



TAGEM
R&D AND INNOVATION

BLACK SEA AGRICULTURAL RESEARCH
INSTITUTE / SAMSUN

DR. ASLIHAN CANTÜRK

Agricultural Engineer (PhD)

EDUCATION

- PhD**
2011-2019
Ondokuz Mayıs University
Graduate School of Sciences
Department of Agricultural Structure and Irrigation
- MSc**
2009-2011
Ondokuz Mayıs University
Graduate School of Sciences
Department of Agricultural Structure and Irrigation
- Bachelor's Degree**
2009-2011
Ondokuz Mayıs University
Faculty of Agriculture
Department of Agricultural Structure and Irrigation

LANGUAGE English UDS 55,00


CAREER

- 2011- - Researcher – Black Sea Agricultural Research Institute - SAMSUN


ABOUT ME

I was born in 1987 in Rize. In 2009, I graduated from Ondokuz Mayıs University, Faculty of Agriculture. I completed the master's degree in 2011 and doctoral programs in 2019 in the Department of Agricultural Structures and Irrigation at the same university. Since I was appointed to Samsun Black Sea Agricultural Research Institute in 2011, I have been working on the performance of artificial intelligence, agricultural irrigation, limited irrigation, pressure irrigation systems in the Agricultural Irrigation and Land Reclamation unit of the Soil and Water Resources Department.

CONTACT

 Karadeniz Tarımsal Araştırma Enstitüsü
Çiftlik Mah. Atatürk Bulvarı No: 313
(Samsun - Ordu Karayolu 17. km),
Gelemen, Tekkeköy / SAMSUN
55300 TÜRKİYE

 aslihan.atis@tarimorman.gov.tr

 +90 362 256 05 14-15



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▪ **PROJECTS**

▪ **Projects Conducted**

1. Determination of technical performance of drip irrigation systems used in Turkey and impact analysis of drip irrigation supports (National Project-Sub-Project Responsibility).
2. Using Artificial Intelligence Applications in Determining the Programming of Eggplant Plant - TUBITAK (1001) 2015_2018 (Assistant Researcher).
3. Investigation of the Use of Drip Irrigation Systems in Rice in Bafra Plain Conditions-TAGEM-2019_2021 (Assistant Researcher).
4. The Use of Micro Water Harvesting Technique in Watermelon and Melon Production in the Central Black Sea Region – TAGEM- 2017_2019 (Assistant Researcher).
5. Estimation of Crop Water Consumption of Corn in Samsun Conditions from Landsat 8 Satellite Images - TAGEM 2013_2016. (Assistant researcher).

▪ **Ongoing Projects**

1. The Effect of Supplementary Irrigation on Yield and Quality Parameters of Hazelnut Grown in Samsun and Giresun Conditions-TAGEM-2018_... (Project Leader).
2. Development of Digital Irrigation Management System (DiSU) Sub-Project: Development of Digital Irrigation Management System for Wheat and Soybean Crops Grown in Bafra Plain Conditions-TAGEM - 2021. (Assistant Researcher).
3. Detection of Weeds Problematic in Drip Irrigation in Rice in Bafra Plain Ecological Conditions and Investigation of Herbicide Usage Possibilities. TAGEM - 2021. (Assistant Researcher).
4. Determination of the Most Appropriate Irrigation Program for Carsamba Plain Pear Cultivation-TAGEM – 2021_.... (Assistant Researcher).
5. Effects of Water Stress Applications on Morphological and Physiological Changes in Some Hazelnut VarietiesTAGEM-2020-... (Assistant Researcher)
6. Determination of the Most Appropriate Irrigation Program for Peach Farming in Çarşamba Plain -TAGEM – 2018_.... (Assistant Researcher)
7. Establishment of Plant Irrigation Programs According to Water Saving Irrigation Methods in Restricted Water Conditions (National Project) Sub-Project: The Effect of Subsurface and Surface Drip Irrigation Method on Growth, Yield and Quality of "Early Red One" Apple Grafted on M9 Clonal Rootstock-TAGEM-2016_... -(Assistant researcher)



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▪ **PUBLICATIONS**

▪ **INTERNATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in International Journals**

1. Taşan, S., Cemek, B., Taşan, M., & Cantürk, A. (2022). Estimation of eggplant yield with machine learning methods using spectral vegetation indices. *Computers and Electronics in Agriculture*, 202, 107367.

