



Joint Usage/ Research Center, Wind Engineering Research Center, Tokyo Polytechnic University

## **Strong Wind Disaster Prevention/Wind Resistant Structures Research Meeting on Wind Resistance of Structures**

A research meeting related to the research topic in the field of wind disaster mitigation / wind resistant design of structures, which was adopted as a joint use/joint research theme this fiscal year, will be held online (Zoom) on Thursday, February 20, 2025.

At this research meeting, we will understand the aerodynamic characteristics of high-rise buildings with several corners, field measurement of buildings by GNSS, and the latest research results and issues regarding tornadoes, and discuss issues that need to be addressed in the future.

We would like to invite you to participate.

**Date: 16:00-18:00(JST), 20<sup>th</sup>, February, 2025**

**Registration fee: Free**

**Venue: Online (zoom)**

<https://us06web.zoom.us/j/86468044047?pwd=XWSNmBUrb4i3bWaPAp7rrUgesFXU8G.1>

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### PROGRAM (tentative)

JST Time (Speaker's local time)	Title / Presenter / Affiliation
16:00 - 16:05	Opening address
16:05 - 16:30 (14:05 - 14:30)	Unsteady aerodynamic characteristics affecting tall buildings with varying corner shapes and side-to-side ratios Andika M. G. (BRIN, Aviation Technology Research Center)
16:30 - 16:55 (13:00 - 13:25)	Determination of tornado induced wind loads on a principal building in presence of group of adjoining structures Sabareesh G. R. (BITS-Pilani Hyderabad University,India)
16:55 - 17:20 (13:25 - 13:50)	AI/ML based Tornado Speed Determination and Prediction from the Wind-borne Debris Captured in the Tornado, using Video Processing Techniques Radhika S. (BITS-Pilani Hyderabad University,India)
17:20 - 17:45 (13:50 - 14:15)	Impact of Tornado vortex induced aerodynamic loads on structural projections in low rise buildings Goyal R (National Institute of Construction Management and Research)

17:45 – 18:10	Displacement measurement of building by single point positioning Tabuchi G (Japan Aerospace Exploration Agency)
18:10 - 18:35 (10:10 – 10:35)	Aeroelastic effects on idealized super-slender tall buildings characterized by square sections Pagnini L.C., Piccardo G. (University of Genoa)
18:35 - 18:40	Group photo and closing

Presentation time include 5min discussion