

# ***NECATİ AGIRALIOĞLU***

Dip. Ing. and Ph. D.  
Professor of Civil Engineering  
Antalya Bilim University,  
07190, DÖŞEMEALTI- ANTALYA.

## **Personality data:**

Necati Ağıraloğlu, 1947, Trabzon/Turkey, Married, 2 children.

## **Degrees:**

Dip. Ing., in Civil Engineering, Technical University of Istanbul, in 1968.

Ph. D., in Civil Engineering, Technical University of Istanbul, in 1977.

## **Experiences:**

Aug. 1968 - Apr. 1969	Engineer at State Water Supply Department, Trabzon.
Apr. 1969 - Sept. 1970	Military Service, Ankara.
Oct. 1970 - July 1978	Graduate student and research fellow, İstanbul.
July 1978 - July 1979	Post-doctoral fellow at Colorado State Univ., USA.
July 1979 - July 1980	Post-doctoral fellow at Mississippi State Univ., USA.
July 1980 - Apr. 1982	Assistant Professor at Tech. Univ. of Istanbul.
Apr. 1982 - Nov. 1988	Associate Professor at Tech. Univ. of Istanbul.
Nov. 1988 - Jan. 1993	Professor at Technical Univ. of Istanbul.
Jan. 1993 - Sept. 1993	Dean of Engineering Faculty at Sakarya Univ. Sakarya.
Sept. 1993 - Feb. 1995	Professor at Tech. Univ. of Istanbul, İstanbul.
Feb. 1995 - Feb. 1996	Professor, Eastern Mediterranean Univ., Cyprus.
Feb. 1996 – May 2003	Professor at Technical University of Istanbul; İstanbul.
May 2003 – Oct. 2009	Head of Hydraulic Div. at Tech. Univ. of Istanbul; İstanbul.
Mar. 2009 – Apr. 2014	Member of Board of Management at İSKİ, İstanbul
Jan. 2015 – June 2015	Professor at İstanbul Arel University.
Feb. 2017 – 2020	Dean of Engineering Faculty, Antalya Bilim University, Antalya.
2020 – Now	Head of Civil Eng. Department, Antalya Bilim Univ. Antalya.

## **Supervised theses and dissertations:**

14 Ph.D.'s and more than 35 M. Sc.'s.

## **Taught courses:**

a) Undergraduate level:

Fluid Mechanics, Hydrology, Hydraulics, Water Resources Engineering, Dams.

b) Graduate level:

## **LIST OF PUBLICATIONS:**

### A.1 Expanded SCI, SSCI, AHCI (Results: 41)

#### 41 Publications from the Web of Science Core Collection

Include publications not indexed in Core Collection (0)

All PublicationsDate: newest first

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1. **Project Transferring Water from Turkey to Cyprus Island**, Agiralioglu, Necati, Published 2022, CLIMATE CHANGE, NATURAL RESOURCES AND SUSTAINABLE ENVIRONMENTAL MANAGEMENT
2. **Genetic programming for turbidity prediction: hourly and monthly scenarios** Hrnjica, Bahrudin ; Mehr, Ali Danandeh ; (...); Agiralioglu, Necati, Published 2019, PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERİ DERGİSİ
3. **Streamflow map of the Eastern Black Sea Region, Turkey**, Eris, E. and Agiralioglu, N. ,Published 2018, SCIENTIA IRANICA
4. **PRACTICAL METHODS FOR THE ESTIMATION OF HYDROELECTRIC POWER POTENTIAL OF POORLY GAUGED BASINS**, Agiralioglu, Necati ; Eris, Ebru ; (...); Toprak, Z. Fuat, Published 2017, SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ
5. **Determination of Spatial Distribution of Precipitation on Poorly Gauged Coastal Regions: Eastern Black Sea Region**, Eris, Ebru and Agiralioglu, Necati, Published 2017, TEKNİK DERGI
6. **Numerical Investigation of Temporal Variation of Density Flow and Parameters** Unes, F. and Agiralioglu, N., Published 2017, JOURNAL OF APPLIED FLUID MECHANICS
7. **Wave power potential assessment of Aegean Sea with an integrated 15-year data** Jadi doleslam, Navid ; Ozger, Mehmet ; Agiralioglu, Necati Published 2016 RENEWABLE ENERGY
8. **Calculation of mean velocity and discharge using water surface velocity in small streams**, Genc, Onur ; Ardiciloglu, Mehmet ; Agiralioglu, Necati, Published 2015, FLOW MEASUREMENT AND INSTRUMENTATION
9. **The analysis of 2004 flood on Kozdere Stream in Istanbul**, Celik, Huseyin E. ; Coskun, Gonca ; (...); Esin, A. Ilker, Published 2012 |, NATURAL HAZARDS

- 10. Investigation of flow properties in natural streams using the entropy concept, Ardiclioglu, Mehmet ; Genc, Onur ; (...); Agiralioglu, Necati, Published 2012, WATER AND ENVIRONMENT JOURNAL**
- 11. Remote Sensing and GIS Innovation with Hydrologic Modelling for Hydroelectric Power Plant (HPP) in Poorly Gauged Basins, Coskun, H. Gonca ; Alganci, Ugur ; (...); Toprak, Z. Fuat, Published 2010, WATER RESOURCES MANAGEMENT**
- 12. Effect of coastline configuration on precipitation distribution in coastal zones, Eris, Ebru and Agiralioglu, Necati ,Published 2009 , HYDROLOGICAL PROCESSES**
- 13. Modeling Monthly Mean Flow in a Poorly Gauged Basin by Fuzzy Logic, Toprak, Zeynel Fuat ; Eris, Ebru ; (...); Alganci, Ugur, Published 2009|, CLEAN-SOIL AIR WATER**
- 14. Hydrological modeling of ungauged basins using Remote Sensing and GIS: a case study of Solakl Watershed in Turkey, Alganci, U. ; Coskun, H. G. ; (...); Dagci, M. , Published 2009 , REMOTE SENSING FOR A CHANGING EUROPE**
- 15. Effects of anthropogenic activities on the Lower Sakarya River, Isik, Sabahattin ; Dogan, Emrah ; (...); Agiralioglu, Necati, , Published 2008, CATENA,**
- 16. Wavelet regression technique for streamflow prediction, Kuecuek, Murat and Agiralioglu, Necati, Published 2006, JOURNAL OF APPLIED STATISTICS**
- 17. Closure to "Comparative analysis of hydraulic calculation methods in design of microirrigation laterals" by Gurol Yildirim and Necati Agiralioglu, Yildirim, G and Agiralioglu, N, Published 2006 , JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
- 18. Closure to "Linear solution for hydraulic analysis of tapered microirrigation laterals" by Gurol Yildirim and Necati Agiralioglu, Yildirim, G and Agiralioglu, N Published 2005 |, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
- 19. Discussion of "Explicit hydraulic design of microirrigation submain units with tapered manifold and laterals" by John D. Valiantzas, Yildirim, G and Agiralioglu, N, Published 2005 |, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
- 20. Discussion of "Inlet pressure, energy cost, and economic design of tapered irrigation submains" by John D. Valiantzas, Yildirim, G and Agiralioglu, N, Published 2005, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
- 21. Discussion of "Determining minor head losses in drip irrigation laterals. II: Experimental study and validation" by Luis Juana, Leonor Rodriguez-Sinobas, and Alberto Losada, Yildirim, G and Agiralioglu, N, Published 2004, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
- 22. Discussion of "Equivalent friction factor method for hydraulic calculation in irrigation laterals" by Pedro Vallesquino and Pedro L. Luque-Escamilla, Yildirim,**

