

## CIRRICULUM VITAE (CV)



### PERSONAL

**Name-Surname** : ISMAIL DABANLI  
**Address** : Bahçelievler Mah. Sultan Murat Cad. Bağatur Sok. No:37/2 Üsküdar/Istanbul  
**Mobile Phone** : +90 543 406 0107  
**Nationality** : Türkiye  
**Marital Status** : Married and (2 children)  
**E-mail** : [dabanli@itu.edu.tr](mailto:dabanli@itu.edu.tr) - [dabanliismail@gmail.com](mailto:dabanliismail@gmail.com)

### EDUCATION

2010-2017	Istanbul Technical University (ITU), Hydraulics and Water Resources Engineering, (Master+PhD) (3.83/4.00)
2007-2011	Istanbul Technical University (ITU), Architecture, Bachelor, (3.46/4.00)
2005-2010	Istanbul Technical University (ITU), Civil Engineering, Bachelor, (3.44/4.00)
2002-2005	Bolvadin Anatolian High School (5.00/5.00 - Top of the School)

### PROFESSIONAL/ACADEMIC

2021-Now	Assoc. Prof. Dr.	Istanbul Technical University (ITU), Civil Engineering Department
2019-2021	Assoc. Prof. Dr.	Istanbul Medipol University, Civil Engineering Department
2017-2019	Assist. Prof. Dr.	Istanbul Medipol University, Civil Engineering Department
2016-2017	Visiting Scholar	Clemson University, Glenn Department of Civil Engineering, USA
2011-2016	Research Assist.	Istanbul Technical University (ITU), Civil Engineering Department

### PROFESSIONAL/ADMINISTRATIVE

2021-2023	Vice Secretary in General	Istanbul Technical University (ITU)
2021-2023	Advisor to the Rector	Istanbul Technical University (ITU)
2019-2021	Vice Director of Climate Research Center	Istanbul Medipol University
2017-2020	Vice Head of Civil Engineering Department	Istanbul Medipol University

### PHD THESIS

- Climate Change Effects on Water Resources in Akarcay Basin

### MEMBERSHIP/NOMINATION

- Official IPCC AR6 Lead Author Nomination by Republic of Türkiye Ministry of Environment, Urbanization and Climate Change
- Turkish Chamber of Civil Engineering
- Turkish Chamber of Architecture

## ACADEMIC PAPERS

### a) Book Chapter

1. **Dabanli İ.**, Orman Yangınları: Sebepleri, Etkileri, izlenmesi, Alınması Gereken Önlemler ve Rehabilitasyon Faaliyetleri /ed. Taşkın Kavzoğlu. --Ankara: Turkish Academy of Sciences, 2021, <https://doi.org/10.53478/TUBA.2021.038>
2. Güçlü Y.S., **Dabanli İ.**, Şişman E., Şen Z., Exergy for Better Environment and Sustainability, Vol. 2, Part 2, Chapter 14, 2018 Springer Nature, New York, <https://doi.org/10.1007/978-3-319-62575-1>
3. Güçlü Y.S., **Dabanli İ.**, Şişman E., Short and Long-Term Solar Radiation Estimation Method, Progress in Exergy, Energy, and the Environment, 2014 Springer, New York, [http://doi.org/10.1007/978-3-319-04681-5\\_48](http://doi.org/10.1007/978-3-319-04681-5_48)

