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Lights Control by Fuzzy Logic *Fuzzy Logic Control Of Crane*

Lee, Fuzzy-logic-based control of payloads subjected to double-pendulum motion in overhead cranes, *Automation in Construction*, 65, 133-143, 2016. M. H. Fatehi, M. Eghtesad and R.

Modelling and Fuzzy Logic Control of an Underactuated ...

Fuzzy logic controllers are proposed for gantry crane system. Fuzzy logic control is designed based on information of the skilful operators.

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Design and implementation of fuzzy logic controller for ...

Control of Rotary Cranes Using Fuzzy Logic and Time-Delayed Position Feedback Control
Amjed A. Al-Mousa (ABSTRACT) Rotary Cranes (Tower Cranes) are common industrial structures that are used in building construction, factories, and harbors.

Control of Rotary Cranes Using Fuzzy Logic and Time ...

Fuzzy logic rather extends the way automated control techniques are used in practical

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applications by adding supervisory control capabilities.

Fuzzy Application Library/Technical Applications/Practical ...

A Fuzzy Controller is used for the antisway tracking control of overhead cranes.

Position Control of Overhead Cranes Using fuzzy Controller ...

The fuzzy logic-based discrete-time crane control scheme for reduction of the residual vibration of a payload is proposed.

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Fuzzy crane control with sensorless payload deflection ...

As well, an anti-swing fuzzy logic control has been developed, simulated, and analyzed. Obtained control algorithm is compared with the existing anti-swing proportional-integral controller designed by the 3D crane manufacturer Inteco . 5-degree of freedom (5DOF) control schemes are designed, examined and compared with the various load masses. The topicality of the problem is due to the wide usage of gantry cranes in industry.

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Using Euler ...

A Fuzzy Logic Controller (FLC) has also been utilised pervasively in many crane control systems.

Control strategies for crane systems: A comprehensive ...

based adaptive fuzzy logic (HANNFL) control method was presented for flexible link carrying pendulum system which was assumed as a tower crane and capable to move in the horizontal plane.

(PDF) Modeling and control of scaled a tower

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crane system

The values of Angle and Distance are computed by the process simulation, while Power is the control variable either set manually or by the fuzzy logic controller. The ...

Introduction to C# and Fuzzy Logic - CodeProject

H.M. Omar and A.H. Nayfeh / Anti-swing control of gantry and tower cranes using fuzzy and time-delayed feedback⁷⁵ by designing two feedback controllers. The first is an anti-swing controller. It controls the swing damping by a proper feedback of the

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swing angle and its rate.

Anti-swing control of gantry and tower cranes using fuzzy ...

A fuzzy sliding mode control strategy for offshore container cranes is investigated in this study. The offshore operations of loading and unloading containers are performed between a mega container ship, called the mother ship, and a smaller ship, called the mobile harbor (MH), which is equipped with a container crane.

Fuzzy sliding mode control of an offshore

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container crane

Mathematical modeling of an overhead crane sho... Generalized Design of an Anti-swing Fuzzy Logic Controller for an Overhead Crane with Hoist - Mohamed B. Trabia, Jamil M. Renno, Kamal A.F. Moustafa, 2008

Generalized Design of an Anti-swing Fuzzy Logic Controller ...

The intelligent gantry crane system has been developed by adopting fuzzy logic controllers. The proposed intelligent gantry crane system contains two fuzzy logic controllers for controlling the both position

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and anti-swing motion of the payload. The both fuzzy logic controllers were designed based on the crane operator experiences.

Design and Implementation of Fuzzy Logic Controller for ...

Fuzzy Logic Control of a Flywheel Energy Storage System for DRTG Crane Application- Christopher Knight 2015 Anti-sway Control for Cranes- 2017-11-20 The book introduces anti-sway control approaches for double-pendulum overhead cranes, including control methods, theoretical analyses, simulation results and source codes of each control design.

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Several approaches in feedback control that have been implemented were nonlinear control, 2,3 sliding mode control, 4 -6 adaptive control, 7,8 energy-based control, 9 robust control 10,11 and fuzzy logic control. 12 On the other hand, with feedforward control, various strategies have been investigated for payload swing control of tower and ...

Payload swing control of a tower crane using a neural ...

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In this paper we present a new fuzzy logic controller for overhead crane operation. The fuzzy controller is designed based on knowledge of an ex-pert crane operator, and does not require any parameter estimation. It mimics the operator behavior by using the same crane-load system states that are realized by the operator.

Autonomous Overhead Crane System Using a Fuzzy Logic ...

Fuzzy logic has been successfully applied in various fields. However, as fuzzy controllers increase in size and complexity, the number

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of control rules increases exponentially and real-time behavior becomes more difficult. This thesis introduces an any-time fuzzy controller. Much work has been done

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