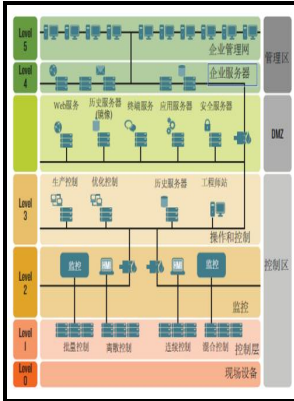# Off-line programming, verification and optimisation of industrial control systems

De Montfort University - CN101092031A

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Gyeongsang National University

Realize the simulation verification and offline program output of spraying, arc welding, laser processing, embossing, and other processes in manufacturing.

Processing configuration off

Optimization of mathematical programming models under uncertainty; model formulations; exact, bounding-and-approximation, and Monte Carlo sampling-based solution techniques that exploit special structures; applications; use of algebraic modeling language. Also can be in the work according to actual conditions again to working procedure make amendment getting back to for second step or the 3rd step, manual G code or the INFORMII code file revised. Computer based models have become an indispensable means for the planning, optimisation and operation of industrial manufacturing systems.

Control Engineering

It is short and sweet, very convenient that G code is used to the movement locus of the equipment of describing.

Off

Introduction to production and inventory models; basic factory dynamics; analysis of variability; push-and-pull production control; sequencing and dispatching. It is then closed on automatic mode after each controller is successfully tested. Only one of the following may be counted: Mechanical Engineering 337G, 388H, Operations Research and Industrial Engineering 390R Topic 15.

Off

Subjects may include utility theory, probability as a statement of belief, risk preference, value of information and control, probability assessment, influence diagrams, risk sharing and scaling, and life-and-death decision making. Lagrangian duality theory and bundle methods for

nondifferentiable optimization.

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