### b) SCI-E Papers

1. Ömer Ekmekcioğlu, Kerim Koc, **Ismail Dabanli**, Ali Deniz, (2022) Prioritizing urban water scarcity mitigation strategies based on hybrid multi-criteria decision approach under fuzzy environment, Sustainable Cities and Society, 87, <https://doi.org/10.1016/j.scs.2022.104195>
2. Benali Benzater, Abdelkader Elouissi, **Ismail Dabanli**, Samra Harkat & Abderrahmane Hamimed (2021) New approach to detect trends in extreme rain categories by the ITA method in northwest Algeria, Hydrological Sciences Journal, 66:16, 2298-2311, <https://doi.org/10.1080/02626667.2021.1990931>
3. Elouissi, A., Benzater, B., **Dabanli, I.**, Habi, M., Harizia, A., & Hamimed, A. (2021). Drought investigation and trend assessment in Macta watershed (Algeria) by SPI and ITA methodology. Arabian Journal of Geosciences, 14(14). <https://doi.org/10.1007/s12517-021-07670-7>
4. Benzater, B., Elouissi, A., **Dabanli, I.**, Benericha, B., Hamimed, A., (2021). Extreme rain trend analysis in Macta watershed North West Algeria. Arab J Geosci 14, 302. <https://doi.org/10.1007/s12517-021-06636-z>
5. **Dabanli, I.**, Şişman, E., Güçlü, Y.S., Birpınar M.E., Şen Z., (2021). Climate change impacts on sea surface temperature (SST) trend around Turkey seashores. Acta Geophys. <https://doi.org/10.1007/s11600-021-00544-2>
6. Şen, Z., Şişman, E. & **Dabanli, I.** (2020). Wet and dry spell feature charts for practical uses. Nat Hazards. <https://doi.org/10.1007/s11069-020-04257-5>
7. Güçlü, Y. S., Şişman, E., & **Dabanli, I.** (2020). Innovative triangular trend analysis. Arabian Journal of Geosciences, 13(2). <https://doi.org/10.1007/s12517-019-5048-y>
8. Şen, Z., **Dabanli, I.**, & Şişman, E. (2020). Physical and practical hydrograph recession modeling in karstic sinkholes. Water Science and Technology: Water Supply, 20(2), 751-760. <https://doi.org/10.2166/ws.2020.004>
9. Boudiaf, B., **Dabanli, I.**, Boutaghane, H., & Şen, Z. (2020). Temperature and Precipitation Risk Assessment Under Climate Change Effect in Northeast Algeria. Earth Systems and Environment, 4(1). <https://doi.org/10.1007/s41748-019-00136-7>
10. Serencam, U., & **Dabanli, I.** (2020). Innovative Flow Risk Assessment with Climate Change Perspective in Yesilirmak Basin, Fresenius Environmental Bulletin, 29(1), 514-521 (Q4)
11. Şen, Z., Şişman, E., & **Dabanli, I.** (2019). Innovative Polygon Trend Analysis (IPTA) and Applications. Journal of Hydrology. <https://doi.org/10.1016/j.jhydrol.2019.05.028> (Q1)

12. **Dabanli, I.** (2019). Temperature difference relationship among precipitation, dry days, and spells in Turkey. *Theoretical and Applied Climatology*. Springer-Verlag Wien. <https://doi.org/10.1007/s00704-018-2649-4> (Q2)
13. Güçlü, Y. S., **Dabanli, I.**, Şişman, E., & Şen, Z. (2019). Air quality (AQ) identification by innovative trend diagram and AQ index combinations in Istanbul megacity. *Atmospheric Pollution Research*, 10(1), 88–96. <https://doi.org/10.1016/j.apr.2018.06.011> (Q2)
14. **Dabanli, I.** (2018). Drought hazard, vulnerability, and risk assessment in Turkey. *Arabian Journal of Geosciences*, 11(18). <https://doi.org/10.1007/s12517-018-3867-x> (Q4)
15. **Dabanli, I.** Şen, Z., (2018). Classical and Innovative-Şen Trend Assessment under Climate Change Perspective. *International Journal of Global Warming*, 15(1), 1. <https://doi.org/10.1504/ijgw.2018.10006669> (Q4)
16. **Dabanli, I.**, Şen, Z., (2018). Precipitation projections under GCMs perspective and Turkish Water Foundation (TWF) Statistical Downscaling Model Procedures. *Theoretical and Applied Climatology*. <http://doi.org/10.1007/s00704-017-2070-4> (Q2)
17. **Dabanli, I.**, Mishra A.K., Şen, Z., (2017). Long-Term Spatio-temporal Drought Variability in Turkey. *Journal of Hydrology*, 552, 779–792. <https://doi.org/10.1016/j.jhydrol.2017.07.038> (Q1)
18. **Dabanli, I.**, Şen, Z., Yeleğen, M. Ö., Şişman, E., Selek, B., & Güçlü, Y. S. (2016). Trend Assessment by the Innovative-Şen Method. *Water Resources Management*. <http://doi.org/10.1007/s11269-016-1478-4> (Q1)
19. Güçlü, Y. S., **Dabanli, I.**, Şişman, E., & Şen, Z. (2015). HARmonic–LINear (HarLin) model for solar irradiation estimation. *Renewable Energy*, 81, 209–218. <http://doi:10.1016/j.renene.2015.03.035> (Q1)
20. Güçlü, Y. S., Yeleğen, M. Ö., **Dabanli, I.**, & Şişman, E. (2014). Solar irradiation estimations and comparisons by ANFIS, Angström–Prescott and dependency models. *Solar Energy*, 109, 118–124. <http://doi:10.1016/j.solener.2014.08.027> (Q1)
21. Şen, Z., **Dabanli, I.**, Şişman, E., & Güçlü, Y. S. (2015). Hydrogeological parameter estimations by partial type curve matching methodology. *Arabian Journal of Geosciences*, 8(1), 565–578. <http://doi:10.1007/s12517-013-1205-x> (Q4)
22. Uyumaz, A., & **Dabanli, I.** (2013). Architect Sinan’s Kırkçeşme water supply system outside the city of Istanbul and city network. *Water Science & Technology: Water Supply*, 13(3), 626. <http://doi:10.2166/ws.2013.065> (Q4)
23. Altunkaynak, A., Erdik, T., **Dabanli, I.**, & Şen, Z. (2012). Theoretical derivation of wind power probability distribution function and applications. *Applied Energy*, 92, 809–814. <http://doi.org/10.1016/j.apenergy.2011.08.038> (Q1)

