

# SeokJun JOO

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## EDUCATION

**University of Western Ontario**, Ontario, CANADA

Visiting Scholar in 2010~2011

**Seoul National University**, Seoul, KOREA

PhD in Architectural Engineering, February 2000.

- Thesis: "Experimental study on robust control of seismic responses for building structures"

**Seoul National University**, Seoul, KOREA

MSc in Architectural Engineering, February 1995.

- Thesis: "A Study on the Control of Vibration of Plate Using Tuned Mass Dampers"

**Seoul National University**, Seoul, KOREA

B.S. in Architectural Engineering, February 1991.

## RESEARCH AND TEACHING INTERESTS

Dr. S.J. Joo is a specialist in the field of wind-induced vibration control system and wind tunnel test. He obtained his Doctor's degree in 2000, with study on Robust Control of High-rise Building. As one the leading Researchers at Wind Engineering & Vibration Control Department at Hyundai Institute, he played a vital role in development of the first Hybrid Mass Damper on the control tower of Incheon International Airport in Korea. He is one of the foundering members of TESolution, and has conducted over 40 vibration control projects and 100 wind tunnel tests. He has played a major role in obtaining number of patents such as Vibration Control Device of Construction Structure and Vibration Control and Elasto-plastic Vibration Control Device.

## **PUBLICATION**

“Development and Performance Evaluation of Tuned Mass Damper for Vibration Reduction of 3MW Wind Turbine Tower”, Journal of Korean Society of Hazard Mitigation , 2016

“Performance Test of Tuned Mass Damper Using Laminated Rubber Bearing”, Journal of the Architectural Institute of Korea, 2011

“Application of Tuned Mass Damper for the Reduction of Global Vertical Vibration of Building due to Rhythmic Group Activities”, Journal of the Wind Engineering Institute of Korea, 2014

“Application of Pendulum Type Tuned Mass Damper for the Reduction of Wind-induced Vibration of Namsan Cable Car”, Journal of the Architectural Institute of Korea, 2010

“Identification of Dynamic Properties of Secondary Mass Dampers based on in-situ Experiments”, Journal of the Wind Engineering Institute of Korea, 2010

## **PRESENTATIONS**

“LAB test of TMD for the Reduction of Wind-Induced Vibration of Ferris Wheel”, Proc. of WEIK Symposium, 2017

“System Identification of 5story Steel Structure using Active Mass Damper”, Proc. of WEIK Symposium, 2017

“A Study of Wind Response Reduction of Light-weight Stack Structure”, Proc. of WEIK Symposium, 2017

“Characteristics of Wind Pressure Coefficients on Arched Pipe Greenhouse with Various Roof Slope”, Proc. of WEIK Symposium, 2016

“Structural Stability Enhancement of a high-rise building with a Tuned Mass Damper”, Proc. of WEIK Symposium, 2016