Dr. Ralf Wieland

Position: Head of WG Simulation Methods



Academic education and scientific degrees

1985 – 1988	DrIng. Expert systems for process control, University of Technology Leipzig
1981 – 1985	DiplIng. Technical cybernetics and automation, University of Technology Leipzig

Professional experience

since 2018	Head of WG "Simulation Methods" at the Research Data Platform, ZALF
2002 – 2018	Senior Researcher at ZALF
1994 – 2002	Scientific employee at ZALF in different projects
1990 – 1994	Scientific senior assistant, Hochschule für Technik and Wirtschaft Berlin (HTW)
1988 – 1990	Scientific emplyee Funkwerk Köpenick ZFTN

Research Profile

Background

- development of, simulation methods including cluster computing
- Fuzzy modeling, machine learning
- Combination of dynamic modeling and artificial intelligence

Research Activities

- Landscape simulation, habitat modeling
- CuliFo1, CuliFo2 (CuliFo3 in preparation)
- Use of deep learning for structural analysis of computer tomography images of soil samples
- Cooling effects in landscapes (DAKIS-Projects)

Functions and memberships

Since 2018 Member of the Advisory Board of the Section Simulation in Environment

and

Geoscience of the German Informatics Society, Workshop of this group:

Nov. 2022 at ZALF

Other

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