### c) TR Index (TR Dizin)

1. **Dabanli, I.**, (2019). Kuraklık Riskinin Bulanık Mantık Yardımıyla Türkiye Genelinde Değerlendirilmesi. *DÜMF Mühendislik Dergisi*, 10 (1), 359–372. <https://dx.doi.org/10.24012/dumf.499660>
2. **Dabanli I.**, (2019). A Climate Change Impact: Variation in Precipitation Patterns, and Increased Drought Risk in Turkey. *Sakarya University Journal of Science*, 1–1. <https://doi.org/10.16984/saufenbilder.467119>

### d) Discussions

1. Şişman, E., Selim Güçlü, Y., & **Dabanli, I.** (2020). Discussion of “Critical Values for Sen’s Trend Analysis” by Richard H. McCuen. *Journal of Hydrologic Engineering*. American Society of Civil Engineers (ASCE). [https://doi.org/10.1061/\(ASCE\)HE.1943-5584.0001874](https://doi.org/10.1061/(ASCE)HE.1943-5584.0001874) (Q3)

### e) Other International Papers

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1. **Dabanli I.**, Şen Z., (2017) Turkish Water Foundation (TWF) Statistical Climate Downscaling Model Procedures and Temperature Projections, *European Water*,59:25-32.
2. **Dabanli I.**, Şişman E., Sen Z., (2015). Solar Irradiation Calculation Using Double Probability Density Function (DPDF). *Global Journal on Advances in Pure & Applied Sciences* (6), 8-23.

### f) Other National Papers

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1. Tufaner, F., **Dabanli, I.**, Özbeyaz, A., (2019). Kuraklığın Yapay Sinir Ağları ile Analizi: Adıyaman Örneği. *İklim Değişikliği ve Çevre*, 4 (1), 25-32.  
<http://dergipark.org.tr/idec/issue/44131/515071>

