

## The Study and Application of OGSA Grid Based on Digital Manufacturing

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### ABSTRACT

In the paper, the mode that based on the research of digital manufacturing was brought forward. It takes advantage of the characteristic distance resources co-share of high capability of the Open Grid Services Architecture (OGSA). The component structure and achievement of function of the Digital manufacturing grid are emphatic introduced. The mode, inheriting the characteristics from OGSA and digital manufacturing, achieve the co-share of design, manufacture, information, technology resources to great degree, and overcome the obstacle from the distance of space gap among different corporations.

**Keywords:** Digital Manufacturing; Grid technology; OGSA; Manufacturing Grid; Virtual enterprise