▪ **International Papers, Seminars, etc.**

1. Canturk A., Yildirim D. And Cemek B. 2021. Modeling Average, Maximum and Minimum Temperatures Using Artificial Neural Networks and Times Series Methods. 2. International and 15. National Congress on Agricultural Structures and Irrigation-ICASI, 12 – 15 May, Diyarbakir.
2. Tasan S., Cemek B., Tasan M. and Canturk A., 2021. Estimation of Daily Minimum, Maximum and Mean Temperature by Five Machine Learning Algorithms. 2. International and 15. National Congress on Agricultural Structures and Irrigation-ICASI.
3. Cantürk. A., Taşan, M., Koç, Y., Macit, İ., Arslan, H. 2018. Determination of the Distribution Map of Gypsum Need in the Cherry Garden by the Geographical Information Systems. The 2nd UNIDOKAP International Symposium on BIODIVERSITY, 28-30 November, Samsun Turkey.
4. Taşan, S., Taşan, M., Cantürk, A. 2018. Comparison of Different Empirical Methods for Estimating Reference Evapotranspiration in Samsun Climatic Conditions. The 2nd UNIDOKAP International Symposium on BIODIVERSITY, 28-30 November, Samsun Turkey.
5. Yildirim, D., Cemek, B., Ünlükara, A., Atiş, A., Taşan, M., 2015. Evaluation of Soil Moisture Content by Different Interpolation Methods. 4th Congress of Soil and Water Resources with International Participation Kahramanmaraş.
6. Cemek, B., Atiş, A., Küçüktopçu, E., 2015. Evaluation of Various Turbulence Models Performance for Greenhouse Simulation. The Second International Symposium on Agricultural Engineering, BelgradeZemun, Serbia, p: V-39 52, ISBN: 978-86-7834-232-5.
7. Atiş, A., Cemek, B., Taşan, M., Safi, S., 2015. Determination of Evapotranspiration with Deterministic Models for Samsun. 2nd International Conference on Sustainable Agriculture and Environment (2nd ICSAE), vol:1, p: 296-304. Selcuk University Campus, Konya, Turkey
8. Cemek, B., Atiş, A., 2013. Artificial Intelligence Applications in Soil and Water Resources. III. Soil and Water Resources Congress, 22 – 24 October, Tokat.

▪ **NATIONAL ARTICLES AND PAPERS**

▪ **Articles Published in National Journals**

1. Arslan, H., Cemek, B., Yildirim, D., Atiş, A., 2012. Evaluation of sea water initiatives by geostatistical methods. II. National Irrigation and Agricultural Structures Symposium. Izmir-Bornova.
2. Cemek, B., Atiş, A., 2012. Determination of wind speed distributions in greenhouse models suitable for Samsun conditions using Computational Fluid Dynamics (CFD). II. National Irrigation and Agricultural Structures Symposium. Izmir-Bornova.



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3. Cemek, B., Yıldırım, D., Atış, A., Köksal, E. S., Temizel, K. E.. 2010. Estimation of monthly reference plant water consumption in Samsun province with artificial neural networks. I. National Soil and Water Resources Congress. Eskisehir.
4. Cemek, B., Demir, Y., Yıldırım, D., Atış, A., 2010. Estimation of greenhouse heating requirement using artificial neural networks. National Irrigation and Agricultural Structures Symposium, 499-509. Kahramanmaraş.

▪ **OTHER PUBLICATIONS**

▪ **Ph.D. Thesis**

1. Applications of Fuzzy Logic in Determining the Irrigation Programming of Eggplant Plant (PhD Thesis- Ondokuz Mayıs University, Institute of Science, Agricultural Structures and Irrigation Department-2019).