### g) International Proceedings

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1. Saidi Hayat, **Dabanli Ismail**, Bourada Mohamed, Tounsi Abdelouahed, (2022) Stability and vibration Analysis of Various Functionally Graded Material Plates on elastic medium, 7<sup>th</sup> Global Conference on Material Sciences, (GC-MAS-2022), 27-29 October 2022, Istanbul,Türkiye
2. Serencam U., **Dabanli I.**, Trend Assessment of Precipitation and Temperature Records in Yesilirmak Basin, 3<sup>rd</sup> International Conference on Advanced Engineering Technologies (ICADET), 19-21 September 2019, Bayburt, Türkiye
3. Serencam U., **Dabanli I.**, Flow Risk Assessment under Climate Change Effect in Yesilirmak Basin, Türkiye, 11<sup>th</sup> World Congress on Water Resources and Environment (EWRA 2019), 25-29 June 2019, Madrid, Spain
4. Tufaner F., **Dabanli I.**, (2018). Adıyaman İlinde Kuraklık Takibi, Uluslararası Su ve Çevre Kongresi, Bildiriler Kitabı: 373-381, 22-24 Mart 2018, Bursa, Türkiye
5. Tufaner F., **Dabanli I.**, Özbeyaz A., Kuraklığın Yapay Sinir Ağları ile Analizi: Adıyaman Örneği. Uluslararası Su ve Çevre Kongresi, Bildiriler Kitabı: 382-389., 22-24 Mart 2018, Bursa, Türkiye
6. Şişman E., **Dabanli I.**, Ulusal Katkı Niyet Belgelerinin Sentezi. Uluslararası Su ve Çevre Kongresi, Bildiriler Kitabı: 1829-1838., 22-24 Mart 2018, Bursa, Türkiye
7. **Dabanli I.**, Şişman E., Sera Gazı Emisyonlarının Artmasında Ülkelerin Sorumluluk Oranlarının Kıyaslanması. Uluslararası Su ve Çevre Kongresi, Bildiriler Kitabı: 1839-1845., 22-24 Mart 2018, Bursa, Türkiye
8. **Dabanli I.**, Şen Z., Turkish Water Foundation (TWF) Statistical Climate Downscaling Model Procedures and Temperature Projections, 10<sup>th</sup> World Congress on Water Resources and Environment, July 5-9, 2017, Athens, Greece
9. Güçlü Y.S., Şişman E., **Dabanli I.**, Illustration of Air Quality Change Using Innovative Trend Analysis Method, International Conference on Civil and Environmental Engineering, May 20-23, 2015, Nevşehir, Türkiye.
10. Güçlü Y.S., **Dabanli I.**, Şişman E., Şen Z., Improving of Angström-Prescott Model Using the Harmonic Analysis, The Seventh International Exergy, Energy and Environment Symposium, April 27-30, 2015, Valenciennes, France.
11. **Dabanli I.**, Şişman E., Güçlü Y.S., Şen Z., Solar Irradiation Calculation Using Double Probability Density Function (DPDF), Second Global Conference on Energy, Soil, Water, Air and Environment, December 11-13, 2014, Dubai, United Arab Emirates.
12. Güçlü Y.S., **Dabanli I.**, Şişman E., Short and Long-Term Solar Radiation Estimation Method, The Sixth International Exergy, Energy and Environment Symposium, July 1-4, 2013, Rize, Türkiye.

13. Güçlü Y.S., Vazifekhan S., **Dabanli I.**, Uyumaz A., Curb Opening Inlets and Hydraulics Calculations, 3th International Bursa Water Congress, March 22-24 2013. Bursa, Türkiye
14. Şen Z., **Dabanli I.**, Application of Theoretical Error Reducing Algorithm on Sediment Transportation, 6th International Perspective on Water Resources and Environment, January 7-9, 2013, İzmir, Türkiye
15. Şen Z., **Dabanli I.**, Theoretical Error Reducing Algorithm, 8th International Symposium on Intelligent and Manufacturing Systems, Proceeding Book p. 87, September 27-28 2012, Antalya, Türkiye
16. Dabanlı Ö., **Dabanli I.**, From Ottoman to Present Haliç (Golden Horn) Shipyard and Water Usage, 3<sup>rd</sup> IWA Specialized Conference on Water & Wastewater Technologies in Ancient Civilization, Proceeding p., 707-14., March 22-24 2012, İstanbul, Türkiye
17. Uyumaz A., **Dabanli I.**, Architect Sinan's City Water Network and Fountains, 3<sup>rd</sup> IWA Specialized Conference on Water & Wastewater Technologies in Ancient Civilization, Proceeding p., 687-94., March 22-24 2012, İstanbul, Türkiye
18. Uyumaz A., **Dabanli I.**, Architect Sinan's Kırkçeşme Water Supply System outside the City, 3<sup>rd</sup> IWA Specialized Conference on Water & Wastewater Technologies in Ancient Civilization, Proceeding p., 696-706., March 22-24 2012, İstanbul, Türkiye

#### **h) National Proceedings**

1. **Dabanli I.**, Uyumaz A., Hydrogen Energy and Turkey Hydrogen Energy Potential, VIII. National Renewable Energy Symposium, Bursa, 2010, Proceeding Book, p:238

#### **i) Panels**

1. International Water and Environment Congress, 22-24 March 2018, Bursa, Türkiye
2. VIII. National Renewable Energy Symposium Hydrogen Energy, December 2010, Bursa, Türkiye
3. VIII. National Renewable Energy Symposium Wind Energy, December 2010, Bursa, Türkiye