**G and Agiralioglu, N, Published 2004, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**

23. **Discussion of "Determining minor head losses in drip irrigation laterals. 1: Methodology" by Luis Juana, Leonor Rodriguez-Sinobas, and Alberto Losada, Yildirim, G and Agiralioglu, N, Published 2004, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
24. **Comparative analysis of hydraulic calculation methods in design of microirrigation laterals, Yildirim, G and Agiralioglu, N, Published 2004, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
25. **Linear solution for hydraulic analysis of tapered microirrigation laterals, Yildirim, G and Agiralioglu, N, Published 2004, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
26. **Discussion of "Continuous outflow variation along irrigation laterals: Effect of the number of outlets" by John D. Valiantzas, Yildirim, G and Agiralioglu, N, Published 2003, JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
27. **Discussion of "New algorithm for hydraulic calculation in irrigation laterals" by Pedro Vallesquino and Pedro L. Luque-Escamilla, Yildirim, G and Agiralioglu, N, Published 2003 , JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING**
28. **Tests of a siphon-shaft spillway with cylindrical hoods, Agiralioglu, N ; Sasal, M ; Karpuz, S, Published 1998, WATER RESOURCES ENGINEERING 98, VOLS 1 AND 2**
29. **A simplified dynamic model for flood routing in rectangular channels, Keskin, ME and Agiralioglu, N, Published 1997 |, JOURNAL OF HYDROLOGY**
30. **HOOD CHARACTERISTICS FOR SIPHON-SHAFT SPILLWAYS, AGIRALIOGLU, N and MUFTUOGLU, RF, Published 1989, JOURNAL OF HYDRAULIC ENGINEERING-ASCE**
31. **ESTIMATION OF THE TIME OF CONCENTRATION FOR DIVERGING SURFACES, AGIRALIOGLU, N, Published 1988, HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES**
32. **A DIMENSIONLESS SOLUTION OF LAG TIME FOR DIVERGING SURFACE, AGIRALIOGLU, N, Published 1987, NORDIC HYDROLOGY**
33. **A COMPARISON OF WATER LAG TIMES FOR CONVERGING AND PLANE SURFACES, AGIRALIOGLU, N, Published 1985, NORDIC HYDROLOGY**
34. **ANALYTICAL SOLUTION OF LEAF-SHAPED BASIN FLOW, AGIRALIOGLU, N, Published 1985 |, HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES**
35. **CORRECTION, AGIRALIOGLU, N, Published 1982, JOURNAL OF THE HYDRAULICS DIVISION-ASCE**
36. **LAG TIME FOR DIVERGING OVERLAND-FLOW, SINGH, P and AGIRALIOGLU, N, Published 1982, NORDIC HYDROLOGY**

37. Diverging overland flow, Singh, Vijay P. and Agiralioglu, Necati, Published 1981, ADVANCES IN WATER RESOURCES
38. WATER ROUTING ON DIVERGING-CONVERGING WATERSHEDS, AGIRALIOGLU, N, Published 1981, JOURNAL OF THE HYDRAULICS DIVISION-ASCE
39. OVERLAND-FLOW ON A DIVERGING SURFACE, AGIRALIOGLU, N and SINGH, VP, Published 1981, HYDROLOGICAL SCIENCES BULLETIN-BULLETIN DES SCIENCES HYDROLOGIQUES
40. DIVERGING OVERLAND-FLOW. 2. APPLICATION TO NATURAL WATERSHEDS, SINGH, VP and AGIRALIOGLU, N, Published 1981 , NORDIC HYDROLOGY
41. DIVERGING OVERLAND-FLOW. 1. ANALYTICAL SOLUTIONS, SINGH, VP and AGIRALIOGLU, N, Published 1981, NORDIC HYDROLOGY

#### OTHER INTERNATIONAL JOURNAL PAPERS

1. Ağırarioğlu, N., and Singh, V. P., "Time of Concentration for Diverging Overland Flow", Journal of the Indian Association of Hydrologists, Vol. IV, No: 3 and 4, pp.1-7, December 1980.
2. Ağırarioğlu, N., and Singh, V. P., "Kinematic Wave Nomographs for Time of Concentration and Lag Time, "Irrigation and Power Journal, India. Vol. 38, No. 4, pp. 351-358, October 1981.
3. Ağırarioğlu, N., "Estimation of the Time of Concentration for Diverging Surface", ESCAP, Water Resources Journal, (reprint), pp. –27, December 1988.
4. Algancı U., Coşkun H. G., Eriş E., Ağırarioğlu N., Ciğizoglu H. K., Yılmaz L., Toprak Z. F., Hydrological Modeling with Remote Sensing and GIS for Determination of Hydroelectric Potential in River Basins Without Flow Measurements, Journal of Geodesy and Geoinformation, 101, P. 5-11, February 2009.
5. Ebru, E, Ağırarioğlu, N. Homogeneity and trend analysis of hydrometeorological data of the Eastern Black Sea Region, Turkey, Journal of Water Resource and Protection, 4, 99-105, 2012.
6. Üneş F., Ağırarioğlu N., Demirci M., Simulation of Density Flow and Velocity Variation in Dam Reservoirs, Journées De L'hydraulique, 36, 1, P. 1-13, January 2014.
7. Taş, Erkin; Ağırarioğlu, Necati; Mehr, Ali Danandeh; Tur, Rifat, Energy Loss Investigation in Submarine Pipelines: Case Study of Cyprus Water Supply Project, Advance Researches in Civil Engineering, ISSN: 2645-7229, Vol. 2, Issue 2, Pages 31-44, 2020.

- 8.** Mahnamfar F., Abdollahzadehmoradi Y., Ağırarioğlu N., Flood Risk Analysis of Residential Areas at Downstream Side of Elmalı Dam, Academic Platform Journal of Natural Hazards and Disaster Management, 1, 1 P. 49-58, June 2020.
- 9.** Taş E., Ağırarioğlu N., Mehr A. Danandeh, Tur R., Energy Loss Investigation in Submarine Pipelines: Case Study of Cyprus Water Supply Project, Advance Researches in Civil Engineering, 3, 2, P. 31-44, June 2020.
- 10.** Ağıreralioğlu, S., Ağırarioğlu, N., Population Movements and Their Reasons in Trabzon City and Of District in The Ottoman Period, Avrasya Sosyal ve Ekonomi Araştırmaları Dergisi 10 (1), 305-332, 2023.
- 11.** Dede, A., Ağırarioğlu N., 11. Neighboring Station Selection in Hydrological Outlier Detection, Fırat Üniversitesi Mühendislik Bilimleri Dergisi, 35 (1), 81-99, 2023.