▪ **Master Thesis**

1. Determination of Natural Ventilation Efficiency of Different Greenhouse Models Suitable for Samsun Conditions Using Computational Fluid Dynamics (CFD) (Master Thesis - Ondokuz Mayıs University, Institute of Science, Department of Agricultural Structures and Irrigation - 2011)

▪ **Reports, Books etc.**

1. Çetin Ö., Sönmez B., Küçükcoşkun Ş., Bilgen Karaca G., Gönen E., Çolak Bozkurt Y., Özfıdaner M., Baydar A., Çebi Ü., Özer S., Öztürk O., Aydın B. ., Dinç N., Aydınşakir K., Özbek Ö., Tunç T., Evren S., Uygan D., Fidantemiz Y.F., Cantürk A., Taşan M., Yıldırım D., Avağ K., Güngör B., Dündar MA., Demirci S., Özçelik S., Gündüz M., Şen S., Nacar A.S., Taş Anlağan M., Doğan P., Karabat K., Afacan H., Ölmez Ataol H., 2022. Deficit Irrigation Guide for Crops Grown in Turkey. Ministry of Agriculture and Forestry, General Directorate of Agricultural Research and Policies. Ankara Turkey.

▪ **Membership, Training, Course, Meeting, Congress, Symposium and Other Activities**

1. FIGES, Computer Simulation in Physics and Geometry A.S. "Introduction to ANSYS FLUENT" Date on April 27-29 2011 İstanbul-TURKEY (Training – Participant).
2. Reduced Tillage, Ridge Sowing Methods and Dry Conditions Cultivation Techniques. 24-28 October 2011. Şanlıurfa-TURKEY (Training – Participant).
3. Statistics and Trial Technique-Jmp application, 06-10 February 2012, Samsun-TURKEY. (Training - Participant).
4. II. National Irrigation and Agricultural Structures Symposium, 24-25 May 2012, İzmir-TURKEY. (Congress - Poster Presentation).
5. Agricultural Irrigation and Project Preparation Techniques. 03-07 December 2012. Şanlıurfa-TURKEY. (Training – Participant).
6. III. National Soil and Water Resources Congress 22-24 October 2013 Tokat-Turkey (Congress - Presentation).
7. Water Harvesting in Arid and Semi-Arid Areas. 24-28 November 2014. Şanlıurfa- TURKEY. (Meeting – Participant).



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- 8.** “Assessment of Water Use Efficiency in Irrigated Areas” and “Use, Installation and Calibration of Soil Moisture Sensors” (within the scope of the Guided Project activities, Determining the Technical and Economic Performance of Drip Irrigation Systems Used in Turkey). 06-11 March 2017. International Agricultural Research and Education Center. İzmir-TURKEY (Education – Participant).
- 9.** English Language Course, The Turkish Ministry of Food, Agriculture and Livestock CIMMIYT/ICARDA, The Turco-British Association, 21 January 2013 and 24 May 2018 (480 hours) Ankara-TURKEY (Education – Participant).
- 10.** The 2nd International UNIDOKAP Black Sea Symposium on BIODIVERSITY, 28-30 Nov. 2018 Samsun-TURKEY (Congress - Presentation and Poster Presentation).
- 11.** Introduction to Artificial Intelligence. Ankara university. April 15, 2020. (Online Training-119 Participant)
- 12.** National and International Article Writing Training. Animal Husbandry and Fisheries Research Department. April 15, 2020 (Online Training with 115 participants – Participants).
- 13.** Project preparation training for Horizon 2020 Era-net calls. Department of Agricultural Economics and Project Management. April 16, 2020. (Online Training with 109 participants – Participants).
- 14.** Web Based Remote Sensing Applications. Yalova Atatürk Horticultural Central Research Institute. April 27, 2020. (Online Training 41 participants – Participant).
- 15.** GIS and Remote Sensing Applications with Arcgis, QGIS and Snap. Yalova Atatürk Horticultural Central Research Institute. April 27, 2020. (Online Training 33 participants – Participants).
- 16.** Remote Sensing. Yildiz Technical University. April 30, 2020. (Online Education 32 participants-Participants).
- 17.** Geographic Information System (GIS). Istanbul Technical University. April 30, 2020. (Online Training 29 participants – Participant).
- 18.** Office applications (Ms Office and Open Office) software with excel program and vbasic macro education as intermediate and advanced level. Field Crops Central Research Institute. May 12, 2020. (Online Training 17 participants – Participant).
- 19.** International Congress on Agricultural Structures and Irrigation (ICASI). 12-15 May 2022. Diyarbakir-TURKEY. (Congress – Presentation).
- 20.** Domestic National R&D Innovation Studies Meeting in Irrigation Technologies. October 5-6. Ankara Turkey. (Meeting – Participant)