

# 学术报告会

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地点: 电院群楼2-410会议室

## Vibration Control Systems with Information Constraints

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### Abstract:

The objective of this talk is to review some recent results on vibration control of structural systems with a focus on advanced controller design strategy developments with information constraints. In particular, seismic protection of adjacent buildings will be presented as a case study and some recent results on control developments for this research will be addressed accordingly. Finally, some concluding remarks are provided.

### Biography:

**Hamid Reza Karimi** was born in 1976. He received the B.Sc. (First Hons.) degree in power systems from the Sharif University of Technology, Tehran, Iran, in 1998, and the M.Sc. and Ph.D. (First Hons.) degrees in control systems engineering from the University of Tehran, Tehran, in 2001 and 2005, respectively. He is currently a professor of Applied Mechanics with the Department of Mechanical Engineering, Politecnico di Milano, Milan, Italy. His current research interests include control systems and mechatronics with applications to automotive control systems and wind energy.

**Prof. Karimi** is currently the Editor-in-Chief of the Journal of Machines (MDPI Switzerland), Editor-in-Chief of the Journal of Designs (MDPI Switzerland) and an Editorial Board Member for some international journals, such as the IEEE Transactions on Industrial Electronics, the IEEE Transactions on Circuit and Systems —I: Regular Papers, the IEEE/ASME Transactions on Mechatronics, IEEE Transactions on Systems, Man, and Cybernetics: Systems, Information Sciences, the IEEE ACCESS, IFAC-Mechatronics, Neurocomputing, the Asian Journal of Control, the Journal of The Franklin Institute, the International Journal of Control, Automation, and Systems, the International Journal of Fuzzy Systems, the International Journal of e-Navigation and Maritime Economy, and the Journal of Systems and Control Engineering. He is also a member of the IEEE Technical Committee on Systems with Uncertainty, the Committee on Industrial Cyber-Physical Systems, the IFAC Technical Committee on Mechatronic Systems, the Committee on Robust Control, and the Committee on Automotive Control. Prof. Karimi is a Senior Member of IEEE and awarded as the 2016 Web of Science Highly Cited Researcher in Engineering.