## INTERNATIONAL CONFERENCE PAPERS

- 1.** **Ağırarioğlu**, N., and Singh, V. P., “A Kinematic Model for Diverging Overland Flow”, Proceedings of the International Conference on Water Resources Development, Taipei, Taiwan, pp. 587-597, May 1980.
- 2.** **Ağırarioğlu**, N., and Singh, V. P., “Radial Flows in Hydrology”, International Symposium on Water Resources Systems, University of Rookee, India, pp. 11/6/29-34, October 1980.
- 3.** **Ağırarioğlu**, N., “Effect of Catchment Geometry on Time of Concentration”, Proceedings of the Third International Conference on Urban Storm Drainage, Göteborg, Sweden, pp. 177 – 184, June 1984.
- 4.** **Ağırarioğlu**, N., Saltabaş, L., and Sümer, B., “Time of Concentration for Small Surface”, Proceedings of The International Symposium on Highway Pollution, pp. 257 –264, Madrid, 18-22 May, 1992.
- 5.** **Ağırarioğlu**, N., Yanmaz, A. M., and Numan, T., “Cliff Boundary in Shoreline Model: A Case Study”, The Second International Conference on The Mediterranean Coastal Environment, Spain, pp. 1161-1171, 1995.
- 6.** **Ağırarioğlu**, N., Karpuz, S., Şaşal, M., and Saltabaş, L., “Navigation Improvement for Lower Sakarya River”, Proceedings of International Conference on European River Development, pp. 17 – 24, Budapest, Hungary, 16-18 April, 1998.

7. **Ağıralioğlu**, N., Şaşal, M., and Karpuz, S., “Tests of Siphon-Shaft Spillway with Cylindrical Hoods”, 1998 ASCE International Water Resources Engineering Conference, Memphis USA, 3-7 August 1998.
8. **Ağıralioğlu**, N., Şaşal, M., Karpuz, S., and Saltabaş, L., “Navigation Capability of the Lower Sakarya River”, 1999 ASCE Conference on International Water Resources Engineering, 1999, Seattle, August 1999.
9. **Ağıralioğlu**, N., “Engineering and Technology Degrees in Turkey and USA”, 28. International Symposium on Engineering Education in the Third Millennium, Vol. 2, pp. 1097-1102, Istanbul, 1999.
10. **Ağıralioğlu**, N., Aytek, A., and Üneş, F., “Determination of Seepage under a Dam with an Upstream Blanket”, International Symposium on Dam Foundations, Problems and Solutions, Antalya, pp. 469-481, 23 September 1999.
11. **Ağıralioğlu**, N., Yılmaz, L., and Saltabaş, L., “The Determination of the Water Use capacity of the Sapanca Lake in Turkey”, Proceedings of the International Conference on Water, Environment, Ecology, Socio-economics and Health Engineering, Seoul, Korea, pp. 162-166, October 18-21, 1999.
12. Yıldırım, G. and **Ağıralioğlu**, N., “Computer Aided Design of Lateral Pipes in Drip Irrigation”, Proceedings of International Symposium on Water Resources and Environmental Impact Assessment, Istanbul, pp.267-279, 11 –13 July 2001.
13. Küçük, M., and **Ağıralioğlu**, N., “Comparison of API and British Standards for Environmental Loads on Piled Marine Structures”, Proceedings of International Symposium on Water Resources and Environmental Impact Assessment, Istanbul, pp.281-294, 11-13 July 2001.
14. **Ağıralioğlu**, N., Işık, S., Şaşal, M, and Saltabaş, L., “Downstream Effects of Dams: The Lower Sakarya River”, Proceedings of the International Conference on Water Resources Management in Arid Regions, Volume 1, pp. 611-620, March 23-27, Kuwait, 2002.
15. Küçük, M., **Ağıralioğlu**, N., “Evaluation of Environmental Loads on Marine Structures at the Marmara Sea”, Proceedings of the International Conference on Water Resources Management in Arid Regions, Volume 1, pp. 673-686, March 23-27, Kuwait, 2002.

16. Mohamed, H.G., and **Ağırarioğlu**, N., "Steady-State Seepage under Hydraulic Structures", Proceedings of the International Conference on Water Resources Management in Arid Regions, Volume 2, pp. 131-140, March 23-27, Kuwait, 2002.
17. **Ağırarioğlu**, N., and Yıldırım, G., "Determining Water Requirements for Landscape Irrigation in Istanbul Region", Proceedings of the International Conference on Water Resources Management in Arid Regions, Volume IV, pp. 359-368, March 23-27, Kuwait, 2002.
18. Yıldırım, G., and **Ağırarioğlu**, N., "Variation of Total Friction Head Losses and Uniformity Coefficients Based on Inlet Pressure Head in Trickle Irrigation Laterals", Proceedings of the International Conference on Water Resources Management in Arid Regions, Volume IV, pp. 435-444, March 23-27, Kuwait, 2002.
19. Küçük, M., Tigli, E., **Ağırarioğlu**, N., Wavelet Transform Analysis for Nonstationary Rainfall-Runoff-Temperature Processes. Conference on Water Observation and Information System for Decision Support, 25-29 May, Ohrid, FY Republic of Macedonia, **2004**.
20. Küçük, M., **Ağırarioğlu**, N., The Comparison of Generated Daily Stream Flow Data Using Wavelet and Markov Models. *BHS International Conference Hydrology: Science & Practice for the 21<sup>st</sup> Century, July, London, UK. 2004*.
21. MS Günel, MC Demirel, M Küçük, **N Agiralioglu**, Determination of Rainfall Time Distributions of Turkey by Using Cluster Analysis, Conference: Fifth Annual Meeting of the European Meteorological Society, At: Utrecht – NL, 12-16 Sept. 2005.
22. Üneş, F., **Ağırarioğlu** N., Demirci M.; Simulation of Density Flow in Dam Reservoirs Using Two Dimensional Mathematical Models; International Balkans Conference on Challenges of Civil Engineering, 2005.
23. **Ağırarioğlu** N., Aytek, A., Üneş, F.; Determination of Seepage Under a Dam with an Upstream Blanket; ICOLD (International Commission on Large Dams) Dam Foundations Problems and Solutions, 2006.
24. Algancı, U., Coskun, H.G., **Agiralioglu**, N., Usta, G., Cigizoglu, H. K., Aksoy, H., Yilmaz, L., Eris, E., and Dagci, M. ,2008, "*Hydrological modeling of ungauged basins using Remote Sensing and GIS: a case study of Solaklı Watershed in Turkey*" ,*28<sup>th</sup> EARSeL Symposium and Workshops, Remote Sensing for a Changing Europe, 2-7 June, Istanbul, Turkey, Abstract*, 2008.

- 25.** Eris, E., **Agiralioglu**, N., “*Determination of Relationship Between Precipitation and Geographical/Topographical Variables*”, The 4<sup>th</sup> International Student Conference on Advanced Science and Technology (ICAST2010), Ege University, 305-306, *Poster*, 2010.
- 26.** M Ardiclioglu, H Bilgin, O Genc, **N Agiralioglu**, Determination of discharge by entropy concept in natural river, - Fourth International Conference on Water Observation and Information System for Decision Support, BALWOIS, Ohrid, Macedonia, 2010.
- 27.** MG Ekren, **N Ağıraklıoğlu**, HG Coşkun, Case Studies III: Secure Fish Passage Design for Sustainable Fish Populations: A Case Study in Vereinigte Weißenitz River, University of Massachusetts - AmherstScholarWorks@UMass AmherstInternational Conference on Engineering and Ecohydrology for Fish PassageInternational Conference on Engineering andEcohydrology for Fish Passage 2016.
- 28.** E Taş, **N Ağıraklıoğlu**, Comparison of Friction Losses in Long Polyethylene Pipe Systems Using Different Formulas, International Symposium on Urban Water and Wastewater Management Proceedings, Denizli, 2018.
- 29.** **N Ağıraklıoğlu**, A Danandeh Mehr, Ö Akdeğirmen, E Taş, Cyprus water supply project: features and outcomes, 13th International Congress on Advances in Civil Engineering, 12-14 September 2018, Izmir/TURKEY, 2018.
- 30.** **Necati Ağıraklıoğlu**, Ali Danandeh Mehr, Principals Of Planning And Realization Of Greater Melen Water Supply Project, Turkey, Conference: 4. International Conference on Civil , Environmental, Geology and Mining Engineering (ICOCEM - Trabzon 2019)At: Trabzon, Turkey, April 2019.
- 31.** Taş E., **Ağıraklıoğlu** N. Danandeh Mehr A., Tür R., "A Brief Review of Experimental Friction Loss Studies for Polyethylene Pipes", Development and Modernization of Production, Sarajevo, BOSNA HERSEK, 18-20 Eylül 2019, pp.52-52, 2019.
- 32.** Ozturk, Izzet; **Agiralioglu, Necati**; Ozdemir, Omer; Akinci, Nasir, Water Supply from Turkey to Cyprus Island with Suspended Marine Pipeline, International Conference on Civil Infrastructure and Construction (CIC, 2020), 818-827, February 2020, Doha-Qatar.

