



PhD Course: Assessment and Retrofitting of existing buildings
 系列讲座/博士生课程：既有建筑的检测和加固
Prof. Silvia Santini

Speaker Biography

Prof. Silvia Santini is Associate Professor at University of Roma Tre, Italy. She achieved her PhD at Sapienza University in Rome. Postdoctoral Research Fellow at the University of Berkeley, California. Author of about eighty publications, she has carried out theoretical and experimental research aimed mainly at seismic safety of buildings and infrastructures existing in reinforced concrete, including the evaluation of degradation and interventions of reinforcement and seismic adjustment with innovative materials (FRP).

Summary of the Contents

Assessment of the seismic capacity of an existing structure. The experimental in-situ testing procedure for evaluation of existing materials and structures and the treatment of the uncertainty. Resources (materials, methods, techniques) available for intervention. Design methods for strengthening intervention. Procedures for intervention evaluation and quality control. The Course aims to provide tools for reliability evaluation and rehabilitation of existing structures according to the most recent Codes, and the main structural techniques used in a wider European and Asian countries perspective.

Course Schedule (First Period from 31th May to 12th June)

31 st May	14:00-17:30	General Introduction
1 st June	14:00-17:30	Assessment: Procedure for evaluation of existing materials and structures. The experimental in-situ testing (DT and NDT). The treatment of uncertainty.
5 th June	14:00-17:30	Intervention: resources (materials, methods, techniques).
7 th June	14:00-17:30	Reinforced concrete existing buildings
11 th June	8:20-12:00	Masonry existing buildings.
12 th June	8:20-12:00	Timber existing buildings

Location: Meeting Room #528 on the 5th floor of the Faculty of Civil Engineering

Organized by: College of Civil Engineering with the cooperation of the Sino-Italian Center

