-Serrano and R. M. Trigo. *Advances in Global Change Research*, Vol. 46, p 57-71, Springer. 1st Edition., 2011, VIII, 236 p., DOI: 10.1007/978-94-007-1372-7.
- 2) Kim, S., Salmasi, F., Ghorbani, M.A., Karimi, V., Malik, A. and E. Kahya, 2021: *Energy Dissipation in Rough Chute: Experimental Approach Versus Artificial Intelligence Modelling*. In: Deo R., Samui, Kisi O., Yaseen Z. (eds) *Intelligent Data Analytics for Decision-Support Systems in Hazard Mitigation*. Springer Transactions in Civil and Environmental Engineering. Springer, Singapore. DOI: 10.1007/978-981-15-5772-9_12.
- 3) Tosunoğlu, F., E. Kahya and M.A. Ghorbani, 2021: *Spatial and temporal linkages between large-scale atmospheric oscillations and drought indices*. In (submitted to one of the book editor Dr. Deepak Jhajharia).

Journal Papers:

SCI monitored Journal Papers:

- 1) Kahya, E. and J. A. Dracup, 1993: U.S. Streamflow Patterns in Relation to the El Nino/Southern Oscillation. *Water Resources Research*, Vol. 29, No 8, 2491-2503.
- 2) Dracup, J. A. and E. Kahya, 1994: The Relationships Between U.S. Streamflow and La Nina Events. *Water Resources Research*, Vol. 30, No 7, 2133-2141.
- 3) Kahya, E. and J. A. Dracup, 1994: The Influences of Type I ENSO and La Nina Events on Streamflows in the Southwestern United States. *Journal of Climate*, Vol. 7, No 6, 965-976.
- 4) Kahya, E. and M.Ç. Karabörk, 2001: The Analysis of El Nino and La Nina Signals in Streamflows of Turkey. *International Journal of Climatology*, Vol. 21, No 10, 1231-1250.
- 5) Karabörk, M. Ç. and E. Kahya, 2003: The Teleconnections Between the Extreme Phases of the Southern Oscillation and Precipitation Patterns over Turkey. *International Journal of Climatology*, Vol. 23, No 13, 1607-1625.
- 6) Kahya, E. and S. Kalaycı, 2004: Trend Analysis of Streamflow in Turkey. *Journal of Hydrology*, Vol. 289, 128-144.

- 7) Kalaycı, S., M.Ç. Karabörk and E. Kahya, 2004: Analysis of El Nino Signals on Turkish Streamflow and Precipitation Patterns Using Spectral Analysis. *Fresenius Environmental Bulletin*, Vol. 13, No 8, 719-725.
- 8) Karabörk, M. Ç., E. Kahya and M. Karaca, 2005: The Influences of the Southern and North Atlantic Oscillations on Climate Surface Variables in Turkey. *Hydrological Processes*, Vol. 19, No 6, 1185-1211
- 9) Kalaycı, S. and E. Kahya, 2006: Assessment of Streamflow Variability Modes in Turkey: 1964-1994. *Journal of Hydrology*, Vol. 324, 163-177
- 10) Partal, T. and E. Kahya, 2006: Trend Analysis in Turkish Precipitation Data. *Hydrological Processes*, Vol. 20, No 9, 2011-2026
- 11) Karabörk, M.Ç., E. Kahya and A.Ü. Kömüçü, 2007: Analysis of Turkish Precipitation Data: Homogeneity and the Southern Oscillation Forcing on Frequency Distributions. *Hydrological Processes*, Vol. 21, No 23, 3203-3210.
- 12) Kahya, E., S. Kalaycı and T.C. Piechota, 2008: Streamflow Regionalization: Case Study of Turkey. *Journal of Hydrologic Engineering*, Vol. 13, No 4, 205-214.
- 13) Kahya, E., M.C. Demirel and A.O. Bég, 2008: Hydrologic Homogeneous Regions Using Monthly Streamflow in Turkey. *Earth Sciences Research Journal*, Vol. 12, No 2, 181-193.
- 14) Bég, A.O., J. Zueco, T.A. Bég, H.S. Takhar, and E. Kahya, 2009: NSM Analysis of Time-dependent Nonlinear Buoyancy-driven Double-diffusive Radiative Convection Flow in Non-darcy Geological Porous Media. *Acta Mech*, Vol. 202, No 1-4, 181-204, DOI: 10.1007/s00707-008-0018-6.
- 15) Demirel, M.C., A. Venancio and E. Kahya, 2009: Flow Forecast by SWAT Model and ANN in Pracana Basin, Portugal. *Advances in Engineering Software*, Vol. 40, No 7, 467-473, DOI: 10.1016/j.advengsoft.2008.08.002.
- 16) Ganapuram, S., G. T. V. Kumar, I. V. M. Krishna, E. Kahya and M.C. Demirel, 2009: Mapping of Ground Water Potential Zones in the Musi Basin Using Remote Sensing Data and GIS. *Advances in Engineering Software*, Vol. 40, No 7, 506-518, DOI: 10.1016/j.advengsoft.2008.10.001.
- 17) Küçük M., E. Kahya, T.M. Cengiz and M. Karaca, 2009: North Atlantic Oscillation Influences on Turkish Lake Levels. *Hydrological Processes*, Vol. 23, No 6, 893-906, DOI: 10.1002/hyp.7225.
- 18) Şarлак, N., E. Kahya and A.O. Bég, 2009: Critical Drought Analysis: A Case Study of Göksu River (Turkey) and North Atlantic Oscillation Influences. *Journal of Hydrologic Engineering*, Vol. 14, No 8, 795-802, DOI:10.1061/(ASCE)HE.1943-5584.0000052.
- 19) Karabörk, M. Ç. and E. Kahya, 2009: The Links between the Categorized Southern Oscillation Indicators and Climate and Hydrologic Variables in Turkey. *Hydrological Processes*, Vol. 23, No 13, 1927-1936, DOI: 10.1002/hyp.7331.
- 20) Yerdelen C., Y. Karimi and E. Kahya, 2010: Frequency Analysis of Mean Monthly Streamflow in Çoruh Basin, Turkey. *Fresenius Environmental Bulletin*, Vol. 19, No 7, 1300-1311.
- 21) Martı, A.I., C. Yerdelen and E. Kahya, 2010: ENSO Modulations on Streamflow Characteristics. *Earth Sciences Research Journal*, Vol. 14, No 1, 31-42.
- 22) Dinpashoh, Y., D. Jhajharia, A. Fakheri-Fard, V.P. Singh and E. Kahya, 2011: Trends in Reference Crop Evapotranspiration over Iran. *Journal of Hydrology*, Vol. 399, 422-433, DOI:10.1016/j.jhydrol.2011.01.021.
- 23) Jhajharia, D., Y. Dinpashoh, E. Kahya, V.P. Singh and A. Fakheri-Fard, 2012: Trends in reference evapotranspiration in the humid region of northeast India. *Hydrological Processes*, Vol. 26, No 3, 421-435, DOI: 10.1002/hyp.8140.
- 24) Demirel, M.C., M.J. Booij and E. Kahya, 2012: Validation of an ANN Flow Prediction Model Using a Multistation Cluster Analysis. *Journal of Hydrologic Engineering*, Vol. 17 No 2, 262-271, DOI:10.1061/(ASCE)HE.1943-5584.0000426.

