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Dip. Ing. and Ph. D.
Professor of Civil Engineering
Antalya Bilim University,
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Personality data:

Necati Ağırlioğlu, 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 – Dec. 2020	Dean of Engineering Faculty, Antalya Bilim University, Antalya.

Supervised theses and dissertations:

13 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:

PAPERS, EXPANDED SCI, SSCI, AHCI (RESULTS: 40)

1. GENETIC PROGRAMMING FOR TURBIDITY PREDICTION: HOURLY AND MONTHLY SCENARIOS, By *Bahrudin Hrnija, Ali Danandeh Mehr, Behrem Sefik, Necati Ağralioğlu*, Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, 25(8), 992-997, 2019

2. **Streamflow map of the Eastern Black Sea Region, Turkey**

By: Eris, E.; **Agiralioglu, N.** SCIENTIA IRANICA Volume: 25 Issue: 3 Pages: 1048-1056 Published: MAY-JUN 2018

3. **PRACTICAL METHODS FOR THE ESTIMATION OF HYDROELECTRIC POWER POTENTIAL OF POORLY GAUGED BASINS**, By: **Agiralioglu, Necati**;

Eris, Ebru; Andic, Gokhan; et al., SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI Volume: 35 Issue: 2 Pages: 347-358 Published: 2017

4. **Determination of Spatial Distribution of Precipitation on Poorly Gauged Coastal Regions: Eastern Black Sea Region**, By: Eris, Ebru; **Agiralioglu, Necati**,

TEKNIK DERGI Volume: 28 Issue: 1 Pages: 7685-7702 Published: JAN 2017

5. **Numerical Investigation of Temporal Variation of Density Flow and Parameters**

By: Unes, F.; **Agiralioglu, N.**, JOURNAL OF APPLIED FLUID MECHANICS Volume: 10 Issue: 1 Pages: 81-94 Part: 1 Published: JAN 2017

6. **Wave power potential assessment of Aegean Sea with an integrated 15-year data**

By: Jadidoleslam, Navid; Ozger, Mehmet; **Agiralioglu, Necati**, RENEWABLE ENERGY Volume: 86 Pages: 1045-1059 Published: FEB 2016

7. **Calculation of mean velocity and discharge using water surface velocity in small streams**, By: Genc, Onur; Ardiciloglu, Mehmet; **Agiralioglu, Necati**, FLOW MEASUREMENT AND INSTRUMENTATION Volume: 41 Pages: 115-120 Published: MAR 2015

8. **The analysis of 2004 flood on Kozdere Stream in Istanbul**, By: Celik, Huseyin

E.; Coskun, Gonca; Cigizoglu, H. Kerem; **et al.**, NATURAL HAZARDS Volume: 63 Issue: 2 Pages: 461-477 Published: SEP 2012

9. **Investigation of flow properties in natural streams using the entropy concept**

By: Ardiciloglu, Mehmet; Genc, Onur; Kalin, Latif; **et al.**, WATER AND ENVIRONMENT JOURNAL Volume: 26 Issue: 2 Pages: 147-154 Published: JUN 2012

10. **Remote Sensing and GIS Innovation with Hydrologic Modelling for Hydroelectric Power Plant (HPP) in Poorly Gauged Basins**, By: Coskun, H. Gonca; Alganci, Ugur; Eris,

Ebru; et al, WATER RESOURCES MANAGEMENT Volume: 24 Issue: 14 Pages: 3757-3772 Published: NOV 2010

11. **Effect of coastline configuration on precipitation distribution in coastal zones**

By: Eris, Ebru; **Agiralioglu, Necati**, HYDROLOGICAL

PROCESSES Volume: 23 Issue: 25 Pages: 3610-3618 Published: DEC 15 2009

12. **Modeling Monthly Mean Flow in a Poorly Gauged Basin by Fuzzy Logic**

By: Toprak, Zeynel Fuat; Eris, Ebru; **Agiralioglu, Necati**; et al., CLEAN-SOIL AIR

WATER Volume: 37 Issue: 7 Pages: 555-564 Published: JUL 2009

13. **Hydrological modeling of ungauged basins using Remote Sensing and GIS: a case study of Solakl Watershed in Turkey**, By: Alganci, U.; Coskun, H. G.; Usta, G.; et al.

