ANSA: ONE OF THE CAE ANALYSTS' BEST FRIENDS

Edoardo Ferrante, Dr. Emiliano Costa, Sergio Macchiavello, Alberto Rossi, Maurizio Iannolo, Alessandro Bozzolo, Andrea Trevisi
RINA Consulting

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ABSTRACT
The modern industry is characterised by an elevated level of competitiveness and, consequently, it needs to address high level technological demands in terms of performance and reliability of produced systems and their components. In this framework, CAE designers and analysts are constantly urged to invest in innovative technologies and procedures to enable manufacturers to reduce product development costs and delivery times. Given such a challenging working context an engineering consulting company needs to face daily, the adoption of common practices and tools to efficiently manage the pre-processing stage is of paramount importance and constitutes a strategical and economical advantage. To this end the "Industrial Design & CAE" team of RINA Consulting has been making an extensive use of ANSA pre-processing for many years to build numerical models (both FEM and CFD) designed to handle engineering applications in a wide range of industrial sectors including aerospace, defence, manufacturing, energy, transportation and civil infrastructures. The presented work shows that such a tool is a powerful means to support our team in solving multi-physics and cross-sectorial engineering problems in an effective and time-saving manner.