- 25) Can, I., F. Tosunoğlu and E. Kahya, 2012: Daily Streamflow Modeling Using ARMA and ANN Models: Case Study of Çoruh Basin, Turkey. *Water and Environment Journal*, Vol. 26, 567-576, DOI: 10.1111/j.1747-6593.2012.00337.x
- 26) Danandehmehr A., E. Kahya and E. Olyaie, 2013: Streamflow prediction using linear genetic programming in comparison with a neuro-wavelet technique. *Journal of Hydrology*, Vol. 505, 240–249, DOI: 10.1016/j.jhydrol.2013.10.003
- 27) Jhajharia, D., Y. Dinpashoh, E. Kahya, R.R. Choudhary and V.P. Singh, 2014: Trends in temperature over Godavari River basin in Southern Peninsular India. *International Journal of Climatology*, Vol. 34, No 5, 1369-1384, DOI: 10.1002/joc.3761.
- 28) Danandehmehr A., E. Kahya, F. Bagheri and E. Deliktas, 2014: Successive-station monthly streamflow prediction using neuro-wavelet technique. *Earth Science Informatics*, Vol. 7, No 4, 217-229, DOI: 10.1007/s12145-013-0141-3.
- 29) Danandehmehr A., E. Kahya and M. Özger, 2014: A gene-wavelet model for long lead-time drought forecasting. *Journal of Hydrology*, Vol. 517, 691–699, DOI: 10.1016/j.jhydrol.2014.06.012.
- 30) Danandehmehr A., E. Kahya and C. Yerdelen, 2014: Linear genetic programming application for monthly streamflow prediction. *Computers & Geosciences*, Vol. 70, 63–72, DOI: 10.1016/j.cageo.2014.04.015.
- 31) Uyumaz, A., A. Danandehmehr, E. Kahya and H. Erdem, 2014: Rectangular side weirs discharge coefficient estimation in circular channels using linear genetic programming approach. Vol. 16, No. 6, 1318-1330, *Journal of Hydroinformatics*, DOI:10.2166/hydro.2014.112.
- 32) Shirvani, A., M. Nazemosadat and E. Kahya, 2015: Analyses of the Persian Gulf sea surface temperature: prediction and detection of the climate change signals. *Arabian Journal of Geosciences*, Vol. 8, No. 4, 2121–2130, DOI: 10.1007/s12517-014-1278-1.
- 33) Farshad F., S. Morid and E. Kahya, 2015: Identification of trends in hydrological and climatic variables in Urmia Lake Basin, Iran. *Theoretical and Applied Climatology*, Vol. 119, No. 3-4, 443-464, DOI: 10.1007/s00704-014-1120-4.
- 34) Danandehmehr A., E. Kahya, A. Şahin and M.J. Nazemosadat, 2015: Successive-station monthly streamflow prediction using different artificial neural network algorithms. *International Journal of Environmental Science and Technology*, Vol. 12, No. 7, 2191-2200, DOI: 10.1007/s13762-014-0613.0.
- 35) Partal, T., H.K. Cigizoglu and E. Kahya, 2015: Daily precipitation predictions using three different wavelet neural network algorithms by meteorological data. *Stochastic Environmental Research and Risk Assessment*, Vol. 29, No. 5, 1317-1329, DOI: 10.1007/s00477.015.1061.1.
- 36) Nazemosadat, M.J., V. Ravan, E. Kahya, and H. Ghaedamini, 2016: Projection of temperature and precipitation in southern Iran using ECHAM5 simulations. *Iranian Journal of Science and Technology, Transaction A: Science*, Vol. 40, No: A1, 39-49, DOI: 10.1007/s40995-016-0009-8.
- 37) Danandehmehr A. and E. Kahya, 2017: Grid-based performance evaluation of GCM-RCM combinations for rainfall reproduction. *Theoretical and Applied Climatology*, Vol. 129 (1-2), 47-57, DOI: 10.1007/s00704-016-1758-1.
- 38) Danandehmehr A. and E. Kahya, 2017: Climate change impacts on catchment-scale extreme rainfall variability: Case Study of Rize Province, Turkey. *Journal of Hydrologic Engineering*, Vol. 22, No. 3, DOI: 10.1061/(ASCE)HE.1943-5584.0001477.
- 39) Sen, O. and E. Kahya, 2017: Determination of flood risk: A case study in the rainiest city of Turkey, *Environmental Modelling & Software*, 93, 296-309, DOI: 10.1016/j.envsoft.2017.03.030.
- 40) Danandehmehr A. and E. Kahya, 2017: A Pareto-optimal moving average multigene genetic programming model for daily streamflow prediction, *Journal of Hydrology*, Vol. 549, 603-615, DOI: 10.1016/j.jhydrol.2017.04.045.
- 41) Meshram S.G., R. Gautam and E. Kahya, 2018: Drought analysis in the Tons River Basin, India during 1969-2008, *Theoretical and Applied Climatology*, Vol. 132, (3-4), 939-951, DOI: 10.1007/s00704-017-2129-2.
- 42) Beyaztaş, U., B.B. Arıkan, B.H. Beyaztaş and E. Kahya, 2018: Construction of prediction intervals for Palmer Drought Severity Index using bootstrap. *Journal of Hydrology*, Vol. 559, 461-470, DOI: 10.1016/j.jhydrol.2018.02.021.

