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Computational Mechanics & Advanced Materials Group - DICAr
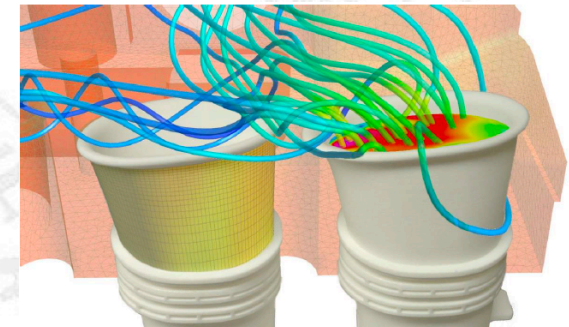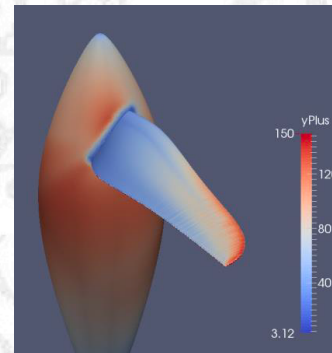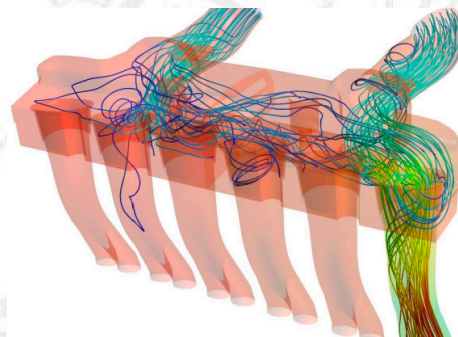
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SEMINAR

Fast Radial Basis Functions for Engineering Applications

Radial Basis Functions (RBF) are a mathematical tool mature enough for consistently handling engineering applications. The aim of this seminar is to put the interested attendees in a better position with respect to RBF providing them with a clear vision of their potential toward engineering applications.

The foundation of RBF is firstly introduced, then a collection of practical applications of RBF in several engineering sectors is reviewed (mesh morphing of CAE models, multi-physics mapping, response surface interpolation, mapping of magnetic loads, surface sculpting using adjoint sensitivity data, and many others).

Prof. Marco Evangelos Biancolini
Dipartimento di Ingegneria dell'Impresa
Università di Roma Tor Vergata

February 7th, 4:30pm
DICAr MS1 Meeting Room
Via Ferrata, 3 – Pavia