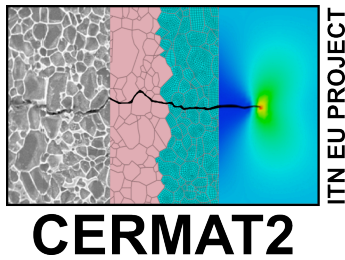




UNIVERSITÀ DEGLI STUDI
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AVVISO DI SEMINARIO

Si comunica che **martedì 16 maggio alle ore 10.00**
si terrà presso l'aula **2D** (via Mesiano 77) il seguente corso

Modelling of deformation and dynamic response of abdominal aneurysm sealing

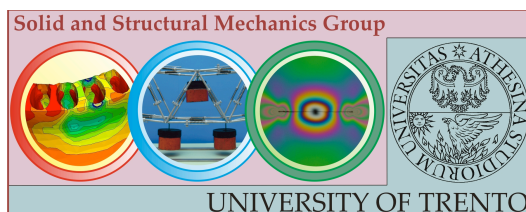
Dr. Luca Argani

Department of Mathematical Sciences, University of Liverpool, UK

Endovascular sealing is a new technique for the repair of abdominal aortic aneurysms. Commercially available in Europe since 2013, it takes a revolutionary approach to aneurysm repair through minimally invasive techniques. Although aneurysm sealing may be thought as more stable than conventional endovascular stent graft repairs, post-implantation movement of the endoprosthesis has been described, potentially leading to late complications. This seminar is focussed on a model, which explains the nature of forces, in static and dynamic regimes, acting on sealed abdominal aortic aneurysms, with references to real case studies. It is shown that elastic deformation of the aorta and of the endoprosthesis induced by static forces and vibrations during daily activities can potentially promote undesired movements of the endovascular sealing structure.

Tutti gli interessati sono invitati a partecipare.

Il seminario è organizzato dal gruppo di Scienza delle Costruzioni
(D. Bigoni, L. Deseri, N. Pugno, M. Gei, F. Dal Corso, A. Piccolroaz, R. Springhetti)



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