- 43) Vazifekhhah, S. and E. Kahya 2018: Hydrological drought association with extreme phases of North Atlantic and Arctic Oscillations over Turkey and northern Iran. *International Journal of Climatology*, 38 (12), 4459-4475, DOI: 10.1002/joc.5680.
- 44) Tosunoğlu, F., I. Can and E. Kahya, 2018: Evaluation of spatial and temporal relationships between large-scale atmospheric oscillations and meteorological drought indexes in Turkey. *International Journal of Climatology*, 38 (12), 4579-4596, DOI: 10.1002/joc.5698.
- 45) Danandeh Mehr, A., V. Nourani, E. Kahya, B. Hrnjica, A. M. A. Sattar and Z. M. Yaseen, 2018: Genetic programming in water resources engineering: A state-of-the-art review. *Journal of Hydrology*, 566, 643-667, DOI: 10.1016/j.jhydrol.2018.02.043.
- 46) Arıkan, B. B. and E. Kahya, 2019: Homogeneity revisited: Analysis of updated precipitation series in Turkey, *Theoretical and Applied Climatology*, 135 (1-2), 211-220, DOI: 10.1007/s00704-018-2368-x.
- 47) Vazifekhhah, S. and E. Kahya 2019: Hydrological and agricultural drought assessments in a semi-arid basin: Inspecting the teleconnections of climate indices on a catchment-scale. *Agricultural Water Management*, 217, 413-425, DOI: 10.1016/j.agwat.2019.02.034.
- 48) Vazifekhhah, S., F. Tosunoglu and E. Kahya 2019: Bivariate return period and risk analysis of the droughts using a nonparametric multivariate standardized drought index and copulas, *Journal of Hydrologic Engineering*, 24 (5), DOI: 10.1061/(ASCE)HE.1943-5584.0001775.
- 49) Danandehmehr A., A. U. Sorman, E. Kahya and M. H. Afsar, 2019: Climate change impacts on meteorological drought using SPI and SPEI: case study of Ankara, Turkey. *Hydrological Sciences Journal*, 65 (2), 254-268, DOI: 10.1080/02626667.2019.1691218.
- 50) Meshram S.G., E. Alvandi, C. Meshram, E. Kahya and A. M.F. Al-Quraishi, 2020: Application of SAW and TOPSIS in prioritizing watersheds. *Water Resources Management*, 34: 715-732, DOI: 10.1007/s11269-019-02470-x.
- 51) Meshram, S.G., E. Kahya, C. Meshram, M. A. Ghorbani, B. Ambade and R. Mirabbasi, 2019: Long-term temperature trend analysis associated with agriculture crops. *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-020-03137-z.
- 52) Sureh, F.S., M.T. Sattari and E. Kahya, 2020: Monthly precipitation assessments in association with atmospheric circulation indices by using tree-based models. *Natural Hazards*, 102 (3), 1077-1094, DOI: 10.1007/s11069-020-03946-5
- 53) Ghorbani, M.A., R. Khatibi, V. P. Singh, E. Kahya, H. Ruskeepaa, M. K. Saggi, B. Sivakumar, S. Kim, F. Salmasi, M.H. Kashani, S. S. Fard, M. Shahabi and R. Jani, 2020: Continuous monitoring of open-channel suspended sediments using images in machine learning. *Scientific Reports*, 10:8589, DOI: 10.1038/s41598-020-64707-9.
- 54) Danandehmehr A., E. Tas and E. Kahya, 2020: Risk assessment framework for fuel supply pipeline system. *Journal of Pipeline Systems - Engineering and Practice*, 11(4), DOI: 10.1061/(ASCE) PS.1949-1204.0000496.
- 55) Danesh, M.F., M.R.D. Ghaleno, E. Alvandi, S. G. Meshram and E. Kahya, 2020: Predicting the impacts of optimal residential development scenario on soil loss caused by surface runoff and raindrops using TOPSIS and WetSpa models. *Water Resources Management*, 34, 3257-3277, DOI: 10.1007/s11269-020-02611-7.
- 56) Soroush, F., F. Fathian, F. S. H. Khabisi and E. Kahya, 2020: Trends in pan evaporation and climate variables in Iran. *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-020-03262-9.
- 57) Kumar, S., T. Roshni E. Kahya and M.A. Ghorbani, 2020: Climate change projections of rainfall and its impacts on the cropland suitability for rice and wheat crops in the Sone river command, Bihar. *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-020-03319-9.
- 58) Ghorbani, M.A., F. Salmasi, M.K. Saggi and E. Kahya, 2020: Deep learning under H₂O framework: A novel approach for quantitative analysis of discharge coefficient in sluice gates. *Journal of Hydroinformatics*, DOI:10.2166/hydro.2020.003.

- 59) Meshram, S.G., V.P. Singh, E. Kahya, E. Alvandi and C. Meshram, and S. Sharma, 2020: The feasibility of Multi-Criteria Decision Making Approach for Prioritization of Sensitive Area at Risk of Water Erosion. *Water Resources Management*, DOI: 10.1007/s11269-020-02681-7.
- 60) Swalih, SA and E. Kahya, 2020: Hydrological model optimization using multi gauge calibration (MGC) technique in mountainous region. *Journal of Hydroinformatics*, DOI: 10.2166/hydro.2020.034.
- 61) Ghorbani, M.A., E. Kahya, T. Roshni, M.H. Kashani, and A. Malik, 2020: Identify Entropy Analysis and Pattern Recognition of Rainfall in North of Algeria. *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-021-03542-y.
- 62) Sen, O. and E. Kahya, 2020: Climate change impacts on rainfall intensity–duration–frequency curves. *Theoretical and Applied Climatology*, DOI: 10.1007/s00704-021-03592-2
- 63) Sadeqi, A. and E. Kahya, 2021: Spatiotemporal analysis of air temperature indices, aridity conditions and precipitation in Iran. *Theoretical and Applied Climatology*, 145 (1), 703-716, DOI: 10.1007/s00704-021-03658-1
- 64) Meshram, S.G., V.P. Singh, E. Kahya, M. Sepehri, C. Meshram, and K.M. Khedher, 2021: Interval rough AHP and fuzzy logic for assessment erosion prone areas at the regional scale. *Stochastic Environmental Research and Risk Assessment* (revision submitted)
- 65) Swalih, SA and E. Kahya, 2021: Assessing performance of climate reanalysis data on sparsely gauged basins. (submitted)
- 66) Sen, O. and E. Kahya, 2021: Prediction of present and future flood discharges in catchments with sparse data coverage. (in review)
- 67) Rawat, V.S.; R. Thendiyath, E. Kahya, U. Kumar, and P.K. Sinha, 2021: Unraveling flow hydraulics for intermediate roughness conditions in sediment motion over loose block ramps. *Iranian Journal of Science and Technology, Transactions of Civil Engineering* (in review)
- 68) Ghorbani, M.A., S.H. Hosseini, M.H. Fazelifard, E. Kahya, Q.B. Pham and S.S. Sammen, 2021: RDS: Disaggregation System for Design and Evaluation of Random Cascade Model to Generate Sub-Daily Rainfall. *Theoretical and Applied Climatology* (in review)
- 69) Sureh, F.S., M.T. Sattari, Rostamzadeh and E. Kahya, 2021: Meteorological drought assessment and prediction in association with atmospheric circulations via rule based methods. *Information Sciences* (in review)
- 70) Ghorbani, M.A., E. Kahya, H. Ruskeepää, R. Thendiyath, M.H. Kashani, V. Karimi, and B.B. Arıkan, 2021: Complex network for monthly rainfall dynamics over Turkey. *Hydrological Sciences Journal* (in review)
- 71) Meshram, S.G., V.P. Singh, E. Kahya, E. Alvandi, C. Meshram and S. Sharma, 2021: Identification of erosion prone area using morphometric analysis, GIS analysis and multicriteria decision making models. *Information Sciences* (in review)
- 72) Vazifehkhah, S., E. Kahya, W. Gao and A. Delju, 2021: Evaluation of the Euro-CORDEX simulations: How the different metrics can assess the analysis? *Climate Dynamics* (in review)
- 73) Jayababu, T., S. Ganapuram, G.T.V. Kumar, M.C. Demirel and E. Kahya, 2021: Assessing long term shoreline changes in the mouth of Penner River, India using remote sensing and digital analysis. *Earth Sciences Research Journal* (in review)
- 74) Beyaztaş, U., B.B. Arıkan, B.H. Beyaztaş and E. Kahya, 2021: Prediction of streamflow intervals: Coupling ARCH model with Bootstrap. *Water International* (in review)
- 75) Beyaztaş, B.H., U. Beyaztaş and E. Kahya, 2021: A joint forecast model for minimum and maximum temperatures of mid-Turkey. *Journal of Hydroinformatics* (in review)
- 76) Amir Rahmani, M., M.A. Ghorbani, S.S. Sammen, M.H. Kashani, S. Inyurt and E. Kahya, 2021: Prediction of scour depth at downstream of ski-jump spillways using multi-model strategy. *Water Resources Management* (in review)

