



Biographical Data

Institute of Engineering,
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Assist. Prof. Dr. Mongkol Jiravacharadet

Education and Competence

1990 B.S. (Civil Engineering) Chulalongkorn University, THAILAND
1993 M.Eng. (Civil Engineering) University of Tokyo, JAPAN
1996 Ph.D. (Civil Engineering) University of Tokyo, JAPAN

Present Position

Assistant Professor, School of Civil Engineering,
Suranaree University of Technology

Work Experience

Dec.1996 – Present	Lecturer, School of Civil Engineering, Suranaree University of Technology
Feb.1999	Assistant Professor
Dec.1999 – Aug.2001	Assistant Rector in Buildings & Grounds
Mar.2002 – Sep.2004	Acting Head of School of Civil Engineering
Oct.2004 – Mar.2007	Head of School of Civil Engineering

Recognitions and Prestige

1990	First Class Honor (Gold Medal) for B.S. Degree
1991 – 1995	Monbucha Scholarship from Japanese Government for M.Eng and Ph.D. Degrees

Academic Works

(1) Research Publications

1. J. Mongkol, and T. Nomura, "Application of an Eddy Viscosity Model to Finite Element Analysis of Turbulent Flow around a Circular Cylinder," Annual Conference of Japan Society of Civil Engineering(JSCE) 1993.
2. J. Mongkol, and T. Nomura, "Application of an Eddy Viscosity Model to Finite Element Analysis of Turbulent Flow around a Circular Cylinder," WCCM III The Third World Congress of Computational Mechanics International Association for Computational Mechanics, August 1-5, 1994, Chiba, Japan, pp. I-188, 189.



3. **J. Mongkol**, B. Bhartia, and Y. Fujino, "Optimal Saturation Control of SDOF Structure," Proceeding of the 17th Symposium on Information System, Architecture Institute of Japan, 1994, pp. 433-438.
4. **J. Mongkol**, B. Bhartia, and Y. Fujino, "Optimal Linear-Saturation Control of Structure by Modal Decomposition," EASEC-5 BUILDING FOR 21ST CENTURY, Proceedings of the fifth East Asia-Pacific Conference of structural Engineering and Construction, July 25-27, 1995, Gold Coast, Queensland, Australia, pp. 1455-1460.
5. **J. Mongkol**, B. Bhartia, and Y. Fujino, "Optimal Linear-Saturation Control of MDOF Structure by Modal Approach," Annual Conference of Japan Society of Civil Engineering (JSCE) 1995.
6. **J. Mongkol**, B. Bhartia, and Y. Fujino, "On Linear-Saturation (LS) Control of Buildings," Earthquake Engineering & Structural Dynamics Journal, Vol. 25, 1353-1371, 1996.
7. **Jiravacharadet, M.**, "Noise Control in Building," Civil Engineering Magazine, Engineering Institute of Thailand, 10, 3, July-September 1998.
8. **Jiravacharadet, M.**, "Development of Light-weight Aggregate Concrete from Baked Silty Sand," Research Report No. SUT4-410-41-9-24, Suranaree University of Technology, Thailand, 1999.
9. **Jiravacharadet, M.** "Mechanical Properties of Light-weight Aggregate Concrete from Crushed Masonry," Suranaree J. Sci. Technol 6:91-96, 1999.
10. **Jiravacharadet, M.** "Optimal Height for Steel Roof Truss Design," Suranaree J. Sci. Technol 7:149-153, 2000.
11. **Jiravacharadet, M.**, "Development of Structural Analysis and Design Website," Research Report No. SUT7-712-43-12-44, Suranaree University of Technology, Thailand, 2001.
12. **Jiravacharadet, M.**, "Design to Prevent Floor Vibrations in Steel Structures," Thailand Engineering Journal, Vol. 3, 86-89, 2002.



13. **Jiravacharadet, M.**, "Bone-shaped Short Fiber Composite," Thailand Engineering Journal, Vol. 4, 108-109, 2002.
14. **Jiravacharadet, M.**, "Structural Damage Identification Using Eigensystem Realization Algorithm," Proceedings of the Eight National Convention on Civil Engineering, Khon Kaen, Thailand, 2002.
15. **Jiravacharadet, M.**, "Wind Force Acting on Sign Structures According to ASCE Standard 7-98," Civil Engineering Magazine, Engineering Institute of Thailand, Vol. 1, Jan.-Feb., 2003.
16. Phornpilai KITIRATTRAKARN and **Mongkol JIRAVACHARADET**, "Vibration of Precast-Prestressed Slab from Human Activities," Engineering Innovative for Sustainable Resource Management, 40th Academic Seminar, Faculty of Engineering, Khon Khaen University, 23-25 Jan. 2004.
17. Atiwatch VIMUTHASUUNGVIRIYA and **Mongkol JIRAVACHARADET**, "Wind Speed for Structural Analysis in Thailand," Engineering Innovative for Sustainable Resource Management, 40th Academic Seminar, Faculty of Engineering, Khon Khaen University, 23-25 Jan. 2004.
18. Atiwatch VIMUTHASUUNGVIRIYA and **Mongkol JIRAVACHARADET**, "Wind Speed for Structural Analysis and Design in Thailand," 9th National Conference in Civil Engineering, Petchburi, 19-23 May 2004.
19. Phornpilai KITIRATTRAKARN and **Mongkol JIRAVACHARADET**, "Vibration of Precast-Prestressed Slab from Human Activities," 9th National Conference in Civil Engineering, Petchburi, 19-23 May 2004.
20. Vacharapol BOACHAREON and **Mongkol JIRAVACHARADET**, "Effect of Soil-Structure Interaction for High-Rise Building Design in Bangkok," 11th National Conference in Civil Engineering, Phuket, 20-22 April 2006.
21. Phornpilai KITIRATTRAKARN and **Mongkol JIRAVACHARADET**, "VIBRATION ANALYSIS OF PRECAST-PRESTRESSED CONCRETE SLABS UNDER AEROBIC LOADS," Proceedings of the Tenth East Asia-Pacific Conference on Structural Engineering & Construction (EASEC-10), August 3-5, 2006, Bangkok, Thailand



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22. Watcharapon BAOJAROEN and Mongkol JIRAVACHARADET, "NON-LINEAR SOIL-STRUCTURE INTERACTION ANALYSIS OF BUILDINGS SUBJECTED TO EARTHQUAKE LOADING IN BANGKOK," Proceedings of the Tenth East Asia-Pacific Conference on Structural Engineering & Construction (EASEC-10), August 3-5, 2006, Bangkok, Thailand

(2) Published Textbooks

1. Mechanics of Materials
2. Structural Steel Design
3. Reinforced Concrete Design