S. Kono Lab

Resiliency and safety of building structures

Urban Disaster Prevention Research Core, FIRST

http://www.udprc.first.iir.titech.ac.jp/kono/

- Performance design of reinforced concrete structures
- Development of advanced seismic concrete structures

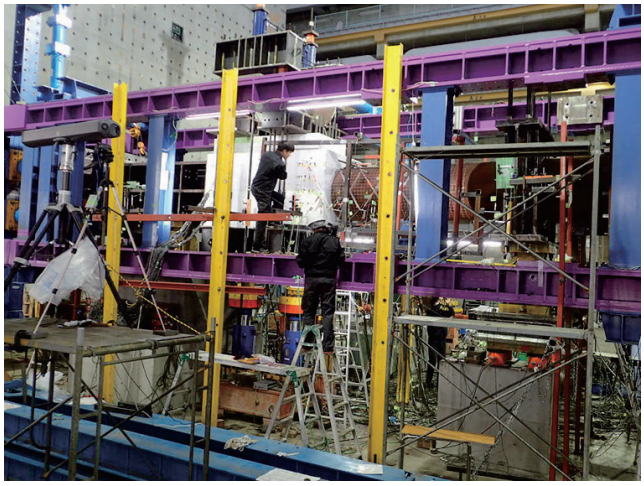
The ultimate goal of our research group is to contribute to the society by making structures resilient against various disturbances such as earthquakes, tsunamis, and wind. Research topics cover seismic assessment, seismic retrofit, performance based design, damage controlling system using reinforced, precast and prestressed concrete structures. We look forward to working with people interested in concrete structures.

Resilience of five story buildings tested at Building Research Institute (Tsukuba)

・Resiliency of reinforced concrete residential buildings were studied

Seismic performance of RC beams with high strength reinforcement

・Seismic performance of reinforced concrete beams with 1300MPa class shear reinforcement was studied.
・Bond performance of longitudinal reinforcement was compared to code prediction.



Seismic performance of pile and pile caps under large scale earthquake

・ Large scale pile–pile cap–foundation beam–column assemblages were loaded to see their ultimate condition under severe earthquakes.