77) Tosunoğlu, F., I. Can and E. Kahya, 2021: Multi-site stochastic generation of monthly streamflow time series using multivariate AR and ANN models. *Water and Environment Journal* (draft-ready/in submission)

78) Erdem, H. and E. Kahya, 2021: The influence of Madden-Julian Oscillation on precipitation pattern over a region in Midwest Eurasia. *International Journal of Climatology* (draft-ready/in submission)

79) Arıkan, B. B. and E. Kahya, 2021: Drought forecasting using linear genetic programming and large-scale atmospheric oscillation indices. *Journal of Hydrology* (in preparation)

SCI monitored Journal Discussion Papers:

1) Demirel, M.C., E. Kahya and D. Rivera, 2008: Discussion on “Clustering on dissimilarity representations for detecting mislabeled seismic signals at Nevado Del Ruiz Volcano” by Mauricio Orozco-Alzate, and César Germán Castellanos-Domínguez, *Earth Sciences Research Journal*, Vol. 12, No. 2, 265-267

2) Demirel, M.C., E. Kahya and D. Rivera, 2009: Discussion on "Hydrologic regionalization of watersheds in Turkey" by Sabahattin Isik and Vijay P. Singh, *Journal of Hydrologic Engineering*, Vol. 13, No. 9, 824-834
DOI: 10.1061/(ASCE) 1084-0699(2008) 13:9 (824)

EI monitored Papers:

1) Kalaycı, S. ve E. Kahya, 1998: Susurluk Havzası'ndaki Akarsularda Su Kalitesi Trendlerinin Analizi. *DOĞA-Türk Mühendislik ve Çevre Bilimleri Dergisi* (TÜBİTAK), Cilt 22, Sayı 6, 503-514.

2) Karabörk, M. Ç. ve E. Kahya, 1999: Sakarya Havzası'ndaki Akarsu Akımlarının Çok Değişkenli Stokastik Modellemesi. *DOĞA- Türk Mühendislik ve Çevre Bilimleri Dergisi* (TÜBİTAK), Cilt 23, Sayı 6, 133-147.

Other Index monitored Papers:

1) Kalaycı, S. and E. Kahya, 2004: Streamflow trends in Sakarya basin. *ARI, The Bulletin of the Istanbul Technical University*, 54 (3), 79-84.

2) Kahya, E. and M. C. Demirel, 2007: A comparison of low-flow clustering methods: Streamflow grouping. *Journal of Engineering and Applied Sciences*, 2 (3), 524-530.

3) Kahya, E. and T. Partal, 2007: Is seasonal precipitation decreasing or increasing in Turkey? *Online Journal of Earth Sciences*, 1 (1), 43-46

4) Anwar, O. Bég, R. Bhargava, S. Rawat and E. Kahya, 2008: numerical study of micropolar convective heat and mass transfer in a non-darcy porous regime with solet and dufour diffusion effects. *Emirates Journal for Engineering Research*, 13 (2), 51-66.

5) Chang, T-B., O. A. Bég, and E. Kahya, 2010: Numerical study of laminar incompressible velocity and magnetic boundary layers along a flat plate with wall effects. *International Journal of Applied Mathematics and Mechanics*, 6 (5), 99-118.

6) Farshad, F., H. Aliyari, E. Kahya, and Z. Dehghan, 2016: Temporal Trends in Precipitation Using Spatial Techniques in GIS over Urmia Lake Basin, Iran. *International Journal of Hydrology Science and Technology*, 6 (1), 62-81.

National Papers (Turkish):

1) Karabörk, M.Ç. and E. Kahya, 1998: Göksu Nehri'nin Aylık ve Yıllık Akımlarının Otoregressif Modelleri. *Selçuk Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi*, Cilt 13, Sayı 1, 23-36.

2) Cengiz, T.M. and E. Kahya, 2006: Türkiye Göl Su Seviyeleri Eğilim ve Harmonik Analizi. *Itudergisi/d*, 5(3), 215-224.

3) Partal, T., E. Kahya, and K. C., 2008: Yağış Verilerinin Yapay Sinir Ağları ve Dalgacık Dönüşümü Yöntemleri ile Tahmini. *Itudergisi/d*, 7(3), 73-85.

4) Büyükkaracığan, N. ve E. Kahya, 2009: Konya Havzası Akarsuları Yıllık Pik Akım Serilerinin Taşkın Frekans Analizi. *Teknik-Online Dergi*, Cilt 8, Sayı:3, 246-261.

