

ERCAN KAHYA

Istanbul Technical University
Civil Engineering Dept./Water Resources & Hydraulic Division
34469 Ayazağa Campus, Maslak / İstanbul – TÜRKİYE

Work : +90 (212) 285 3002
Mobile : +90 (531) 297 0353
Fax : +90 (212) 285 3710
E-mail 1 : kahya@itu.edu.tr
E-mail 2 : ercan.kahya@hotmail.com
Web site : <http://akademi.itu.edu.tr/kahya/>

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 university matters in raising the rank of the institution worldwide besides all known tasks that a rector should handle
- 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

2021 - present **Professor**, Department of Hydromechanics Engineering (part-time)
Tashkent Institute of Architecture and Civil Engineering, Uzbekistan

[Teaching graduate level courses; Undertaking various water resources and hydro-meteorological researches; Presenting papers in international and national conferences; Supervising graduate students; etc.]

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

[Teaching undergraduate level courses; Undertaking various water resources and hydro-

meteorological researches; Presenting papers in international and national conferences; Participating in various academic commissions; Supervising graduate students; Developing curriculum, and all other required academic activities]

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

[Same as above]

2006 - 2008 **Assoc. Prof.**, Department of Civil Engineering
Istanbul Technical University (ITU), Istanbul

[Same as above]

2004 - 2006 **Visiting Assoc. Prof.**, Department of Civil Engineering
American University in Dubai (AUD), UAE

[Same as above]

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 5th among 300 graduates at ITU
 1985 - 1991 Ranked 2nd 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

SUSTAINABLE WATER RESOURCES; CLIMATE CHANGE; SURFACE WATER HYDROLOGY;
 HYDROCLIMATOLOGY; HYDRAULICS; COASTAL ENGINEERING; ENVIRONMENTAL ENGINEERING;
 ENTREPRENEURSHIP

- * 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 (UAE)

- ✦ 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 ACTIVITY

- 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 ACTIVITY

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. Karabork 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 a full professor at Ondokuz Mayıs 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 Vazifekhhah, 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) Sead Ahmed, 2022 (İTÜ): Assessing the performance of gridded precipitation products: A comparative analysis of the Black Sea and East Africa regions.
- 11) Hilal Erdem (İTÜ- thesis): Prediction of seasonal precipitation and extreme flow in Turkey based on Maden-Julian Oscillation.

CONFERENCE ACTIVITY

- 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, Australia 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) **Invited Speaker:** The 5th International Conference on "Natural Resources and Sustainable Environmental Management, NSREM-2021" Lefkoşa, Northern Cyprus, November 8-12, 2021.
- 18) **Invited Speaker:** Panel on “Conservation of Architectural Heritage in Uzbekistan” Tashkent Institute of Architecture and Civil Engineering, Tashkent, January 12, 2022.

- 1) **Speaker:** 16th Annual Climate Diagnostics Workshop, UCLA, Los Angeles, USA, October 28-November 1, 1991.
- 2) **Speaker:** 9th Annual Pacific Climate (PACLIM) Workshop, Asilomar, CA, USA, April 21-24, 1992.
- 3) **Speaker:** 17th Annual Climate Diagnostics Workshop, University of Oklahoma, Norman, USA, October 19-23, 1992.
- 4) **Speaker:** Hydrometeorology Session at American Geophysical Union (AGU) Meeting, San Francisco, USA, Fall 1992
- 5) **Speaker:** International Conference on “Water Problems in Mediterranean Countries”, NEU, Nicosia, North Cyprus, November 17-21, 1997 <Presented two articles>
- 6) **Speaker:** 1st International Workshop on “Environmental Quality and Environmental Engineering in the Middle East Region” Symposium, Konya, Turkey, October 5-7, 1998
- 7) **Speaker:** 1st National Climatology Workshop, Ege Uni., İzmir, Turkey, April 11-13, 2002 <Co-author of 2 articles>
- 8) **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>
- 9) **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>
- 10) **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>
- 11) **Speaker:** AGU Hydrology Days 2007, Colorado State University, Fort Collins, USA March 19-21, 2007
< Co-author of 2 oral and 9 poster papers>
- 12) **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]

CITATION

◆ Web of Science	: 3.807	◆ h-index: 31
◆ Scopus	: 4.210	◆ h-index: 32
◆ ResearchGate	: 6.075	◆ h-index: 35
◆ Google Scholar	: 6.939	◆ h-index: 36

