

## New Ionospheric CT Using a Multi-layer Neural Network - Preliminary Results -

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Recently, Ma et al.(2000) have proposed a new method of CT that can be used for two-dimensional image reconstruction by making use of a multi-layer neural network. Because this method is basically applicable to the situation for small amount of projection data, the ionospheric CT is thought to be the very suitable application object. We present in this paper several preliminary results derived so far from the simulation study with the new method, in which we reconstruct the ionospheric electron density profile from TEC observed by using NNSS receivers network in northern Japan.