## NATIONAL JOURNAL PAPERS

1. Ağırarioğlu, N., "Submerged Flow on Sharp Crested Weirs", Technical Bulletin of State Hydraulic Works, (in Turkish), Vol. 28, pp. 88 –99, May 1978.
2. İlter, K., and Ağırarioğlu, N., "Determination of Reservoir Sedimentation", Technical Bulletin of State Hydraulic Works, (in Turkish), Vol. 61, pp. 3 -15, 1987.
3. Çataklı, O. N., Ağırarioğlu, N., and Uyumaz, A. "Principles of Water Power Development", (in Turkish), Bulletin of the Electrical Works Administration, No: 124, pp. 1-7, 1986.
4. Ağırarioğlu, N., Kapdaşlı S., and Savcı, M.E., "Mathematical Modeling for Environmental Effects on Marine Structures", (in Turkish), Environmental Bulletin of the Bosphorus University, No: 2, pp.10-14, 1992.
5. Üneş, F., Ağırarioğlu, N., "Investigation of densely submerged reservoir flows with mathematical models" (in Turkish), İTÜ Dergisi/d, Mühendislik, Cilt 3, Sayı 6, Sayfa: 47 – 58, 2004.
6. Yıldırım G, Agiralioglu, N., "Variataion of Design Parameters in Micro-irrigation Laterals", (in Turkish), ARI, The Bullettin of the Istanbul Technical University, 54(1) 42-53, 2004.
7. Mohamed, H.G., Ağırarioğlu, N., The effect of inclined sheet piling and foundation soil properties on seepage under the hydraulic structure, (in Turkish), İTÜ dergisi/d, Mühendislik, Cilt 4, Sayı 6, Sayfa: 82-92, 2005.
8. Aytek, A., Ağırarioğlu, N., Mathematical modeling of the formation of river deltas, (in Turkish), İTÜ dergisi/d, Mühendislik, Cilt 5, Sayı 5, Sayfa: 33-44, 2006.
9. Küçük, M., Ağırarioğlu, N., "Dalgacık Dönüşüm Tekniği Kullanılarak Akım Serilerinin Modellenmesi", (in Turkish), İTÜ dergisi/d, Mühendislik, Cilt 5, Sayı 2, Sayfa: 69-79, 2006.
10. Yıldırım, G., A., Ağırarioğlu, N., "Comparison analysis of calculation methods in the design of microirrigation system lateral pipes, (in Turkish), İTÜ dergisi/d, Mühendislik, Cilt 7, Sayı 3, Sayfa: 86-99, 2008.
11. Algancı, U., Coşkun, H. G., Eriş, E., Ağırarioğlu, N., Cıgızoglu, K., Yılmaz, L. Toprak, Z. F., "Hydrological Modeling with Remote Sensing and GIS for Determination of Hydroelectric Potential in River Basins Without Flow Measurements" (in Turkish), TBMMOB Harita ve Kadastro Mühendisleri Odası, Jeodezi, Jeoinformasyon ve Arazi Yönetimi Dergisi, Sayı 101-12.THBTK Özel Sayı, 5-11, 2010.
12. Ağırarioğlu, N., An approach to determine the quality of universities in Turkey, (in Turkish), Journal of Higher Education and Science, Vol.2, No,3, p.147-165. 2012

- 13.** Ağırarioğlu, N., Postgraduate education in Turkey, (in Turkish), Journal of Higher Education and Science, Vol..3, No. 1, pp 1-19, 2013.
- 14.** Eriş, E., Ağırarioğlu, N., Determining the Local Distribution of Precipitation in Coastal Regions with Few Measurements: Eastern Black Sea Region, (in Turkish), İMO Teknik Dergi, p. 7685-7702, 2017.
- 15.** F Mahnamfar, Y Abdollahzadehmoradi, N Ağırarioğlu, Flood risk analysis of residential areas at downstream side of Elmali dam, Academic Platform Journal of Natural Hazards and Disaster Management 1(1), 49 – 58, 2020.
- 16.** Erkin Tas, Necati Agiralioglu, Ali Danandeh Mehr, Rifat Tur. Energy loss investigation in submarine pipelines: case study of cyprus water supply project, Advance Researches in Civil Engineering, 2,Sayı,2 2, Sayfalar, 31-44, 2020/6/1.
- 17.** Ağırarioğlu, S. , Ağırarioğlu, N., Population Movements And Their Reasons In Trabzon City And Of District In The Ottoman Period, ASEAD CİLT 10 SAYI 1 YIL 2023, S 305-332.
- 18.** Dede, A., Ağırarioğlu, N., Hidrolojik Sapan Değer Tespitinde Komşu İstasyon Seçimi, Fırat Üniversitesi Mühendislik Bilimleri Dergisi 35 (1), 81-99, 2023.

## NATIONAL CONCERENCE PAPERS

- 1.** Ağırarioğlu, N., “Effects of Velocity Distribution on Submerged Flow in Sharp Crested Weirs”, (in Turkish), 6<sup>th</sup> Science Congress of the Scientific and Technical Research Council of Turkey, pp. 37- 48, Izmir, 1977.
- 1.** Ağırarioğlu, N., “Comparison of Determination Methods for Time of Concentration”, (in Turkish), 4. Engineering Week, pp. 1-18, Isparta, 1988.
- 2.** Ağırarioğlu, N., “Determination of the Potential Landslide,” (in Turkish), Symposium on The Catastrophic Flood at Trabzon and Surrounding Area in 20 June 1990, Trabzon, 22-24 November 1990.