Proceeding Papers:

National (in Turkish):

- 1) Kahya, E. and N. Şarlak, 1998: Critical Drought Analysis of Göksu River Streamflow Using a Markov Chain Model. II. National Hydrometeorology Symposium, Ankara
- 2) Kahya, E. and N. Büyükkaracığan, 1998: Flood Frequency Analysis of Annual Peak Flows in the Susurluk Basin. II. National Hydrometeorology Symposium, Ankara
- 3) Kahya, E. and C. Gürses, 1998: Flood Frequency Analysis of Annual Peak Flows in the Konya Basin by L-Moment Method. II. National Hydrometeorology Symposium, Ankara
- 4) Kahya, E., Ç. Karabörk and S. Kalaycı, 1998: Applications of ARIMA and Multivariate Stochastic Modeling in the Yeşilirmak Basin. II. National Hydrometeorology Symposium, Ankara
- 5) Köse, Ö., E. Kahya and A. Dorum, 1998: Analysis of Drought Parameters in the Central Anatolia. II. National Hydrometeorology Symposium, Ankara
- 6) Karabörk, M.Ç., E. Kahya and M. Karaca, 2002: North Atlantic Oscillation and its Possible Influences over Turkey, First National Climatology Workshop, Ege University, İzmir
- 7) Kahya, E., M.Ç. Karabörk and M. Karaca, 2002: Climatological Analysis of El Nino and La Nina Signals in Turkish Streamflows, First National Climatology Workshop, Ege University, İzmir
- 8) Cengiz, T., E. Kahya and M. Karaca, 2003: Trend Analysis of Lake Levels in the Lake Region. First National Water Engineering Symposium, DSİ, Gümüşdör-İzmir, 22-26 September, 2003
- 9) Partal, T., E. Kahya and M. Karaca, 2003: Trend Analysis of Precipitation in the Lake Region. First National Water Engineering Symposium, DSİ, Gümüşdör-İzmir, 22-26 September, 2003
- 10) Ezber, Y., Y. Ünal, E. Kahya and M. Karaca, 2003: North Atlantic Oscillation: Comparison of Two Different Years by Regional Climate Model. Sırrı Erinç Symposium 2003, Istanbul University, Istanbul
- 11) Demirel, M.C., E. Kahya and G. Karaçuha, 2004: Separation of Seasonal Streamflow across Turkey by Cluster Analysis. First National Dams and Hydro-electrical Power Plants, State Water Works General Directorate, Ankara, Turkey
- 12) Kalaycı, S., E. Kahya and G. Karaçuha, 2004: Streamflow Variability in Turkey. First National Dams and Hydro-electrical Power Plants, State Water Works General Directorate, Ankara, Turkey
- 13) Demirel, M.C., E. Kahya, T. Kindap and M. Karaca, 2005: Classification of Turkish Precipitation and Streamflow Data by Cluster Analysis, Second National Water Engineering Symposium, DSİ, Gümüşdör-İzmir, 21-24 September, 2005
- 14) Kahya, E. and A.İ. Martı, 2007: The Relationships of Turkish Streamflow Data with Southern Oscillation. III. National Water Engineering Symposium, DSİ, Gümüşdör-İzmir, 10-14 September, 2007
- 15) Partal T., H.K Cıgızoğlu and Kahya E., 2007: Application of NNW and Wavelet Analysis Together on Precipitation Forecast, V. National Hydrology Congress, 5-7 September, 2007, METU/Ankara
- 16) Can, İ., C. Yerdelen and E. Kahya, 2008: Prediction of Missing Streamflow Data in Çoruh Basin Using ANN Method. Flood, Avalanche and River Bed Protection Conference, DSI, 07-08 August 2008, Trabzon
- 17) Güney, Ş.C., İ. Akyüz, F.M. Yılmaz and E. Kahya, 2008: Searching North Atlantic Oscillation Signals on Hydrologic Data in East Black Sea and Çoruh Basins. Flood, Avalanche and River Bed Protection Conference, DSI, 07-08 August 2008, Trabzon
- 18) Yılmaz, F.M., İ. Akyüz, Ş.C. Güney, M.E. Savcı and E. Kahya, 2008: Influences of North Atlantic Oscillation on Flow and Precipitation Data in Konya Basin. Groundwater and Drought Conference, DSI, 11-12 September 2008, Konya
- 19) Güney, Ş.C., İ. Akyüz, F.M. Yılmaz and E. Kahya, 2008: Determination of North Atlantic Oscillation Influences on Hydrologic Data in Kızılırmak Basin. Water and Energy Conference, DSI, 10-12 September 2008, Artvin

- 20) Can, İ., E. Kahya, C. Yerdelen, F. Tosunoglu, and H. Erdem, 2009: ARMA and ANN Modeling of Monthly Streamflow in Çoruh Basin. IV. National Water Engineering Symposium, DSI, 6-10 July 2009, Orhantepe/Istanbul.
- 21) Yerdelen, C., Y. Karami, I. Can ve E. Kahya, 2009: Application of Classical Moments and L-moments methods on Streamflow Data in Çoruh Basin. IV. National Water Engineering Symposium, DSI, 6-10 July 2009, Orhantepe/Istanbul.
- 22) Yerdelen, C., E. Cagda, ve E. Kahya, 2009: Completion of missing Streamflow Data in Gediz Basin. IV. National Water Engineering Symposium, DSI, 6-10 July 2009, Orhantepe/Istanbul.
- 23) Şen, O. ve E. Kahya, 2011: Türkiye Minimum Akım Değişkenlerinin Trend Analizi. V. Ulusal Su Mühendisliği Sempozyumu, DSI, 12-16 Eylül 2011, Orhantepe, İstanbul.
- 24) Özger, M., A. Danandeh Mehr, and E. Kahya, 2013. A fuzzy logic approach for flood risk management: An application - Mehranrood, Iran. Flood Symposium, 325-336.Trabzon, Turkey (in Turkish).
- 25) Tosunoglu, F. and E. Kahya, 2019. Use of Coppula functions in the two-variables flood frequency analysis. X. National Hydrology Congress, October, 9-12 2019, MSKU/Muğla, Turkey.

International:

- 1) Dracup, J. A. and E. Kahya, 1992: The Potential for Long-Range Streamflow Forecasting Based on ENSO. Proceedings of 16th Annual Climate Diagnostics Workshop, U.S. Government. Printing Office, Washington, DC, USA.
- 2) Kahya, E. and J. A. Dracup, 1993: The Relationships Between ENSO Events and Streamflows in California, in “The World at Risk: Natural Hazards and Climate Change”, edited by R. Bras, pp. 86-96, *American Institute of Physics (AIP) Conference Proceedings 277*, New York.
- 3) Kahya, E and J. A. Dracup, 1993: Streamflow and La Nina Event Relationship in the ENSO-Streamflow Core Areas. Proceedings of 9th Annual Pasific Climate (PACCLIM) Workshop, Asilomar, CA, USA.
- 4) Büyükkaracıgan, N. and E. Kahya, 1997: The Dependency Analysis of Annual Peak Flows of Streams in Konya Basin. Proceedings of International Conference on Water Problems in Mediterranean Countries, Nicosia, North Cyprus.
- 5) Karabörk, M. Ç. and E. Kahya 1997: Autoregressive Modeling of Annual and Monthly Streamflows. Proceedings of International Conference on Water Problems in Mediterranean Countries, Nicosia, North Cyprus.
- 6) Kahya, E., S. Kalaycı and Y. Burdurlu, 1998: Analysis of Trends in the Water Quality Parameters of Gediz Basin. Proceedings of 1st International Workshop on “Environmental Quality and Environmental Engineering in the Middle East Region”, Konya, Turkey.
- 7) Karabörk, M.Ç. and E. Kahya, 2002: The Teleconnections Between Turkish Streamflows and Large-scale Atmospheric Circulation Patterns. The Fifth Congress on Advances in Civil Engineering (ACE 2002), İstanbul Teknik Üniversitesi, İstanbul.
- 8) Martı, A.I. and E. Kahya, 2002: The Analysis of the Southern Oscillation Signals in Turkish Streamflow. The Fifth Congress on Advances in Civil Engineering (ACE 2002), İstanbul Teknik Üniversitesi, İstanbul, Turkey.
- 9) Kalaycı, S. and E. Kahya, 2002: Streamflow Trends in Sakarya Basin. The Fifth Congress on Advances in Civil Engineering (ACE 2002), İstanbul Teknik Üniversitesi, İstanbul, Turkey (Bu bildiri seçilerek ARI dergisinde makale olarak yayınlanmıştır).
- 10) Kalaycı, S, E. Kahya and S. Kabdaşlı, 2002: Variability of Akşehir and Eber Lake Levels in Turkey. Third International Symposium on AGRO-ENVIRON 2002, Cairo, Egypt.
- 11) Kahya, E., Ç. Karabörk and M. Karaca, 2002: The Influences of Large-scale Atmospheric Circulation Patterns on the Tigris-Euphrates Streamflows. Third International Symposium on AGRO-ENVIRON 2002, Cairo, Egypt.
- 12) Kahya, E. and S. Kalaycı, 2002: Streamflow Variability in Turkey: Third International Symposium on AGRO-ENVIRON 2002, Cairo, Egypt.

- 13) Kahya, E., A.I. Martı and M. Karaca, 2002: The Signature of the Southern Oscillation Extreme Events in Turkish Precipitation Patterns. Third International Symposium on AGRO-ENVIRON 2002, Cairo, Egypt.
- 14) Partal, T., E. Kahya, D. Şeker and S. Kabdaşlı, 2003: Precipitation Trends in the Aegean Region. XXX IAHR Congress, Thessaloniki, Greece.
- 15) Karabörk, M.Ç., E. Kahya and M. Karaca, 2003: The Influences of Large-scale Atmospheric Oscillations on Turkish Precipitations. XXX IAHR Congress, 24-29 August 2003, Thessaloniki, Greece.
- 16) Karaca, M., R.J. Nicholls and E. Kahya, 2003: Potential Coastal Implications of Accelerated Sea-level Rise for Turkey. XXX IAHR Congress, 24-29 August 2003, Thessaloniki, Greece.
- 17) Cengiz, T., E. Kahya and M. Karaca, 2003: Trends and Annual Cycles in Turkish Lake Levels. XXX IAHR Congress, 24-29 August 2003, Thessaloniki, Greece.
- 18) Karabörk, M. Ç., A. Ü. Kömüşçü and E. Kahya, 2004: The Quantification of the Relationships Between El Nino and Precipitation Patterns in the Aegean Region. The Sixth International Congress on Advances in Civil Engineering (ACE 2004), Boğaziçi University, İstanbul, Turkey
- 19) Kalaycı, S, M. Buyukyıldız and E. Kahya, 2004: Are the Major Stream Flow Variables Decreasing in Susurluk Basin (Turkey)? AGRO-ENVIRON 2004, Udine, Italy.
- 20) Büyükyıldız, M., S. Kalaycı ve E. Kahya, 2006: Marmara Bölgesi Nehirlerinde YüzeY Suyu Kalitesi Verilerinin Trend Analizi. 7th International Congress on Advances in Civil Engineering (ACE 2006), Yıldız Technical University, İstanbul, Turkey
- 21) Kahya, E., and T. Cengiz, 2007: North Atlantic Oscillation signals in the series of Beyşehir lake-levels (Turkey). AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 22) Kahya, E., M. C. Demirel and T.C. Piechota, 2007: Spatial grouping of annual streamflow patterns in Turkey. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 23) Kalaycı, M.C. and E. Kahya, 2007: Comparison of rotated and unrotated principal components of Turkish streamflow. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 24) Karabörk, M. Ç. and E. Kahya, 2007: The links between the categorized Southern Oscillation indicators and precipitation patterns over Turkey. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 25) Şeşeoğulları, B., E. Eriş and E. Kahya, 2007: Trend analysis of sea levels along Turkish coasts. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 26) Can, İ., C. Yerdelen and E. Kahya, 2007: Stochastic modeling of Karasu River (Turkey) using the methods of Artificial Neural Networks. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 27) Kahya, E. and A.İ. Martı, 2007: Do El Niño events modulate the statistical characteristics of Turkish streamflow? AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 28) Martı, A.İ. and E. Kahya, 2007: ENSO effects on mean temperature in Turkey. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 29) Demirel, M.C., A.J. Mariano and E. Kahya, 2007: Performing k-means analysis to drought principal components of Turkish rivers. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 30) Demirel, M.C. and E. Kahya, 2007: Hydrological determination of hierarchical clustering scheme by using small experimental matrix. AGU Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.
- 31) Kalaycı, S., M. Büyükyıldız, E. Kahya and M. Alp, 2007: Marmara Havzası nehirlerinde yüzeY suyu kalitesi verilerinin farklı gözlem yıllarındaki değişimleri. Global Climate Change and Its Environmental Impacts: Regional and Local Dimensions, 18-20 October, Konya, Turkey.