Conference: 28th European-Association-of-Remote-Sensing-Laboratories (EARSeL) Symposium and Workshops on Remote Sensing for a Changing Europe Location: Istanbul Tech Univ, Remote Sensing Div, ITU Maslak Campus, Istanbul, TURKEY Date: JUN 02-05, 2008

Sponsor(s): European Assoc Remote Sensing Labs, REMOTE SENSING FOR A CHANGING EUROPE Pages: 305-312 Published: 2009

14. **Effects of anthropogenic activities on the Lower Sakarya River**, By: Isik,

Sabahattin; Dogan, Emrah; Kalin, Latif; et al., CATENA Volume: 75 Issue: 2 Pages: 172-181 Published: OCT 15 2008

15. **Wavelet regression technique for streamflow prediction**, By: Kuecuk,

Murat; **Agiralioglu, Necati**, JOURNAL OF APPLIED

STATISTICS Volume: 33 Issue: 9 Pages: 943-960 Published: NOV 2006

16. **Closure to "Comparative analysis of hydraulic calculation methods in design of microirrigation laterals" by Gurol Yildirim and Necati Agiralioglu**, By: Yildirim, G; Agiralioglu, N. JOURNAL OF IRRIGATION AND DRAINAGE

ENGINEERING Volume: 132 Issue: 1 Pages: 85-88 Published: JAN-FEB 2006

17. **Closure to "Linear solution for hydraulic analysis of tapered microirrigation laterals" by Gurol Yildirim and Necati Agiralioglu**, By: Yildirim, G; **Agiralioglu, N.** JOURNAL OF IRRIGATION AND DRAINAGE, ENGINEERING

Volume: 131 Issue: 5 Pages: 490-491 Published: SEP-OCT 2005

18. **Discussion of "Explicit hydraulic design of microirrigation submain units with tapered manifold and laterals" by John D. Valiantzas**, By: Yildirim, G; **Agiralioglu, N.** JOURNAL OF IRRIGATION AND DRAINAGE, ENGINEERING

Volume: 131 Issue: 3 Pages: 299-299 Published: MAY-JUN 2005

19. **Discussion of "Inlet pressure, energy cost, and economic design of tapered irrigation submains" by John D. Valiantzas**, By: Yildirim, G; **Agiralioglu, N.** JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING

Volume: 131 Issue: 2 Pages: 220-224 Published: MAR-APR 2005

20. **Discussion of "Equivalent friction factor method for hydraulic calculation in irrigation laterals"** by Pedro Vallesquino and Pedro L. Luque-Escamilla, By: Yildirim, G; Agiralioglu, N. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING Volume: 130 Issue: 4 Pages: 335-339 Published: JUL-AUG 2004
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, By: Yildirim, G; Agiralioglu, N. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING Volume: 130 Issue: 4 Pages: 344-346 Published: JUL-AUG 2004
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23. **Discussion of "Determining minor head losses in drip irrigation laterals. 1: Methodology"** by Luis Juana, Leonor Rodriguez-Sinobas, and Alberto Losada By: Yildirim, G; Agiralioglu, N. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING Volume: 130 Issue: 3 Pages: 248-252 Published: MAY-JUN 2004
24. **Linear solution for hydraulic analysis of tapered microirrigation laterals** By: Yildirim, G; Agiralioglu, N. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING Volume: 130 Issue: 1 Pages: 78-87 Published: JAN-FEB 2004
25. **Discussion of "Continuous outflow variation along irrigation laterals: Effect of the number of outlets"** by John D. Valiantzas, By: Yildirim, G; Agiralioglu, N. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING Volume: 129 Issue: 5 Pages: 382-386 Published: SEP-OCT 2003
26. **Discussion of "New algorithm for hydraulic calculation in irrigation laterals"** by Pedro Vallesquino and Pedro L. Luque-Escamilla, By: Yildirim, G; Agiralioglu, N. JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING Volume: 129 Issue: 2 Pages: 142-143 Published: MAR-APR 2003
27. **Tests of a siphon-shaft spillway with cylindrical hoods**, By: Agiralioglu, N; Sasal, M; Karpuz, S, Conference: International Water Resources Engineering Conference Location: MEMPHIS, TN Date: AUG 03-07, 1998, Sponsor(s): Amer Soc Civil Engineers, Water Resources Engn; US Geol Survey; US EPA, Wetlands Div WATER RESOURCES ENGINEERING 98, VOLS 1 AND 2 Pages: 1440-1445 Published: 1998
28. **A simplified dynamic model for flood routing in rectangular channels** By: Keskin, ME; Agiralioglu, N., JOURNAL OF HYDROLOGY Volume: 202 Issue: 1-4 Pages: 302-314 Published: DEC 25 1997
29. **HOOD CHARACTERISTICS FOR SIPHON-SHAFT SPILLWAYS**

By: **AGIRALIOGLU, N**; MUFTUOGLU, RF, JOURNAL OF HYDRAULIC ENGINEERING-ASCE Volume: 115 Issue: 5 Pages: 636-649 Published: MAY 1989

30. **ESTIMATION OF THE TIME OF CONCENTRATION FOR DIVERGING SURFACES**, By: **AGIRALIOGLU, N.** HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES Volume: 33 Issue: 2 Pages: 173-179 Published: APR 1988

