香山生态论坛
XIANGSHAN-ECOLOGY FORUM · CHINA

Serial Reports No. 2023-11

Modeling of soil multifunctionality using machine learning and remote sensing

Speaker: Prof. Dr. Thomas Scholten

Eberhard Karls University Tübingen

Time： 14:00 Oct 10, 2023

Venue： Conference Room E202, Mudan Building

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Brief Introduction of Speaker

Thomas Scholten is Professor of Soil Science and Geomorphology. His areas of expertise and research activities are mainly concerned with soil science, environment, geomorphology, geoecology, soil erosion and machine learning in soil science. Fieldwork is based in Europe, Africa and Asia with main research projects in South Africa, Swaziland, Sudan, Israel, China, Nepal, Switzerland and Germany. Professor Scholten has published widely in soil science, environmental science and geoscience, having authored 9 books, 228 refereed papers and 378 conference papers. He has received research grants from over 15 institutions, principally the European Union (EU), the German Research Foundation (DFG) and the German Federal Ministry of Education and Research (BMBF). He is a referee for a wide range of international journals, acted as guest editor for *Geoderma*, *Catena*, *Soil Systems*, *Agronomy*, *Frontiers in Earth Science* and currently serves on the editorial boards of several journals including *Journal of Plant Nutrition* and *Soil Science*. Since 2004, Thomas Scholten is council member of the European Society for Soil Conservation (ESSC). Since 2006, he is the director of the Institute of Geography at Tübingen University. From 2012-2015, he was President of the German Soil Science Society (DBG). In 2016, he was elected as member of German National Academy of Science and Engineering (acatech). Since 2017 he is co-speaker of the Collaborative Research Center (SFB 1070) `ResourceCultures´ of the German Research Foundation (DFG) and since 2019 principle investigator in the Cluster of Excellence 'Machine Learning - New Perspectives for Science' at Tübingen University. Additionally, he is well involved in different expert groups and reviewer for several scientific donor organizations.

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