### **SCIENTIFIC PROJECTS**

#### **a) Completed Projects**

1. **Dabanli I.**, (Researcher), Prediction of Wind Energy Potential on Istanbul Shores, İSTKA, 2011
2. **Dabanli I.**, (Researcher), Development of Methodology for the Determination of Environmental Objectives for Terrestrial, coastal and transitional waters: Büyük Menderes Basin Pilot Study, Project No: KP-POF-04, KAMAG, TUBITAK, (2013-2014)
3. **Dabanli I.**, (Researcher), Climate Change Effects on Water Resources in Akarcay Basin, ITU, (2014-2017)
4. **Dabanli I.**, (General Coordinator), Capacity Building and Observation Project for Carrying out of Greenhouse Gases Intended National Determined Contribution, Republic of Türkiye Ministry of Environment and Urbanization, 2017-2020  
Project partners:
  - 1) Republic of Türkiye Presidential Budget and Strategy Directorate,
  - 2) Republic of Türkiye Ministry of Energy and National Resources,
  - 3) Republic of Türkiye Ministry of Industry and Technology,
  - 4) Republic of Türkiye Ministry of Transport, Maritime and Communications,
  - 5) Republic of Türkiye Ministry of Treasury and Finance,
  - 6) Republic of Türkiye Ministry of Agriculture and Forestry

#### **b) Project in Progress**

1. **Dabanli I.**, (Project Coordinator), Long-term Drought Trend Determination of Türkiye, MGA-2023-44196, ITU, 2022-2024.

2. **Dabanli I.**, (Researcher) Investigation of Historical water Supply Element and Maintenance of Topkapi Palace by Using Archeology, History of Technology and Engineering Methods, MGA-2021-43072, ITU, 2021-2023.

#### RESEARCH /SCIENTIFIC VISIT

1. Climate Change and Drought Analysis Research, Clemson University, Glenn Department of Civil Engineering, 01 April 2016-01 April 2017, Clemson, South Carolina, USA.
2. Resilience Engineering for Energy and Urban Systems, University of Tokyo, 10-21 January 2016, Tokyo Japan.

#### SEMINAR /CONFERENCE/ SYMPOSIUM/WORKSHOP (INVATED)

1. TWF (Turkish Water Foundation) Integrated Expertise Training for Climate Downscaling Models and Applications, Meteorological Disasters with Climate Monitoring an Evaluation, 19-23 November 2018, Istanbul, Türkiye.
2. Analysis of precipitation changes across the Mediterranean region, 22-24 November 2022, Montpellier, France.
3. Prof. Dr. Hasan Zuhuri Sarıkaya Water Management, Dams and Energy Symposium, 23-24 December 2022, Artvin, Türkiye.
4. Earthquake Hazards and Istanbul, 04 March 2023, Istanbul, Türkiye
5. 22 March world water day Conference in Bursa, 22 March 2023, Bursa Türkiye.

#### THESIS COMMITTEE MEMBERSHIP

Name	University	Degree	Graduation
Sevgi ÇAVDAR	Istanbul Technical University	PhD	Completed
Isilsu Yildirim	Istanbul Technical University	PhD	In Progress
Sinem GÜVEN	Bayburt University	Master	August 2019
Atagün Unan	Istanbul Technical University	Master	July 2019
Hediye TAN	Istanbul Technical University	Master	June 2018

#### SEMINAR /CONFERENCE/ SYMPOSIUM/WORKSHOP (PARTICIPANT)

Year	Activity	Definition
2014	Ministry of Environment and Urban Planning Climate Change 2 Year Report Project Workshop, Ankara	Participant
2013	Ministry of Forestry and Water Affairs, International Water Allocation Workshop, Ankara	Participant
2010	Turkish Course for Erasmus Students, ISMEK, İstanbul	Organizer
	5 <sup>th</sup> World Water Forum, İstanbul VIII. National Renewable Energy Symposium	Participant Participant

#### INTERNSHIPS

**Corporation** : Sinpas Construction Industry

**Position** : Intern Architect

**Duration** : 01 June- 31 July 2010

**Corporation** : Balkar Civil Engineering and Consultancy

**Position** : Intern Civil Engineer

**Duration** : 01 June- 31 July 2009

**Corporation** : Kariyer Civil Engineering and Consultancy

**Position** : Intern Civil Engineer

**Duration** : 01 June- 31 July 2008

## PERSONAL FEATURES

**Ability** :Design, Modelling and Analyze Software (AutoCAD, LEAP, IdeCAD, Sketchup, MATLAB, Anfis, Surfer, Global Mapper, ArcGIS, WMS, MS Office, Adobe Photoshop, Premier)

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**Language (Speaking)** : English (Advance), German (Beginner), Arabic (Beginner)

**Language (Writing)** : English (Advance), German (Beginner), Arabic (Beginner), Ottomans (Intermediate)