Contribution ID: **54** Type: **Sectional reports**

An intelligent environmental monitoring platform

Monday, 5 July 2021 15:45 (15 minutes)

Air pollution has a significant impact on human and environmental health. The aim of the UNECE International Cooperative Program (ICP) Vegetation in the framework of the United Nations Convention on Long-Range Transboundary Air Pollution (CLRTAP) is to identify the main polluted areas of Europe, produce regional maps and further develop the understanding of the long-range transboundary pollution. The program is realized in 43 countries of Europe and Asia. Mosses are collected at thousands of sites. The data management system (DMS) development for the ICP Vegetation program was initiated in 2016 in the Laboratory of Information technologies. The DMS evaluates and now offers good options in simplification and automation of the environmental monitoring process. We are using some powerful technologies to provide a new level of services for ICP Vegetation participants. The platform has some interesting analytical, classification, and prediction abilities. The current architecture, workflow, and principles of data processing and analysis will be presented.

Summary

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Session Classification: Distributed computing applications

Track Classification: 4. Distributed computing applications