3. **Ağiralioglu**, N., "Determination of Infiltration and Surface Runoff Hydrographs Using A Mathematical Model", (in Turkish), Seminar on Computer Application in Water Resources, pp. 8.1-8.32, Urfâ, 1991.
4. Keskin, M.E., and **Ağiralioglu**, N., "Flood Routing for Different Cross Sectional Channels", (in Turkish), 6. Engineering Week, Isparta, 1 June 1990.
5. Sandalcı, M., **Ağiralioglu**, N., and Savcı, M.E., "Long Shore Sediment Transport and Interaction between Structures and Shore", (in Turkish), 3. Symposium on Computer Application in Civil Engineering, pp. 404 –418, Istanbul, 15-18 June 1992.
6. Keskin, M.E., and **Ağiralioglu**, N., "Flood Routing in Storm Water Canals Using Kinematic Model", (in Turkish), 1. Conference on the Scientific Cooperation between Turkish States, pp. 296 –305, Nicosia, Cyprus, 22-24 June 1992.
7. Güldal, V., and **Ağiralioglu**, N., "Effects on the Keban Reservoir on Micro Climate", (in Turkish), Conference on Development of Water and Land Resources for 40. Installation Year of State Hydraulic Works, Vol.1, pp. 417 –435, 1994.
8. Keskin, M.E., **Ağiralioglu**, N., "Investigation of Flood Waves Using Mathematical Models", (in Turkish), 8. Engineering Week, Isparta, 26-28 May 1994.
9. **Ağiralioglu**, N., "Demirpençe H., "Modeling of Breach Occurrence in Earth Fill Dams", (in Turkish), IV. Symposium on Computer Application in Civil Engineering, 14-16 June 1994.
10. Numan, T., and **Ağiralioglu**, N., "Long Term Prediction of Water Demand and Suggestions for Solution in Northern Cyprus", (in Turkish), II. Technical Congress on the Developments in Civil Engineering, pp. 287 –296, Bosphorus University, Istanbul, 1995.
11. Keskin, M. E., and **Ağiralioglu**, N., "A Mathematical Model for Flood Routing", (in Turkish), III. Technical Congress on the Developments in Civil Engineering, pp. 347- 351, Ankara, Middle East Technical University, 15-16 September 1997.
12. Birpinar M. E., and **Ağiraloğlu**, N., "Discharge-Drown Relationship for Steady Flow in Eccentric Wells in an Island", (in Turkish), III. Technical Congress on the Developments in Civil Engineering, pp. 347- 351, Ankara, Middle East Technical University, 15-16 September 1997.
13. **Ağiralioglu**, N., and Yılmaz, L., "Determination of Using Capacity for Sapancı Lake under Winter Condition", (in Turkish), II. National snow Congress, pp.1-6, 21-23 February Erzurum, Turkey, 2000.

14. Şaşal, M., and **Ağırarioğlu**, N., “Evaluation of the Long Shore Sediment Transport Models”, (in Turkish), 3. National Conference on the Coastal and Marine Areas in Turkey, pp. 653-660, Istanbul, 26-29 June 2001.
15. **Ağırarioğlu**, N., “Need of a Central Library in Istanbul”, (in Turkish), 2001 Symposium on Golden Horn, Istanbul, pp. 318-328., 3-4 May 2001.
16. Küçük, M., **Ağırarioğlu**, N., Stationary and Non-stationary Time Series Analysis by using Short Time Fourier Transform. *Third National Atmosphere Symposium, 19-21 March, Istanbul, 2003.*
17. Küçük, M., **Ağırarioğlu**, N., 2003. Comparison Earthquake and Wave Dynamic Effects on the Marine Structures in The Marmara Sea. *Fifth National Conference on Earthquake Engineering, 26-30 May, Istanbul, Turkey, 2003.*
18. Mohamed, H.G., and **Ağırarioğlu**, N., Eğimli Palplanş ve Temel Zemini Özelliklerinin Baraj Altındaki Sızmaya Etkisi, 1. Ulusal Barajlar ve Hidroelektrik Santrallar Sempozyumu, Ankara, 203-213, 2004.
19. Üneş, F., and **Ağırarioğlu**, N., Karacuha, G., Baraj Haznesindeki Yoğunluk Akımları ve Isı Transferi, 1. Ulusal Barajlar ve Hidroelektrik Santrallar Sempozyumu, Ankara, 615-627, 2004.
20. Küçük, M., **Ağırarioğlu**, N., Daily Streamflow Analysis using Short Time Fourier Transform and Continuous Wavelet Transform. *IV National Congress on Hydrology and Seminar on New methods in Hydrology. 21-25 June, Istanbul, Turkey, 2004.*
21. Mesci, S. B., **Ağırarioğlu**, N., Eriş, E., “*Dolgu Barajlarda Sızma Hattının Belirlenmesi ve Kullanılan Metotların Karşılaştırılması*”, *1.Uluslararası Baraj Güvenliği Sempozyumu ve Sergisi, Ankara, 171–182, 2007.*
22. Algancı, U., Coşkun, G., **Ağırarioğlu**, N., Aksoy, H., Yılmaz, L., Cığızoğlu K. H., Toprak, Z. F., Eriş, E., Andiç, G., Kaya, D., Usta, G., “*Solaklı Havzasının Uzaktan Algılama ve Coğrafî Bilgi Sistemi ile Hidrolojik Amaçlı İrdelenmesi*”, *III. Ulusal Su Mühendisliği Sempozyumu, Gümüldür, 433-443, 2007.*
23. Şahin, M., Cığızoğlu, K. H., **Ağırarioğlu**, N., Aksoy, H., Yılmaz, L., Coşkun, G., Toprak, Z. F., Eriş, E., Andiç, G., Algancı, U., Kaya, D., 2007: “*Doğu Karadeniz Havzasında Yağış-AKİŞ İLİŞKISİNİN YAPAY SINIR AĞLARI İLE BELİRLENMESİ*”, *III. Ulusal Su Mühendisliği Sempozyumu, Gümüldür, 533-544, 2007.*

- 24.** Andiç, G., **Ağırarioğlu**, N., Yılmaz, L., Aksoy, H., Cıgozoglu, K. H., Coşkun, G., Toprak, Z. F., Eriş, E., Şahin, M., Algancı, U., Kaya, D., "Akım Ölçümleri Yetersiz Havzalarda Aylık Akımların ve Hidroelektrik Potansiyelin Belirlenmesi", *III. Ulusal Su Mühendisliği Sempozyumu, Gümiildür*, 587-59, 2007.
- 25.** **Ağırarioğlu**, N., Eriş, E., Algancı, U., Toprak, Z. F., Yılmaz, L., Cıgozoglu, K. H., Coşkun, G. H., Andiç, G., "Akım Ölçümü Az Olan Havzalarda Hidroelektrik Potansiyelin Belirlenmesi: Doğu Karadeniz Bölgesi", 5. Dünya Su Forumu Bölgesel Hazırlık Süreci, Türkiye Bölgesel Su Toplantısı, Su ve Enerji Konferansı, Artvin, Bildiriler Kitabı II: 1-32 (Çağrılı Bildiri), 2008.
- 26.** Algancı, U., Coşkun, H. G., Eriş, E., **Ağırarioğlu**, N., Cıgozoglu, K., Yılmaz, L., Toprak, Z. F., "Akım Ölçümleri Olmayan Akarsu Havzalarında Hidroelektrik Potansiyelin Belirlenmesine Yönelik Uzaktan Algılama ve CBS ile Hidrolojik Modelleme", 12. Türkiye Bilimsel Harita ve Teknik Kurultayı, Ankara, Özeti Kitabı, 144-145, 2009.
- 27.** **Ağırarioğlu**, N., Eriş, E., "Akarsu Düzenlemesinde Gelişmeler", Su Yapıları Sempozyumu, Samsun, 1-19, 2009.
- 28.** Eriş, E, **Ağırarioğlu**, N., Kıyı Alanlarında Kıyı Şeklinin Yağış Dağılımına Etkisi, VI. Ulusal Hidroloji Kongresi, Bildiriler Kitabı, S. 428-438, 22-24 Eylül 2010.
- 29.** Ağırarioğlu, N., Savcı M.E., Özger M., Erdik, T., Karsavran, Y., Fiber Optik Deniz Altı Kablolarının Kıyıya Yerleştirilme Tasarımı, 7. Kıyı Mühendisliği Sempozyumu, Trabzon, s. 599 -608, 2011.
- 30.** O Genç, M Ardiçlioğlu, **N Ağırarioğlu**, M Vapur, Taşkınlarda Akım Özelliklerinin Derinliğe Bağlı Belirlenmesi, Taşkın ve Heyelan Sempozyumu, 453-461, Trabzon, 24-26 Ekim 2013.
- 31.** Kesgin, E., & Ağırarioğlu, N. (2014). 'Numerical Investigation of Seepage Flow Net in Tailings Earthen Dam'. International Civil Engineering & Architecture Symposium for Academicians 2014, Hydraulic and Hydrological Engineering. ICESA 2014.
- 32.** Üneş Fatih, **Ağırarioğlu Necati**, Demirci Mustafa; Simulation of Density Flow and Velocity Variation in Dam Reservoirs; SimHydro 2014/ Modelling of rapid transitory flows, 2014.
- 33.** **N Ağırarioğlu**, MN Balov, A Altunkaynak, M Özger, Su Yapılarında Balık Elekleri Tasarımı, **4. Su Yapıları Sempozyumu, 268-277.** Antalya, 19-20 Kasım 2015.

