

HyARC Seminar (HyARC Seminar#173)

Date: June 18 (Wednesday) 13:30-

Room: Seminar room (#606) of Research Institutes Building.

Speaker: Dr. Kazuki Nanko (Department of Meteorological Environment,
Forestry and Forest Products Research Institute)

Title: Which predictor variables determine the objective variable? –
Introduction of a recent multifactorial analysis, boosted regression
trees (BRT) –

Abstract: Natural phenomenon is complex. Scientists do data monitoring, physical interpretation, and model development to clarify the dynamics of the objective variable through various ways of multiple analysis. However, it is difficult to determine which contributing factors are, and how the factors contribute to the objective variable. A recent method, boosted regression trees (BRT), has got attention for ecological modeling since 2007. BRT combines machine learning methods and regression analysis, not related to linear modeling. I introduce characteristics and advantage of BRT and two examples of the application of BRT for my previous studies, spatial distribution of soil organic carbon stocks in Japan and throughfall raindrop size in USA.

(given in English)