

Dr. Cenk Dönmez

Position: Researcher at Leibniz Center for Agriculture Landscape Research (ZALF), Agricultural Landscape Systems (RA3)
Working group Impact Assessment of Land-Use Changes

Associate Professor at University of Cukurova, Turkiye, Graduate School of Natural Sciences, Department of Remote Sensing and GIS



Academic education and scientific degrees

03/2008 – 11/2012 PhD at University of Cukurova, Faculty of Agriculture, Department of Landscape Architecture

02/2006 – 02/2008 MSc at University of Cukurova, Faculty of Agriculture, Department of Landscape Architecture

Professional experience

Since 03/2017 Associate Professor of University of Cukurova, Turkiye, Graduate School of Natural Sciences, Department of Remote Sensing and GIS

12/2012-02/2017 Assistant Professor of University of Cukurova, Turkiye, Graduate School of Natural Sciences, Department of Remote Sensing and GIS

2009–2010 Research Scholar at Friedrich – Schiller University, Germany, Geoinformatics, Hydrology and Modelling Department

05-10/2010 Research Scholar at University of California Santa Barbara, USA, Department of Geography

05-09/2009 Research Scholar at University of Boston, USA, Department of Geography and Environment

Research Profile

Background

- Multi-sensor remote sensing analysis and Geographical Information Systems (GIS) on environmental monitoring
- Assessing the impacts of land use and climate change on ecosystem services (water, carbon, soils) from local to regional scales
- Hydrological and biogeochemical model implementation across scales

Research Activities

- Coordination and curation of Long-Term Field Experiments (LTE) data (meta) and further developing the geospatial LTE overview map
- Analysis of LTE data for meta-analysis and modelling activities on soil dynamics, climate change impacts and scenario analysis
- Performing GIS, remote sensing and machine learning operations including geoprocessing tools, spatial analysis, cartography, creating/editing geographic data sets (raster/vector) for quantification of ecosystem services and trade-offs

Functions and memberships

Since 2022 Member of European Geosciences Union (EGU)

2008	Member of International Society for Photogrammetry and Remote Sensing (ISPRS)
2007	Member of American Society for Photogrammetry and Remote Sensing (ASPRS)
Since 2006	UCTEA Chamber of Landscape Architects

Awards and Honors

2014	Best proceeding award in VI. Remote Sensing Conference of Turkey
2010	Best publication award by the Japanese Society of Irrigation, Drainage and Rural Engineering (In a book chapter in the Climate Change Impacts on Basin Agro-ecosystem, Springer the Anthropocene)
2011	Best scientific poster award by State Hydraulic Works of Turkey, Poster Contest on Water and Climate Research

Grants and Fellowships

2020	Recipient of Marie–Curie Actions Mobility Fellowship, European Union (FP7-PIRSES). University of California Santa Barbara (USA)
2012	Participation Grant by the European Union: 1st training school on Land Biosphere Modeling. European Space Agency, Frascati, Italy
2010	Recipient of DAAD (German Academic Exchange Service) scholarship
2008	Participation Grant by Friedrich–Schiller University: Course on Watershed Modelling with Modular Modelling System. Jena, Germany

Research Experience and Mobility

2018	Visiting Scientist: Finnish Meteorological Institute, Finland, Remote Sensing Research Group
2016	Visiting Scientist: Lviv Polytechnic University, Ukraine, Geodesy Institute
2012	Visiting Scholar: Johann Wolfgang Goethe University, Germany, Institute of Physical Geography
2012	Visiting Scholar: European Space Agency, Italy
2008	Project Assist.: Friedrich – Schiller University, Germany, Geoinformatics, Hydrology and Modelling Department

Teaching

2017-2021	UA0021-Spatial Modelling in Landscape Planning (Fall Term, 10-15 Students, 6 ECTS) – PhD level (<i>Cukurova University, Turkiye, Graduate School of Natural Sciences, Department of Remote Sensing and GIS</i>)
2017-2021	PM0005-Watershed Eco-Hydrology (Fall Term, 10-15 Students, 6 ECTS) – MSc level (<i>Cukurova University, Turkiye, Graduate School of Natural Sciences, Department of Landscape Architecture</i>)
2016-2020	PM606-Environmental Modelling in Landscape Planning (Spring Term, 10-15 Students, 6 ECTS)- MSc level (<i>Cukurova University, Turkiye, Graduate School of Natural Sciences, Department of Landscape Architecture</i>)
2013-2020	ENF121 Principles of Spatial Information Systems (Fall, 90-100 Students, 8 ECTS) BA level (<i>Cukurova University, Turkiye, Graduate School of Natural Sciences, Department of Remote Sensing and GIS</i>)
2013-2020	P380-Environmental Sustainability (Spring Term, 30-40 Students, 4 ECTS) – BA level (<i>Cukurova University, Turkiye, Graduate School of Natural Sciences, Department of Landscape Architecture</i>)

2013-2020 P267-Landscape Engineering (Fall, 100-120 Students, 6 ECTS) – BA level
(Cukurova University, Turkiye, Graduate School of Natural Sciences, Department of Landscape Architecture)

Projects (Selected)

2023- ZALF project leader: “SoilWise” (An open access knowledge and GIS-based data repository to safeguard soils). EU HORIZON Framework (HORIZON-MISS-2022-SOIL-01, Project No: 101112838)

2021-2025 Researcher in the Phase2-3: “BonaRes” (Soil as a sustainable resource for the bioeconomy), supported by the BMBF, Germany.
Researcher: Soil health monitoring and information systems FOR sustainable soil management in the Mediterranean region (SOILS4MED). EU PRIMA Call Framework (Call 2022-Section 1 Farming RIA)Engineering and Remote Sensing

2019-2023 PI: Enhancing snow modelling system through remote sensing in catchment scale (E-snow) supported by the BMBF, Germany.

2014-2016 PI: Modelling Hydrological Dynamics of Goksu River Basin using Object-Oriented Modelling. supported by the Turkish Scientific and Research Council (No: 114Y273)

2023-2027 Researcher: Soil health monitoring and information systems FOR sustainable soil management in the Mediterranean region (SOILS4MED). EU PRIMA Call Framework (Call 2022-Section 1 Farming RIA)Engineering and Remote Sensing

2014-2018 Working group member: A European network for a harmonized monitoring of snow for the benefit of climate change scenarios, hydrology and numerical weather prediction. EU-COST Action.

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Institutional website: https://www.zalf.de/de/ueber_uns/mitarbeiter/Seiten/doemnez_c.aspx

Researchgate: <https://www.researchgate.net/profile/Cenk-Donmez>