- 34.** N Ağırarioğlu, M Özger, Y Abdollahzadehmoradi, Çanakkale-Bigalı Kalesi Kıyı Koruması, 468-480, 9. Kıyı Mühendisliği Sempozyumu, Adana, 1-3 Kasım 2018.
- 35.** Necati Ağırarioğlu, Yasin Abdollahzadehmorad, Kumsal Korumasında Batmış Jeotüplerin Kullanılması: İncekum Kumsal Koruması, Antalya, 95-106, 9. Kıyı Mühendisliği Sempozyumu, Adanan, 1-3 Kasım 2018.
- 36.** Paşa Y., Mahnamfar F., Ağırarioğlu N., Elmalı Barajının Mansap Tarafındaki Meskun Bölgelerin Taşkın Risk Analizi, Natural Hazards and Disaster Management, Sakarya, Türkiye, 04-06 May 2018.
- 37.** Ağırarioğlu, N., Dünya Üniversite Sıralamaları ve Türkiye Üniversiteleri, 1. Rumeli Mühendislik ve Mimarlık Eğitimi Sempozyumu, İstanbul, 28-29 Haziran 2021.

## BOOKS

1. Erkek, C., and **Ağırarioğlu**, N., Water Resources Engineering, (in Turkish), 9. Edition, Beta Publication Company, Istanbul, 2020.
2. Erkek, C., and **Ağırarioğlu**, N., Solved Problems of Water Resources Engineering, (in Turkish), The Istanbul Technical University Press, 7. Edition, 210 p., Beta Publication Company, Istanbul, 2019.
3. **Ağırarioğlu**, N., (Translation), Zamanı İyi Değerlendirmek, (How to Put More Time in Your Life, by Dru Scott), Kültür Bakanlığı, Dünya Edebiyatı Dizisi, Ofset Repromat, 318 p., Ankara, 1993.
4. Samuk F., **Ağırarioğlu**, N., Kur'an-ı Kerim'e Göre Meryemoğlu Mesih Hazreti İsa, (Prophet Jesus Christ: The Son of Virgin Mary), Kubbealtı Neşriyatı, 160 s., İstanbul, 1998..
5. **Ağırarioğlu**, N., Planning and Design of Dams, Volume 1, Second Edition, (in Turkish), Turkish Water Foundation, Istanbul, 262 p., 2006.
6. **Ağırarioğlu**, N., Planning and Design of Dams, Volume 2, (in Turkish), Turkish Water Foundation, Istanbul, 296 p., 2005.
7. **Ağırarioğlu**, N., Planning and Design of Dams, Volume 3, (in Turkish), Turkish Water Foundation, Istanbul, 322 p., 2007.
9. **Ağırarioğlu**, N., Dam Safety, (in Turkish), Beta Publishing Company, Istanbul, 275 p., 2011.

- 10.** Ağırarioğlu, N., Atatürk Dam and Effects of it on Turkey, (in Turkish), Scala Publisher, Istanbul, 474 p., 2014.
- 11.** Ağırarioğlu, N., Cyprus Water Project and its Effects on the Region, Kalyon Pub., 478 p., 2016.
- 12.** Ağırarioğlu, N., Computational Hydraulics for Engineers, (in Turkish), Beta publishing Company, 400 p., 2020.
- 13.** Ağırarioğlu, N., Kıbrıs'ın Su Probleminin Geçmişi, s.1-15. (İklim Değişikliği Çerçeveinde Kuzey Kıbrıs Türk Cumhuriyeti'nde Su Yönetimi © Türkiye Bilimler Akademisi Yayınları, 2024 /, 2024 Bilim ve Düşün Serisi No: 55 / ISBN: 978-625-8352-92-4 DOI: 10.53478/TUBA.978-625-8352-92-4), 2024.
- 14.** Ağırarioğlu, N, and Özger M., Applied Computational Hydraulics for Engineers, NIVO Publisher, 330 p., 2024.

## SCIENTIFIC REPORTS

1. Ağırarioğlu, N., Waste Water Treatment for Adana City, (in Turkish), Dip. Ing. Thesis, İstanbul Technical University, 48 p., 1968.
2. Erkek, C., Müftüoğlu, F., Ağırarioğlu, N., and Saltabaş, L., Feasibility report on the Navigation Possibilities of Sakarya River, (in Turkish), Technical Report, İstanbul Technical University, İstanbul, 114 p., 1976.
3. Ağırarioğlu, N., Investigation of Flow in Siphon-Shaft Spillways and Development of their Hood Shapes, (in Turkish), Ph.D. Dissertation, İstanbul technical University, 206 p., 1977.
- 12.** Singh, V. P., and Ağırarioğlu, N., A Mathematical Investigation of Diverging Flow: Analytical Solutions, Technical Report, MSSU-EIRS-80-3, Engineering and Industrial Research Station, Mississippi State University, 175 p., 1980.
- 13.** Ağırarioğlu, N., and Singh, V. P., A Mathematical Investigation of Diverging Flow: 2. Numerical Solutions and Applications, Technical Report, MSSU-EIRS-80-4, Engineering and Industrial Research Station, Mississippi State University, 95 p. 1980.
- 14.** Ağırarioğlu, N., A Combined Runoff Model for Watersheds, (in Turkish), Thesis submitted for associate Professorship at İstanbul Technical University, 126 p., 1981.
- 15.** Ağırarioğlu, N., and others, Storm Drainage and Waste Water Treatment Project at the Area of İzmit Regional Authority of State Petroleum Company, (in Turkish), Technical Reports,

Istanbul Technical University, 3 Volumes, Investigation report, 79 p., Preliminary design, 114 p., and Application Design, 53 p, 1983.