- 32) Kahya, E., S. Kalaycı, M.Ç. Karabörk, A.I. Martı, M.C. Demirel, and T. Partal, 2007: Türkiye verilerinin genel hidroklimatolojik davranışları: İklim değişikliği nabzının teşhisi. *Global Climate Change and Its Environmental Impacts: Regional and Local Dimensions*, 18-20 October, Konya, Turkey.
- 33) Büyükkaracıoğlu, N. and E. Kahya, 2007: Taşkın frekans analizinde kullanılan değişik dağılımların Konya havzası yıllık pik akım serilerine uygulanıp karşılaştırılması. *Global Climate Change and Its Environmental Impacts: Regional and Local Dimensions*, 18-20 October, Konya, Turkey.
- 34) Demirel, M.C., F. Martins and E. Kahya, 2008: Impact of waste water discharges in Ria Formosa coastal lagoon (Portugal). *Proceedings of the MWW 2008-5th International Conference on Marine Waste Water Discharges and Coastal Environment*, October 27-31, Cavtat-Croatia.
- 35) Yılmaz, M. F. and E. Kahya, 2009: The Influences of NAO on climate variables in Konya basin. *The 5th World Water Forum March 16-22, Istanbul, Turkey* (poster)
- 36) Nazemosadat, S.M.J., V. Ravan and E. Kahya, 2012: "Application of the general circulation model ECHAM5 for the estimation of the projected temperature over the central southern parts of Iran for the period 2011-2040" *Global Conference on Global Warming-2012 (GCGW-2012)*, July 8-12, Istanbul, Turkey.
- 37) Kahya, E., A. Danandeh Mehr, D. Bozkurt, and M. Özger, 2014. Evaluation of the performance of global circulation models for rainfall prediction over Rize catchment, 11th International Congress on Advances in Civil Engineering (ACE 2014), Istanbul, Turkey.
- 38) Kahya, E., A. Danandeh Mehr, O. Sen, and M. Özger, 2015. Climate change impacts on extreme rainfalls over Rize province, Turkey. *10th International Congress on Civil Engineering*, 5-7 May 2015 University of Tabriz, Tabriz, Iran.
- 39) Kahya, E., A. Danandeh Mehr, O. Şen, A. Akçakay and M. Özger, 2016. A comparative study on the current and future design storms over Rize province, Turkey. *12th International Congress on Advances in Civil Engineering (ACE 2016)*, September 21-23, Boğaziçi University, İstanbul, Turkey.
- 40) Kahya, E. and S. A. Swalih, 2016. Comparison of the SWAT simulations using precipitation data from observation and CFSR estimations in the Rize basin (Turkey). *12th International Congress on Advances in Civil Engineering (ACE 2016)*, September 21-23, Boğaziçi University, İstanbul, Turkey.
- 41) Kahya, E., B. B. Arıkan, and E. Akdeniz 2016. Homogeneity Analysis of Precipitation Series in Turkey. *12th International Congress on Advances in Civil Engineering (ACE 2016)*, September 21-23, Boğaziçi University, İstanbul, Turkey.
- 42) Kahya, E. and H. Erdem, 2016. The influence of Madden-Julian Oscillation on precipitation patterns in Turkey. *12th International Congress on Advances in Civil Engineering (ACE 2016)*, September 21-23, Boğaziçi University, İstanbul, Turkey.
- 43) Kahya, E., S. Vazifekhhah and H. Erdem, 2016. Impacts of extreme phases of North Atlantic Oscillation on streamflow in western Turkey. *12th International Congress on Advances in Civil Engineering (ACE 2016)*, September 21-23, Boğaziçi University, İstanbul, Turkey.
- 44) Erdem, H. and E. Kahya, 2016. Rainfall Prediction Influenced by Madden Julian Oscillation Based on Genetic Programming. *Soft Computing Methods in Water Resources Engineering*, November 29, 2016, ITU-KKTC, Nicosia, North Cyprus (poster).
- 45) Arıkan, B. B. and E. Kahya, 2016. Long Term PDSI Drought Forecasting Using Genetic Programming: A Case Study in Konya Province, Turkey. *Soft Computing Methods in Water Resources Engineering*, November 29, 2016, ITU-KKTC, Nicosia, North Cyprus.
- 46) Vazifekhhah, S. and E. Kahya, 2016. Monthly Discharge Approximation Using Artificial Neural Network, Case Study of Qezeluzan Catchment, Iran. *Soft Computing Methods in Water Resources Engineering*, November 29, 2016, ITU-KKTC, Nicosia, North Cyprus.
- 47) Vazifekhhah, S. and E. Kahya, 2016. ANFIS based monthly precipitation estimation, case study of Konya closed basin, Turkey. *Soft Computing Methods in Water Resources Engineering*, November 29, 2016, ITU-KKTC, Nicosia, North Cyprus (poster).

48) Swalih, S.A. and E. Kahya, 2017. Assessing the performance of ECMWF reanalysis data in the East Black Sea Region. 8th Atmospheric Sciences Symposium (ATMOS 2017), 01-04 November 2017, Istanbul/TURKEY.

49) Erdem, H. and E. Kahya, 2017. The Influence of Madden-Julian Oscillation on Precipitation Pattern in Eastern Anatolia Region of Turkey. 8th Atmospheric Sciences Symposium (ATMOS 2017), 01-04 November 2017, Istanbul/TURKEY.

50) Vazifekhhah, S. and E. Kahya, 2017. Precipitation series evaluation of CMIP5 GCMs on a basin scale. 8th Atmospheric Sciences Symposium (ATMOS 2017), 01-04 November 2017, Istanbul/TURKEY.

51) Arıkan, B. B. and E. Kahya, 2017. Drought Forecasting Using Genetic Programming In Association with Atmospheric Oscillation Indices. 8th Atmospheric Sciences Symposium (ATMOS 2017), 01-04 November 2017, Istanbul/TURKEY.

52) Beyaztaş, U., B.B. Arıkan, B.H. Beyaztaş and E. Kahya, 2017. Construction of prediction intervals for palmer drought severity index using Bootstrap. 8th Atmospheric Sciences Symposium (ATMOS 2017), 01-04 November 2017, Istanbul/TURKEY.

53) Kahya, E. and F. Tosunoglu, 2019. Definition of the best probability distribution functions for annual minimum flows of different durations 4th International Conference on Buildings, Construction and Environmental Engineering (BCEE4 2019), October 7-9, 2019, Istanbul/TURKEY.

54) Mahsa H.Kashani, M.H., E. Kahya, M. A. Ghorbani, 2019. Prediction of the sodium absorption ratio using the GEP model Case study: Darreh Rud River, Iran. IV International Scientific and Vocational Studies Congress-Engineering (BILMES EN 2019) 7-10 November 2019, Ankara/TURKEY.

Abstracts:

1) Kahya, E and J. A. Dracup, 1992: The Analysis of United States Streamflow Fluctuations in Association to the Southern Oscillation. *Abstract* of the paper presented at American Geophysical Union (AGU) Meeting, San Francisco, CA.

2) Demirel, M. C., Karaca, M., Martins, F. and Kahya, E., 2006: A Comparison of Low Flow Clustering Methods: Streamflow Grouping. *Abstract* of the paper presented at the Meeting / Conference: EGU General Assembly 2006, April 2-7, 2006 Vienna, Austria, Geophysical Research Abstracts, Vol. 8, 01373, 2006.

3) Kahya, E. and M. C. Demirel, 2007: Evaluation of Multivariate Statistical Methods for Characterizing Annual Streamflow Regimes in Turkey. *Abstract* of the paper accepted to be presented at the Meeting / Conference: EGU General Assembly 2007, April 2-7, 2007 Vienna, Austria, Geophysical Research Abstracts.

