

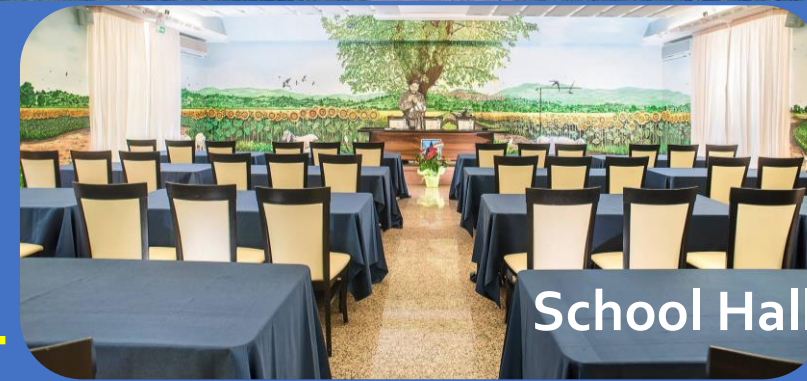


Hotel Domus Pacis Assisi
Piazza Porziuncola, 1L
Santa Maria degli Angeli, Assisi (Italy)



School venue

in the hystorical town of Assisi



board & lodging...

School Hall

International Advanced School Soil-Structure Interaction in OpenSees, SSI-OS strategies, applications and perspectives

9-11 September 2024

Motivation and goal

OpenSees is an evolving numerical framework for advanced assessment of civil engineering structures against natural hazards, in which dominant soil-structure interaction features can be simulated through multiple levels of complexity.

We will explore soil-structure modelling in OpenSees, focussing on critical issues of the implementation. After a short introduction to OpenSees, the development of nonlinear dynamic analyses is the main goal of this path. New-generation approaches for assessing the dynamic performance of soil-structure systems will be described.

With respect to 2023 SSI-OS, in the present edition the discussion of the numerical strategies to soil-structure interaction will be extended to the use of tools for regional analysis and artificial intelligence-based assessment. Several example applications will be provided, supported by hands-on experience and working groups.

Organising Committee



Davide Noè Gorini Pedro Arduino Guido Camata Massimo Petracca Domenico Gallese

Speakers

Dr. Davide Noè Gorini
Prof. Pedro Arduino
Dr. Massimo Petracca
Prof. Frank McKenna

Dr. Silvia Mazzoni
Prof. José Abell
Eng. Giuseppe Lombardi
Dr. Yu-Wei Hwang

Dr. Domenico Gallese
Dr. Tony Fierro
Dr. Faisal Nissar Malik

SIMSG ISSMGE **TC 203 Earthquake**
TC 309 Machine Learning
TC 209 Offshore Geotechnics
TC 204 Underground Construction



SEPTEMBER

9

Monday

Session 1 Basics of modelling soil-structure interaction in OpenSees

P. Arduino, D.N. Gorini, D. Gallese, M. Petracca

Session 2 Coupled modelling: from theory to practice OpenSees

D.N. Gorini, J. Abell, D. Gallese, Y.W. Hwang

Interacting lecture Implementing the static and seismic analysis of a coupled soil-bridge system - D.N. Gorini

SEPTEMBER

11

Wednesday

Session 5 Developing OpenSees and advanced applications

T. Fierro, P. Arduino, M. Petracca, F. McKenna

Round table Applications, strategies and new trends

SEPTEMBER

10

Tuesday

Session 3 Parallel computing: general settings and optimisation

D.N. Gorini, J. Abell, S. Mazzoni

Working groups Advanced features of coupled modelling

P. Arduino, G. Lombardi, J. Abell

Session 4 Time-domain decoupled modelling: from theory to practice

P. Arduino, D.N. Gorini, F.N. Malik

Interacting lecture Application of new-generation practice-oriented approaches to a soil-bridge system

P. Arduino, D.N. Gorini

Registration

Registration to the School is mandatory through this [form](#). Registrations will be accepted subject to availability (maximum number of attendees = 100).

The payment of the fees can be made after the acceptance of registration and, however, within the period March 15-July 30.

Stay tuned!

More information about fees, board & lodging at Hotel Domus Pacis will be provided soon.

Sign in at this [link](#) to set up the alerts.