31. **A DIMENSIONLESS SOLUTION OF LAG TIME FOR DIVERGING SURFACE**
By: **AGIRALIOGLU, N.** NORDIC HYDROLOGY Volume: 18 Issue: 1 Pages: 59-62 Published: 1987

32. **ANALYTICAL SOLUTION OF LEAF-SHAPED BASIN FLOW**
By: **AGIRALIOGLU, N.** HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES Volume: 30 Issue: 3 Pages: 407-424 Published: 1985

33. **A COMPARISON OF WATER LAG TIMES FOR CONVERGING AND PLANE SURFACES**, By: **AGIRALIOGLU, N.** NORDIC HYDROLOGY Volume: 16 Issue: 3 Pages: 169-176 Published: 1985

34. **CORRECTION**, By: **AGIRALIOGLU, N.** JOURNAL OF THE HYDRAULICS DIVISION-ASCE Volume: 108 Issue: 7 Pages: 883-884 Published: 1982

35. **LAG TIME FOR DIVERGING OVERLAND-FLOW**, By: **SINGH, VP**; **AGIRALIOGLU, N.** NORDIC HYDROLOGY Volume: 13 Issue: 1 Pages: 39-48 Published: 1982

36. **Diverging overland flow**, By: Singh, Vijay P.; **Agiralioglu, Necati**, ADVANCES IN WATER RESOURCES Volume: 4 Issue: 3 Pages: 117-124 Published: SEP 1981

37. **OVERLAND-FLOW ON A DIVERGING SURFACE**, By: **AGIRALIOGLU, N**; **SINGH, VP**, HYDROLOGICAL SCIENCES BULLETIN-BULLETIN DES SCIENCES HYDROLOGIQUES Volume: 26 Issue: 2 Pages: 137-147 Published: 1981

38. **WATER ROUTING ON DIVERGING-CONVERGING WATERSHEDS**
By: **AGIRALIOGLU, N.**, JOURNAL OF THE HYDRAULICS DIVISION-ASCE Volume: 107 Issue: 8 Pages: 1003-1017 Published: 1981

39. **DIVERGING OVERLAND-FLOW: 1. ANALYTICAL SOLUTIONS**
By: **SINGH, VP**; **AGIRALIOGLU, N.** NORDIC HYDROLOGY Volume: 12 Issue: 2 Pages: 81-98 Published: 1981

40. **DIVERGING OVERLAND-FLOW: 2. APPLICATION TO NATURAL WATERSHEDS**, By: **SINGH, VP**; **AGIRALIOGLU, N.** NORDIC HYDROLOGY Volume: 12 Issue: 2 Pages: 99-110 Published: 1981

OTHER INTERNATIONAL JOURNAL PAPER

1. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, N.**, “Estimation of the Time of Concentration for Diverging Surface”, ESCAP, Water Resources Journal, (reprint), pp. –27, December 1988.
4. Ebru, E, **Ağralioğlu, 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.
5. Taş, Erkin; **Ağralioğlu, 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.

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1. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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. **Ağralioğlu, 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 **Ağralioğlu, 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 **Ağralioğlu, 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. **Ağralioğlu, 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., **Ağralioğlu, 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 **Ağralioğlu, 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. **Ağralioğlu, 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 **Ağralioğlu, 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., Tiğli, E., **Ağralioğlu, 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., **Ağralioğlu, N.**, The Comparison of Generated Daily Stream Flow Data Using Wavelet and Markov Models. *BHS International Conference Hydrology: Science & Practice for the 21st Century, July, London, UK. 2004*.
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22. Üneş, F., **Ağralioğlu 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. **Ağralioğlu 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.
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Sensing and GIS: a case study of Solaklı Watershed in Turkey” ,28th EARSeL Symposium and Workshops, Remote Sensing for a Changing Europe, 2-7 June, Istanbul, Turkey, Abstract, 2008.

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26. M Ardicioglu, 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 Ağırالیođlu**, HG Coşkun, Case Studies III: Secure Fish Passage Design for Sustainable Fish Populations: A Case Study in Vereinigte Weißeritz 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 Ağırالیođlu**, 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 Ağırالیođlu**, 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 Ağırالیođlu**, 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.

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1. **Ağralıođlu, N.**, “Submerged Flow on Sharp Crested Weirs”, Technical Bulletin of State Hydraulic Works, (in Turkish), Vol. 28, pp. 88 –99, May 1978.
2. İter, K., and **Ağralıođlu, N.**, “Determination of Reservoir Sedimentation”, Technical Bulletin of State Hydraulic Works, (in Turkish), Vol. 61, pp. 3 -15, 1987.
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