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MIC Journal – Modeling, Identification and Control

Modeling, Identification and Control of Robots. - W Khalil (Ecole Centrale de Nantes, France) and E Dombre (Robotics Dept LIRMM, UMR CNRS, France). Hermes Sci Publ, Paris. Distributed in USA by Taylor & Francis Publ, New York NY. 2002. 480 pp. ISBN 1-56032-983-1. $149.00.

Modeling, Identification and Control of Robots | Applied ...

Abstract. We study the interactions between modeling, identification and control, in the situation where the only purpose of the modeling or identification is the design of a high performance controller. This leads us to suggest that the model building criterion should be determined by the control objective, leading to identification on the basis of closed loop data.

Modeling, Identification and Control | SpringerLink

The aim of MIC is to present a review of Norwegian research activities in the field of modeling, identification and control to the international scientific community. The articles published in MIC present the results of research carried out in Norway, or sponsored primarily by a Norwegian institution. Each article published in MIC has been refereed by one or more internationally recognized specialists within the field.

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Modeling, Identification, and Control of an Unmanned ...

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system's (represented by its model) performance. IJMIC has been set up to reflect the relevant generic studies in this area.

International Journal of Modelling, Identification and Control

Abstract In this paper, feedback controller design for the air-conditioning system is addressed through systematic modeling and identification. Particularly, the physical model of the system reveals the key parameter that dictates energy efficiency, and the identification procedure produces a low-order, linear model suitable for controller design.

Modeling, identification and control of air-conditioning ...

Modeling, Identification, and Control of Tendon-Based Actuation Systems. Abstract: In this paper, we deal with several aspects related to the control of tendon-based actuation systems for robotic devices. In particular, the problems that are considered in this paper are related to the modeling, identification, and control of tendons sliding on curved pathways, subject to friction and viscoelastic effects.

Modeling, Identification, and Control of Tendon-Based ...

Knowledge: After completing the course, the student shall have detailed knowledge about modeling, identification and Control of electrical machines, and in addition knowledge about the state-of-art within research in this field of research. The student shall have obtained the knowledge to develop own models and identification methods

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The various mathematical models for hysteresis such as Preisach, Krasnosel'skii–Pokrovskii (KP), Prandtl–Ishlinskii (PI), Maxwell-Slip, Bouc–Wen and Duhem are surveyed in terms of their applications in modeling, control and identification of dynamical systems. In the first step, the classical formalisms of the models are presented to the reader, and more broadly, the utilization of the classical models is considered for development of more comprehensive models and appropriate ...

A survey on hysteresis modeling, identification and control

Modeling, Identification & Control of Robots Wisama Khalil, Etienne Dombre No preview available - 2002. Common terms and phrases. actuator algorithm atan2 axes axis base inertial parameters calculate Chapter closed chain closed loop columns compute constraint equations control law control of robots control scheme coordinates corresponding ...

Modeling Identification and Control of Robots - Wisama ...

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(PDF) Modeling, Identification, and Control of a Discrete ...

Abstract. This paper considers a powerful approach to modeling, identification, and control of high-speed autonomous surface vehicles (ASVs) operating in the displacement, semi-displacement, and planing regions. The approach is successfully applied to an 8.45 m long ASV capable of speeds up to 18 m / s, resulting in a high-quality control-oriented model.

Modeling, Identification and Control of High-Speed ASVs ...

The paper contributes towards the modeling, identification, and control of model jet engines. We propose a nonlinear, second order model in order to capture the model jet engines governing dynamics. The model structure is identified by applying sparse identification of nonlinear dynamics, and then the parameters of the model are found via gray-box identification procedures. Once the model has ...