DYNAMIC INTERACTION OF SOIL AND STRUCTURE (DISS, www.diss-co.it)

This website is dedicated to the memory of Prof. Yutaka Nakamura, who sadly passed away in 2025.

Through his work as President of SDR in Tokyo and as an innovative researcher, together with Jun Saita and Tsumotu Sato:

a) he promoted the six International Workshops on Dynamic Interaction between Soil and Structure (DISS) and participated in each edition;

b) he provided the long-term modal observations at pillar #40 that contributed to the development of the Colosseum dynamic-baseline concept;

c) he performed H/V measurements at 87 points on the ground, inside and around the monument;

d) he observed the train-induced vibrations recorded during the 30 October 2016 Norcia earthquake sequence which were used in the two-convoy analysis presented in WCEE 2024 in Milan.

Finally, excellent experimental identifications for the first 12 modes of the North Wall, obtained by ENEA in 2017, are now also available. These identifications allow for the dynamic characterization of the model, enabling the definition of reliable methodologies for a complete SHM procedure that is accurate to within a few percent between experimental and numerical results.

Without a pre-earthquake reliable baseline, a new model could be built after the event, but it would not be possible to know with sufficient reliability: e) whether a frequency was already the same as before the earthquake; f) which cracks were present before; g) which elastic moduli were already reduced; d) how much temperature and humidity had an impact; h) whether an anomaly stemmed from the soil, foundations, or elevation; i) which area had undergone the change.

We also fondly recall our post-conference tours of Rome, including some locations associated with the movie *Roman Holiday*, which he enthusiastically recognized.

We hope that the work initiated by Nakamura can continue through future collaborations with SDR.

Sincerely, from all the participants of six Workshops DISS.

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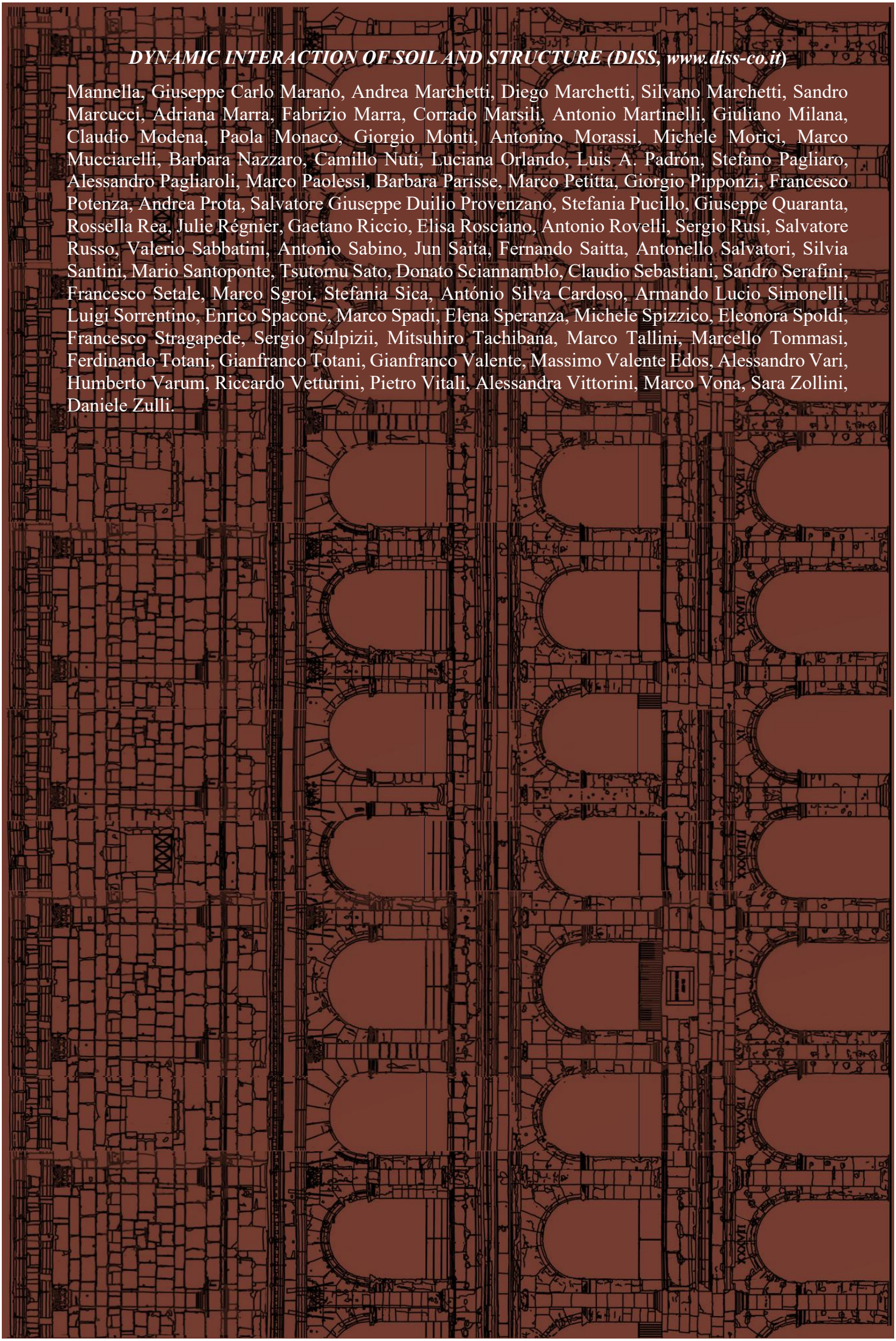
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