

## Intelligent Industrial Systems Modeling Automation And Adaptive Behavior Premier Reference Source

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Moreover, there is need to design industrial systems with intelligence, autonomous decision making capabilities, and self-diagnosing properties. Intelligent Industrial Systems: Modeling, Automation and Adaptive Behavior analyzes current trends in industrial systems design, such

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as intelligent, industrial, and mobile robotics, complex electromechanical systems, fault diagnosis and avoidance of critical conditions, optimization, and adaptive behavior.

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Introduction. Incorporating intelligence in industrial systems can help to increase productivity, cut-off production costs, and to improve working conditions and safety in industrial environments. This need has resulted in the rapid development of modeling and control methods for industrial systems and robots, of fault detection and isolation methods for the prevention of critical situations in industrial work-cells and production plants, of optimization methods aiming at a more profitable ...

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~~Intelligent Industrial Systems | Home~~

Industrial automation is the core of intelligent manufacturing equipment. In the last few years, industrial automation is successfully implemented in intelligent manufacturing industries . During the operation of the industrial automation systems, faults inevitably occur in these intelligent equipment, which may cause serious economic losses.

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Worker safety is an important reason for automating an industrial operation. Automated systems often remove workers from the workplace, thus safeguarding them against the hazards of the factory environment.

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