4) Demirel, M. C., Karaca, M., Martins, F. and Kahya, E., 2007: The NAO Influences on Sapanca Lake-levels by Wavelet Analysis. *Abstract* of the paper accepted to be presented at the Meeting / Conference: EGU General Assembly 2007, April 2-7, 2006 Vienna, Austria, Geophysical Research Abstracts.

5) Kömüştü, A.Ü. and E. Kahya, 2007: Historical drought occurrences in Turkey: An analysis based on the standardized precipitation index (SPI). *Abstract* of the paper accepted to be presented at the Conference: Hydrology Days 2007, 19-21 March, Colorado State University, CO, USA.

6) Kahya, E., 2015. Large-Scale Atmospheric Circulations Impacts on Eastern Mediterranean Region, 10th International Congress on Civil Engineering, 5-7 May 2015 University of Tabriz, Tabriz, Iran.

Research Reports:

As a Principal Investigator:

1) Kahya, E. and M. Ç. Karabörk, 1998: Streamflow Stochastic Modeling. Selçuk University Research Grand, Project No. 96/155, (in Turkish)

2) Kahya, E., M. Karaca and T. Kındap, 2004: The Analysis of Turkish Streamflow and Precipitation Patterns in Relation to the Large-Scale Atmospheric Circulations. Istanbul Technical University Research Activities Secretariat (in Turkish)

- 3) Kahya, E. and T. Partal, 2004: Trend Analysis of Turkish Precipitation Patterns. Istanbul Technical University Research Activities Secretariat (in Turkish)
- 4) Kahya, E. and M.C. Demirel, 2004: Cluster Analysis of Turkish Streamflow. Istanbul Technical University Research Activities Secretariat (in Turkish)
- 5) Kahya, E. and T. Cengiz, 2005: Hydroclimatological Analysis of Lake Levels in Turkey. Istanbul Technical University Research Activities Secretariat (in Turkish)
- 6) Kahya, E. and others, 2006: Analysis of Changes in Characteristic Features and Distributions of Turkish Precipitation Time Series due to the Influences of El Nino and La Nina Events. TUBITAK (Turkish NSF) Research Project (in Turkish)
- 7) Kahya, E. and others, 2008-2011: Cluster Analysis of Turkish Flow Data: Forecasting and Regionalization of Extreme Values with Trend Determination. TUBITAK (Turkish NSF) Research Project (in Turkish)
- 8) Kahya, E. et al., 2012-2015: Flood Risk Assessment of water basins in Rize province: Present and future state in regard to climate models. ÇAYDAG 112Y204 nolu TUBITAK (Turkish NSF) Research Project (in Turkish).
- 9) Kahya, E and M.A. Ghorbani, 2020: Temporal variation of deterministic chaos and complex dynamics in monthly rainfall analysis of Turkey. BIDEB 2221 (2019/4).

As an Investigator:

- 1) Kahya, E. and J. A. Dracup, 1991: U.S Streamflow Patterns Associated with the El Nino/Southern Oscillation: The Potential for Long-Range Streamflow Forecasting. Research Project funded by Metropolitan Water District (MWD) of Southern California, Los Angeles, USA, Agreement No.2501.
- 2) Dracup, J. A. and E. Kahya, 1993: U.S Streamflow Patterns Associated with La Nina Events. Research Project funded by UC Water Resources Center, Los Angeles, USA, Grand No. W 787
- 3) C.H.K., E. Kahya, and et. al., 2005: Analysis of Rainfall-Runoff Relation by Neural Networks in Turkey. TUBITAK (Turkish NSF) Research Project, No: ICTAG 1841 (in Turkish).
- 4) Dalfes, N., Ü. Akkemik, M. Karaca, E. Kahya, and N. Dağdeviren, 2005: The Last 500 Years of Anatolian Climate History: Dendroclimatological Reconstructions and Space-Time Analyses. TUBITAK (Turkish NSF) Research Project, No: 102Y063 (in Turkish).
- 5) Kalaycı, S., A. Şahin and E. Kahya, 2006: Trend Analysis of Surface Water Quality Parameters of Rivers in Marmara Basin. TUBITAK (Turkish NSF) Research Project, No: YDABAG 104Y040 (in Turkish).
- 6) Karaca, M., E. Kahya and et. al., 2006-2008: Southern Anatolia Project – Regional Climate Change and Evaluation of Water Resources Potentials. DPT Project, No: 90187, continued (in Turkish).
- 7) Can, İ., E. Kahya and C. Yerdelen, 2007: Stochastic Modeling of River Flows in Çoruh Basin: A Simple Hydroclimatologic Analysis. TUBITAK (Turkish NSF) Research Project, No: ÇAYDAG, continued (in Turkish).

Technical Reports:

- 1) **Principal Investigator:** Kahya, E, 2003: Technical Report for Breakwater Construction on the Outlet of Büyükyalı Stream (Idealtepe/Istanbul), ITU R&D Project No: 106 (in Turkish).
- 2) **Principal Investigator:** Kahya, E, 2003: Technical Report for Necessity for the Breakwater Construction on the Outlet of Kaynarca Stream (Pendik/Istanbul), ITU-Water and Sea Sciences Technology Center (in Turkish).
- 3) **Principal Investigator:** Kahya, E and S. Kabdaşlı, 2003: Technical Report for Breakwater Construction on the Fill Side of the Outlet of Kurbağalı Stream (Moda/Istanbul), ITU-Water and Sea Sciences Technology Center (in Turkish).
- 4) **Principal Investigator:** Kahya, E, M. Karaca and S. Kabdaşlı, 2004: Technical Report for Breakwater Construction on the Outlet of Kaynarca Stream (Pendik/Istanbul), ITU-Water and Sea Sciences Technology Center (in Turkish).

- 5) **Principal Investigator:** The influences of Konaktepe Dam and HES I-II Projects on Social and Economical Developments in the Region, İTÜ R&D Technical Report (2010) (in Turkish).
- 6) **Principal Investigator:** Water Isolation and Drainage Project in Heybeliada TEMKO Buildings, İTÜ R&D Technical Report (2012) (in Turkish).
- 7) **Principal Investigator:** KGM Preliminary Evaluation Report of Canal Istanbul Project, İTÜ Technical Report I & II (2013 & 2014) (in Turkish).
- 8) **Principal Investigator:** Flood Analysis at Aksu River, Giresun, İTÜ R&D Technical Report (2014) (in Turkish).
- 9) **Principal Investigator:** AKSA- Risk Analysis of Coastal Contamination, İTÜ-KKTC Technical Report (2016) (in Turkish).

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