

July 17, 2024, 10:00am-1:00pm  
July 18, 2024, 4:00pm-7:00pm  
July 19, 2024, 10:00am-1:00pm

**Prof. Annamaria Pau,**  
**Prof. Patrizia Trovalusci**

*Department of Structural and Geotechnical Engineering,  
Sapienza University of Rome*

## **Ultrasonic bulk and guided wave propagation in classical and non-classical continua**

Being able to handle wave propagation is essential to the understanding of nondestructive evaluation techniques, which enable location and measurement of defects in structures, evaluation of constitutive material constants, and identification of the state of stress. This short course covers selected problems of wave propagation in structures, that is, waves in strings, bulk waves in 3D solids, guided waves, acoustoelasticity, and their application to the solution of materials characterization and image reconstruction problems. Focus will be also on non-local continua with internal lengths and dispersion properties in wave propagation.

Program:

[https://phd.uniroma1.it/web/course---ultrasonic-bulk-and-guided-wave-propagation-in-classical-and-non-classical-continua\\_ns6316EN\\_EN.aspx](https://phd.uniroma1.it/web/course---ultrasonic-bulk-and-guided-wave-propagation-in-classical-and-non-classical-continua_ns6316EN_EN.aspx)

Registration form:

<https://forms.gle/JksDZHCMwQsyX2zCA>