



UNIVERSITÀ DEGLI STUDI  
DI TRENTO

Dipartimento di Ingegneria Civile,  
Ambientale e Meccanica

## AVVISO DI SEMINARIO

Si comunica che **venerdì 24 novembre 2017 a partire dalle ore 11.00**  
si terrà presso l'aula **R2** (via Mesiano 77) il seguente seminario

### **Machine tools performances and environmental sustainability**

**Paolo Albertelli**

*Politecnico di Milano*

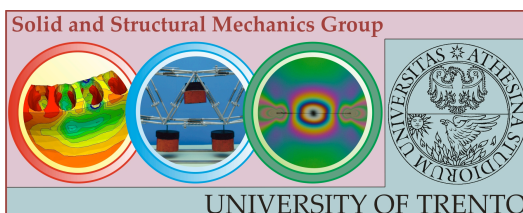
Machine tool productivity and performance are generally limited by the occurrence of vibrations that affect the surface quality of the processed workpieces, the tool and the machine components integrity.

The vibrations growth is typically due to regenerative chatter instability. Although this kind of dynamic instability is well known since the late seventies, its full comprehension and the development of reliable and robust solutions to the connected machining issues still represent challenges both for the academia and for industries.

Since in the last few years sustainability of the manufacturing processes has been gaining an increasing attention, productivity is no longer the sole targeted machine tool key performance. Indeed, the necessity of reducing the energy consumption and the environmental impact of the machines have been stimulating the research community. For some high-value applications (i.e. aerospace and biomedical sectors) cryogenic cooling in machining is becoming increasingly interesting.

Tutti gli interessati sono invitati a partecipare.

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



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