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Biogas is competitive, viable, and generally a sustainable energy resource due to abundant supply of cheap feedstocks and availability of a wide range of biogas applications in heating, power generation, fuel, and raw materials for further processing and production of sustainable chemicals including hydrogen, and carbon dioxide and biofuels.

knowledge's storage and processing. 2.2 Large-scale data storage and processing Distributed and parallel processing would contribute to processing efficiency of large-scale data. Cloud computing is a promising approach which supports distributed and parallel processing. It is firstly put forward by Eric Schmidt in the

The aim of this paper is contributing to a highly accurate NC code based energy consumption and power curve prediction for CNC machine tool aggregates with variable power demand (x, y and z axis, spindle and tool change system) at CNC machine tool level rst, this contribution will help to derive low energy machining strategies with respect to geometry ...

Executing the process; Post-processing; 3D Model Design. The first step in the CNC machining process is creating a 3D digital replica of the part to be manufactured. In the CNC design step, a designer creates a model of the part using Computer-Aided Design (CAD) software. The 3D CAD model contains all the necessary information about the part ...

Abstract. With the emergence of the Industrial Internet of Things and Industry 4.0, industrial automation has grown as an important vertical in recent years. Smart manufacturing techniques are now becoming essential to keep up with the global industrial competition. Decreasing machine's downtime and increasing tool life are crucial factors in reducing ...

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