

## A Review on Integration techniques of CAD-CAM-CAE

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### ABSTRACT

Integrated CAD/CAM/CAE is a methodology of taking advantage of all three CAD, CAM and CAE systems and tools simultaneously by integrated approach. In spite of the widespread use of CAD systems for design and CAE systems for analysis, the two processes are not well integrated because CAD and CAE models inherently use different types of geometric models and there currently exists no generic, unified model that allow both design and analysis information to be specified and shared. The paper discusses the integrated CAD/CAM/CAE approach in product development process, the benefits it offers and the techniques involved in the approach. It also briefs a case study on application of integrated system and Rapid Prototyping in development of humanoid biped robot. The report tells that the use of integrated CAD/CAM/CAE system reduces the product development time and cost.

**Keywords:** Integration, CAD/CAM/CAE, Modeling, Rapid prototyping.

