

INTERNATIONAL WORKSHOP ON CYCLIC BEHAVIOR OF CORRODED REBARS IN RC STRUCTURES



10th May 2018 - Aula Morandi, Department of Architecture,
Roma Tre University, Largo G.B. Marzi 10, Rome, Italy



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Topics:

- Cyclic behavior of steel rebar including buckling and corrosion
- Analytical models to describe the cyclic behavior of corroded rebars
- Implementation of the cyclic models for rebars in computer programs
- Cyclic behavior of RC members and structure with corroded rebars

Program:

- 9:30 Welcome / Intro (Nuti C., Lavorato D.)
- 10:00 - 10:45 Kashani M. “Corrosion induced mechanical-geometrical degradation of reinforcing bars: experimental testing and computational modelling”
- 11:00 - 11:45 Kashani M. “Modelling nonlinear behavior of RC bridge piers Including the effects of inelastic buckling, low-cycle fatigue and corrosion damage”
- **Coffee break**
- 12:00 - 12:45 Lavorato D. “Modelling of cyclic behavior of rebar including inelastic buckling and corrosion”
- 13:00 - 13:45 Lavorato D. “A numerical model for the cyclic behavior of rebar including inelastic buckling and corrosion: implementation in FEM programs”
- **Lunch break**
- 15:00 - 15:45 Vecchi F. “PARC_CL 2.0 crack model for NLFEA of RC structures under static, cyclic and dynamic loadings”
- 16:00 - 16:45 Belletti B. “Application of PARC_CL 2.0 crack model for the response prediction of RC structures”
- **Coffee break**
- 17:00 - 18:00 Final remarks and discussion
- 18:00 Closing session (Nuti C., Lavorato D.)

Free participation

Organizing Committee: **Dr. Davide Lavorato (Chair)**, Prof. Camillo Nuti, Prof. Silvia Santini, Prof. Bruno Briseghella, Prof. Giuseppe C. Marano, Prof. Fabrizio Paolacci, Dr. Alessandro V. Bergami, Dr. Gabriele Fiorentino, Dr. Alessandra Fiore, Dr. Cristoforo Demartino, Dr. Giuseppe Quaranta.

This workshop is part of the didactic activity in PhD course «Architettura: innovazione e patrimonio» (Roma Tre University); Sino - Italian Center - FUZHOU University (China) - ROMA TRE University (Italy)