INTERNATIONAL PROJECT INVOLVEMENT

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

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
- ◆ (4) 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
- ◆ (3) Natural Hazards
- ◆ (2) Physics and Chemistry of the Earth
- ◆ (2) Proceedings of ICE Journal - Water Management
- ◆ (2) Sadhana/Academy Proceedings in Eng. Science
- ◆ (1) Science of the Total Environment
- ◆ (2) Scientia Iranica Journal
- ◆ (1) Singapore Journal of Tropical Geography
- ◆ (4) Theoretical and Applied Climatology
- ◆ (1) Universal Journal of Civil Engineering
- ◆ (8) Water and Environment Journal
- ◆ (2) Water Management
- ◆ (2) Water Resources Management (WARM)
- ◆ (4) Water Resources Research
- ◆ (1) Water Science and Technology

Gross Total: 121 (Revision reviews of 33 included)

“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)

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:** Dinpashoh, et al. (2011) < paper no: 22 >
- ◆ 2016- : **Rank: # 7** **Journal:** *Journal of Hydrology*, **Article:** Dinpashoh, et al. (2011) < paper no: 22 >

MISCELLANEOUS ACADEMIC ACHIEVEMENTS

- ◆ 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 total number of Turkish scientists in this list is 857)
- ◆ 2021: Taking place in the list of 190.063 top scientists worldwide (RE: Stanford Uni./PLOS Biology Journal)
. (Note: The total number of Turkish scientists in this list is 1.150)
- ◆ 2022: Taking place in the list of 200.409 top scientists worldwide (RE: Stanford Uni./PLOS Biology Journal)
. (Note: The total number of Turkish scientists in this list is 1.202)
- ◆ 2022: Ranking at top 2% - 434 in the list of total citation among 26.533 scientists in Türkiye -
. (RE: AD Scientific Index)

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- 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, 2022: *Spatial and temporal linkages between large-scale atmospheric oscillations and drought indices*. (submitted) In: D. Jhajharia (eds) *Integrated Drought Management Handbook* (will be submitted soon)

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.
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- 14) Béğ, A.O., J. Zueco, T.A. Béğ, 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.
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- 51) 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.
- 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.
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- 61) Ghorbani, M.A., E. Kahya, T. Roshni, M.H. Kashani, and A. Malik, 2021: Entropy analysis and pattern recognition in rainfall data, north Algeria. *Theoretical and Applied Climatology*, 144 (1), 317-326, DOI: 10.1007/s00704-021-03542-y.
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INTERNATIONAL RESEARCH COLLABORATIONS & REFERENCES (Among others)

- 1) **O. Anwar BEG**, Ph.D. (Professor)
Sheffield Hallam University
Mechanical Engineering Department
Sheaf Building, Room 4112
Sheffield, S1 1WB, England UK
E-mail: O.Beg@shu.ac.uk
- 2) **Jafar NAZEMOSADAT**, Ph.D. (Professor)
Professor, Water Engineering Department,
Director of the Oceanic and Atmospheric Research Center
College of Agriculture
Shiraz University, Shiraz/Iran
E-mail jafar@shirazu.ac.ir and mjnazemosadat@yahoo.com
Phone # +98 711 2286304 (office) +98 917 311 4338
- 3) **Sarita Gajbhiye MESHRAM**, Ph.D.
Department for Management of Science and Technology Development
Faculty of Environment and Labour Safety,
Ton Duc Thang University, Ho Chi Minh City, Vietnam
Phone # 09548615441
E-mail: gajbhiyesarita@gmail.com
- 4) **Mohammad Ali GHORBANI**, Ph.D. (Professor)
Department of Water Engineering
Faculty of Agriculture
University of Tabriz, Iran
E-mail: ghorbani@tabrizu.ac.ir
- 5) **Jhajharia DEEPAK**, Ph.D. (Associate Professor)
Department of Agricultural Engineering,
North Eastern Regional Institute of Science & Technology,
Nirjuli, Itanagar, Arunachal Pradesh (India)
Phone # 257335(R), STD Code:0360
Fax No: +91 - 0360 - 257872/244307

6) **Yagoup DIANPOUSH**, Ph.D. (Associate Professor)
Department of Water Engineering
Faculty of Agriculture
University of Tabriz, Iran
E-mail: dinpashoh@yahoo.com
Phone # +98 0411 339 2774; Fax: +98 0411 335 6007

7) **Mohammad Taghi SATTARI**, Ph.D. (Associate Professor)
Department of Water Engineering
Faculty of Agriculture
University of Tabriz, Iran
E-mail: mtsattar@gmail.com