16. **Ağıralioğlu**, N., and others, (in Turkish), Preliminary Report, Istanbul Technical University, 90 p., 1986.
17. **Ağıralioğlu**, N., Erkek, C., Kapdaşlı, S., and Uyumaz, A., "Increasing the Capacity of Reservoir and Protecting the Shore of Terkos Lake, (in Turkish), Technical report, Istanbul Water Authority, 128 p., 1987.
18. **Ağıralioğlu**, N., Erkek, C., Savcı, M.E., Improvement of Land for Housing at İğneada, (in Turkish), Final report, Istanbul technical University, 68 p., 1990.
19. Erkek, C., **Ağıralioğlu**, N., Kapdaşlı, S., and Savcı, M. E., Investigation of Improvement of Marine Structures at Beymelek Lagoon, (in Turkish), Final Report, Istanbul technical University, 1990.
20. Kapdaşlı, S., Erkek, C., and **Ağıralioğlu**, N., Improvement of Silivri Yacht Harbor and Shore Protection, (in Turkish), Final report, Istanbul technical University, 1991.
21. **Ağıralioğlu**, N., Erkek, C., Karahan, M. E., Kapdaşlı S., and Savcı, M.E., Investigation of Improvement of River Mouth in Manavgat River", (in Turkish)," Final Report, Istanbul Technical University, 1991. Ünsal, İ., Karahan, E., **Ağıralioğlu**, N., and others, Physical Model Studies for Erenler Hydroelectric Plant, (in Turkish), Final report, Istanbul Technical University, 1992.
22. **Ağıralioğlu**, N., Savcı, M.E., and others, Physical Model Studies for Fishery Harbor at Efırılı-Ordu, (in Turkish), Final Report, Istanbul Technical University, 1992.
23. Savcı, M.E., Erkek, C., **Ağıralioğlu**, N., and Aksoy, H., Physical Model Studies for Yacht Harbor at Kumburgaz - Güzelce in Istanbul, (in Turkish), Final Report, Istanbul Technical University, 110 p., 1993.
24. **Ağıralioğlu**, N., and others, Environmental Impact Assessment for Toprak Drug Facilities at Sakarya, (in Turkish), Technical Report, Sakarya University, 78 p., 1993.
25. **Ağıralioğlu**, N., Principles of River regulations and Shore Protection, (in Turkish), Seminar Notes for Educational Center of Local Authorities", 70 p., 1994.
26. **Ağıralioğlu**, N., Storm Water and River Regulation Projects at Gaziosmanpaşa in Istanbul, (in Turkish), Final report, Istanbul Technical University, 1994.

- 27.** Savcı, M.E., and **Ağırarioğlu**, N., Investigation of Sedimentation and Dredging in Fishery Harbor at Karaburun in Istanbul, (in Turkish), Final report, Istanbul Technical University, 32 p., 1995.
- 28.** **Ağırarioğlu**, N. and Karahan, M. E., Technical Report on River Mouth of Ayamama Creek, (in Turkish), Final report, Istanbul Technical University, 1997.
- 29.** **Ağırarioğlu**, N., Regulation design for River Mouth of Ayamama Creek, (in Turkish), Final report, Istanbul Technical University, 1997.
- 30.** **Ağırarioğlu**, N., Design of Storm Water Drainage for Çırpıcı Area in Istanbul, (in Turkish), Final report, Istanbul Technical University, 1997.
- 31.** **Ağırarioğlu**, N., Productivity of Universities in Turkey”, Engineering Foundation, 23 p., 1997.
- 32.** **Ağırarioğlu**, N. and others, Feasibility Study of Inland Navigation on Lower Sakarya Rive”, Sakarya University, 192 s., 1998.
- 33.** **Ağırarioğlu**, N., “Design of Storm Water Drainage for Çobançeşme Creek in Istanbul”, (in Turkish), Final report, Istanbul Technical University, 1998.
- 34.** **Ağırarioğlu**, N., Regulation of River and Improvement of River Mouth for Kemiklidere Creek-Pendik in Istanbul (in Turkish), Final report, Istanbul Technical University, 1998.
- 35.** **Ağırarioğlu**, N., and others, Navigation Feasibility Study of Connecting the Sakarya River with İzmit Bay, (in Turkish), Final report, Istanbul Technical University, Sakarya University, 280 p., 1999.
- 36.** **Ağırarioğlu**, N., River Mouth Regulation on Dedeoğlu Creek at Beykoz-Çubuklu, Istanbul, (in Turkish), Technical Report, Istanbul Technical University, 1999.
- 37.** **Ağırarioğlu**, N., Eren, R.H., and Yıldırım, G., Investigation of Water Resources for Landscape Irrigation in Istanbul Region, (in Turkish), Technical Report, Istanbul Technical University, 116 p., 2000.
- 38.** **Ağırarioğlu**, N., Estimation of Water Yield of the Small Dam Reservoirs in the İstanbul-Maltepe Region for Landscape Irrigation, Technical Report, Istanbul Technical University, 2000.
- 39.** **Ağırarioğlu**, N., (group Study), Izmit Bycrosssing Effects on the Hydrological Characteristics of the Marmara Sea, Gebze Higher Education Technology Institute, Final RepOrt, 2002.
- 40.** **Ağırarioğlu**, N., “River Mouth Regulation on Ayvalı Creek at Zeytinburnu, Istanbul”, (in Turkish), Technical Report, Istanbul Technical University, 2002.

- 41.** Ağırarioğlu, N., River Mouth Regulation on Sarıyer Creek at Istanbul, (in Turkish), Technical Report, Istanbul Technical University, 2003.
- 42.** Ağırarioğlu, N., River Mouth Regulation on Kadıköy- Maltepe Region Creeks at Istanbul, (in Turkish), Technical Report, Istanbul Technical University, 2003.
- 43.** Ağırarioğlu, N., Water Resources for Tekirdağ - Saray City Demand, (in Turkish), Technical Report, Istanbul Technical University, 2004.
- 44.** Ağırarioğlu, N., River Mouth Regulation on Silivri-Çantaderesi Creek at Istanbul, (in Turkish), Technical Report, Istanbul Technical University, 2005.
- 45.** Ağırarioğlu, N., Cıgozoglu, K., Yılmaz, L., Gonca Coşkun, Aksoy, H., Toprak F. Z., Eriş, E., Algancı, U., Andiç, G., Usta G., Beşiktaş, M., Ülken, İ., Akım Ölçümleri Olmayan Havzalarda Teknik Hidroelektrik Potansiyelin Belirlenmesi: TÜBİTAK Projesi Raporu, 187 s. 2009.
- 46.** Ağırarioğlu, N., Eriş, E: *Akarsu Düzenlemesinde Disiplinler Arası Planlama*, Yapı Dünyası, Eylül 162, 11-14, 2009.
- 47.** Ağırarioğlu, N., Eriş, E.: *Akarsu Düzenlemesinde Gelişmeler*, TMMOB İnşaat Mühendisleri Odası İstanbul Şubesi, İstanbul Bülten, Sayı 106 (Şubat), 19-25, 2010.
- 48.** Uyumaz, A, Ağırarioğlu, N, Savcı, M.E., Erdik Tarkan, Eriş E., İstanbul İli, Garanti Bankasının Doğu Mahallesi Tuzla Geçidi Mevkii Parsellerinin Taşkın Riski Hakkında Rapor, İTÜ İnşaat Fakültesi, 2009.
- 49.** Savcı, M. E., Ağırarioğlu, N., İstanbul'da sonlanan Uluslararası Fiber Optik Deniz Kablosunun İstanbul Karaya Çıkışında Deniz Tabaanına Döşenmesi Hakkında Teknik Rapor, İTÜ İnşaat Fakültesi, 2010.

