KOSHIHARA LAB.

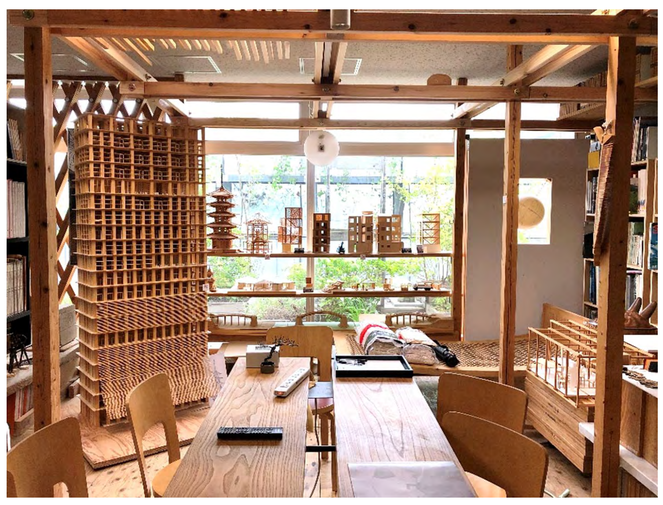
Symbiosis of forest and city
Timberize City as recycling resource

Department of Humans and Social Systems

Wood Engineering
Department of Architecture, Graduate School of Engineering

http://wood.iis.u-tokyo.ac.jp

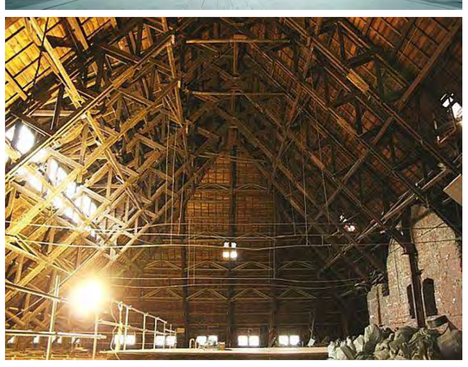
In this laboratory, we are investigating and researching construction methods mainly for wood. We are conducting research on a wide range of subjects, from traditional and modern wooden architecture registered as cultural properties to modern wooden architecture and even brick architecture. In addition, students are taking the initiative in various projects, such as producing things using wood without being bound by the framework of architecture.



Recent research examples

☑Roof truss joint experiment at Tokyo Station (2022)

For the roof truss of Tokyo Station, which has been in continuous use for over 60 years after the war-damaged reconstruction, we conducted a loading experiment at the joints and verified changes in strength.



☑Strength measurement of Meiji Jingu old torii (2023)

We collected specimens from the pillar of the old torii gate of the Meiji Jingu Shrine and measured their strength.

☑ Full-scale experiment of a timber frame structure using GIR and LSB joints (2023)

Non-residential buildings made of wood are gradually building,due to the need for environmentally friendly construction. Wooden joints are weaker than RC joints, so it is important to strengthen the joints. In this study, we verified the strength performance of joints in a full-size two-layer wood frame using GIR using adhesive and lag screw bolt (LSB) joints.