SUOMEN AKATEMIA

15.12.2021

Projects funded from Key Areas of Green and Digital Transition 2021 Call

Organisations	Applicants	Project title
Geological Survey of Finland University of Oulu	Kozlovskaya, Elena Okkonen, Jarkko Suutala, Jaakko	Urban environment and climate change in the arctic: data-driven intelligence approach to multihazard mitigation
Finnish geospatial research institute (FGI) University of Oulu University of Jyväskylä VTT Technical Research Centre of Finland Ltd	Honkavaara, Eija Hänninen, Tuomo Pölönen, Ilkka Saffre, Fabrice	Unmanned aerial systems based solutions for real-time management of wildfires (FireMan)
University of Helsinki Aalto University	Ruotsalainen, Laura Järvi, Leena Kyrki, Ville Roncoli, Claudio	Artificial Intelligence for Urban Low-Emission Autonomous Traffic (AIForLEssAuto)
Aalto University Finnish Meteorological Institute VTT Technical Research Centre of Finland Ltd	Polojärvi, Arttu Haapala, Jari Heinonen, Jaakko	WindySea - Modelling engine to design, assess environmental impacts, and operate wind farms for ice-covered waters

Aalto University VTT Technical Research Centre of Finland Ltd	Foster, Adam Liljeroth, Peter Lehto, Joni	Microscopy and machine learning in molecular characterization of lignocellulosic materials (MIMIC)
University of Turku Aalto University University of Jyväskylä	Peljo, Pekka Laasonen, Kari Pihko, Petri	Materials Development for Flow Batteries with Help of Explainable AI
University of Helsinki Natural Resources Institute Finnish Meteorological Institute	Kulmala, Markku Lintunen, Anna Hynynen, Jari Lohila, Annalea	Managing Forests for Climate Change Mitigation (ForClimate)
University of Turku Finnish geospatial research institute Aalto University University of Oulu Finnish Environment Institute	Alho, Petteri Kaartinen, Harri Lotsari, Eliisa Marttila, Hannu Ronkanen, Anna-Kaisa	Green and digital transition in river basin management
Aalto University Geological Survey of Finland	Solowski, Wojciech Virtasalo, Joonas	Foundations and digital infrastructure for green offshore energy production close to Finnish coasts: from marine investigations to the numerical estimation of undrained shear strength of the seabed deposit layers under cycling loading
Finnish Environment Institute Finnish Meteorological Institute University of Eastern Finland University ofHelsinki	Forsius, Martin Aurela, Mika Kumpula, Timo Mäkelä, Annikki	Evaluating integrated spatially explicit carbon-neutrality for boreal landscapes and regions
Aalto University VTT Technical Research Centre of Finland Ltd Natural Resources Institute	Österberg, Monika Koivula, Anu Saranpää, Pekka	Enzyme-mediated attachment and detachment of multifunctional and biobased coating aided by digital material design (ENZYFUNC)

Finnish Meteorological Institute VTT Technical Research Centre of Finland Ltd Aalto University Finnish Environment Institute	Lindfors, Anders Kiviluoma, Juha Oliveira, Fabricio Ruokamo, Enni	EasyDR - Enabling demand response through easy to use open source approach
Aalto University University of Vaasa Finnish Environment Institute	Hyysalo, Sampsa Juntunen, Jouni Korhonen-Kurki, Kaisa	Digitally mediated decarbon communities in energy transition (DigiDecarbon)
University of Eastern Finland Finnish geospatial research institute (FGI)	Vastaranta, Mikko Hyyppä, Juha	Capturing structural and functional diversity of trees and tree communities for supporting sustainable use of forests
University of Oulu University of Turku Tampere University Aalto University	Röning, Juha Westerlund, Tomi Edelman, Harry Oksanen, Jani	Beyond carbon-neutral drone aerial deliveries with autonomous micro-airports in sustainable metropolitan areas
VTT Technical Research Centre of Finland Ltd Aalto University Natural Resources Institute	Mõttus, Matti Rautiainen, Miina Laaksonen, Jorma Myllymäki, Mari	Artificial intelligence, spatial statistics and Earth observation for digital twinning of forest diversity
Aalto University	Santasalo-Aarnio, Annukka Rinke, Patrick	AI-guided CO2 Conversion