## SUPERVISION FOR THE FOLLOWING MASTER THESES

**27 MS theses have been completed.**

1. Coşkunmeric, E. S., "Kinematik Modelin Nümerik Çözümü", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1984.
2. Erkesim, H. "Kinematik Akım Modelinin Özel Hallerinin Karşılaştırılması", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1984.

3. **İlter**, K. "Rezervuar Sedimentasyonu ve Seyhan ile Çubuk I Rezervuarlarının Sedimentasyon Durumunun İncelenmesi", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1985.
4. **Okay**, F. "Baraj Rezervuarlarında Sedimentasyonun Matematik Modelle İncelenmesi", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1987.
5. **Birol**, H. "Küçük Akarsular İçin Debi Ölçüm Tesisleri", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1988.
6. **Özkan**, Z. "Batardoların Projelendirilmesi İçin Taşkın Hesap Metotları", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1988.
7. **Keskin**, M. E. "Farklı En kesitli Akarsularda Kinematik Modelle Taşkın Ötelemesi", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1989.
8. **Türker**, S. "Orta Karadeniz'de Kıyı-Yapı Etkileşimi", 1992.
9. **Ulukaya**, O. "Aktif Hazne Hacmi Hesap Metotları ve Bozkır ile Sultansuyu Barajlarında Uygulamaları", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 1998.
10. **Küçük**, M. "Kazıklı Su Yapılarında Etki Eden Kuvvetler ve Bilgisayar Destekli Tasarım Kriterleri", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2000.
11. **Doğan**, U. "Sakarya Havzasında Aylık Akış Miktarlarının Yağış-Akış Modelleriyle Hesaplanması", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2001.
12. **Yıldırım**, G. "Damla Sulamasında Lateral Boruların Bilgisayar Destekli Projelendirilmesi", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2001.
13. **Sürmeli**, A.S. "Silindirle Sıkıştırılmış Ağırlık Beton Barajlar ve Bunların Ağırlık Beton Barajlarla Karşılaştırılması", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2002.
14. **Genç**, O. "Baraj Planlaması, Ekonomik Analiz, Mali Analiz ve Maliyet Ayırımı", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2003.
15. **Sarıgöl**, M. "Akarsu Taşımacılığının Dünyadaki Durumu ve Karasu Nehrinde Taşımacılık Potansiyelinin İncelenmesi", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2003.
16. **Eynur**, Z. "Baraj Altındaki Sızmaların Analiz ve Kontrolü: Sazlıdere Barajı Uygulaması", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2004.
17. **Köksal**, F. D. "Liman İçi Dalga Çalkantısında Kullanılan Nümerik Modelleme MIKE 21 BW", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2004.
18. **Sinan**, M. "Türkiye'de Yağışın Zamanla Dağılımının Belirlenmesi", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2005.

- 19. Mesci**, S. B. "Dolgu Baraj Gövdelerindeki Sızmaların ve Freatik Hattın İncelenmesi: Seferhisar Barajı Uygulaması", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2005.
- 20. Özökök**, V. "Hidroelektrik Potansiyel Belirleme Metotları ve Uygulamaları", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2006.
- 21. Çilingir**, H. "Toprak Dolgu Barajların Gövdelerindeki Sızmaların Sonlu Elemanlar Yöntemi ile İncelenmesi: Küçükçekmece Barajı Uygulaması", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2007.
- 22. Andiç**, G. Akım Ölçümü Olmayan Havzalarda Aylık Ortalama Akımın Belirlenmesi", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2007.
- 23. Kaya**, D. "Biriktirmeli ve Biriktirmesiz Hidroelektrik Santraların Teknik Açıdan Karşılaştırılması", İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2007.
- 24. Tekin**, A.M. Su Deşarj Sistemlerinde Su Darbesinin Matematik Modelle İncelenmesi, İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2008.
- 25. Ayaz**, E. Solaklı Havzasında Aylık ve Yıllık Debi Sürekliklik Eğrilerinin Normalleştirme Yöntemiyle İncelenmesi, İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2009.
- 26. Beşiktaş** M. Doğu Karadeniz'de Debi Sürekliklik Eğrilerinin Regresyon Analizi ile Belirlenmesi ve Akım Tahmini, İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2009.
- 27. Kadıoğlu**, C. Balık Geçitlerinin Sayısal Analiz ile Modellenmesi, İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2010.
- 28. Usta, G.** Doğu Karadeniz Bölgesinde Yağışın Akım Verileri ile Belirlenmesi, İTÜ Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2011 (Eş Danışman: Prof. Dr. Gonca Coşkun).
- 29. Gündoğdu**, F. Çeşitli Ülkelerde Uygulanan Baraj Tasarım Taşkınlarının İncelenmesi, İTÜ, Fen Bilimleri Enstitüsü, Yüksek Lisans Tezi, 2011.

#### SUPERVISION FOR THE FOLLOWING PHD THESES

- 1. Demirpençe**, H. "Toprak Dolgu Barajların Yıkılması ve Oluşan Taşkının Dinamik Öteleme Metodu ile İncelenmesi", İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 1994.
- 2. Keskin**, M. E. "Taşkın Dalgasının Bağımlı Değişken Parametreli Bir Modelle İncelenmesi", İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 1994.
- 3. Sandalci**, M. "Akarsuların Denizlerdeki Kıyı Çizgisine ve Yapılarına Etkisinin Bir Matematik Modelle İncelenmesi", İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 1995.

4. **Şaşal**, M, “Kıyıboyu Katı Madde Taşınım Modelleriyle Doğu Karadeniz Bölgesindeki Kıyı Çizgisi Değişimlerinin İncelenmesi”, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2001.
5. **Üneş**, F. “Coriolis İvmesinin ve Hazne Çıkış Seviyesinin Haznelerdeki Dalmış Akıma Etkilerinin Matematik Modelle İncelenmesi”, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2003.
6. **Küçük**, M. “Dalgacık Dönüşüm Tekniği Kullanılarak Akım Serilerinin Modellenmesi”, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2004.
7. **Mohamed**, H. G. “Effects of Inclined Cut-Offs and Foundation Soil on Seepage Flows Beneath a Hydraulic Structure”, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2004.
8. **Aytek**, A. “Akarsu Deltaları Oluşumunun Matematik Modellenmesi”, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2005.
9. **Yıldırım**, G. “Mikro Sulama Lateral Borularında Hidrolik Hesap Metotlarının Karşılaştırmalı Analizi ve Çok Çaplı Borular İçin Lineer Çözüm Metodu”, İTÜ, Fen Bilimleri Enstitüsü, Doktora Tezi, 2006.
10. **Eriş**, E. Determination of Spatial Distribution of Precipitation on Poorly Gauged Coastal Regions, İTÜ, Institute of Science and Technology, PhD. Thesis, 2011.
11. **Ulukaya**, O. Yağış-Akış Bağıntıları ve Yapay Zekâ teknikleri ile Modellenmesi, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2011.
12. **Genç**, O. Akarsularda Akım Özelliklerinin Entropi Yöntemi ile İncelenmesi, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2013.
13. **Andiç**, G. Sifonik Sistem Çatı Drenajına Etkiyen Parametrelerin Değerlendirilmesi, İTÜ Fen Bilimleri Enstitüsü, Doktora Tezi, 2013.
14. **Dede**, A., Hidrolojik sapan değer tespitine yeni bir yaklaşım, İstanbul Teknik Üniversitesi, Lisansüstü Eğitim Enstitüsü, Doktora Tezi. 2023.