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Title

Sliding mode control for a class of uncertain dynamic systems with mismatched uncertainties

Yahaya M Sam, Johari HS Osman, Ruddin A Ghani

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Description

Traditional combat simulation is usually based on Lanchster models, a set of mathematical equations. They are very intuitive and therefore easy to apply, however, they have shown their inherent shortcomings, eg, come resolution and low credibility. From the viewpoint of complex system theory, war is one social phenomenon of organized behavior of mankind, and as is known to all, it is very complex. So we now need more effective models and methods for combat system simulation. In this paper, we, frit analysis several main issues ... Scholar articles

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## Sliding mode control for a class of uncertain dynamic systems with mismatched uncertainties

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RenLieng Fan, Xiribii Wang, Changli Yang existing in combat simulation: multi-reso modeling (MRM), behavior modeling

In this paper, we try to use modern sechnology of the artificial neural network which experienced a rapid development in the late BOX to analyze the law of dynamic change of the Chlorine ion in the waters of the Yangtzo river estuary. Then the mathematical medeling river estuary. Then the management invocating of the Calorine ion dendiry in the waters of the Yangtor river estuary is discussed. With the different controlling water quantly schemes after the completion of the construction of the reservoir in Three Gorge apward the Yangtas River, a BP neural network model is used for forecasting the density of Chlorine ion in the waters of the Yanguz tiver estuary. The results will be referred to related Shanghai department water supply corporation

MALII-4 Overview of Combot Complex System Simulation

Xuojan Guo Armond Force Engineering Institute Jingue Mang Haval Aeromantical Engineering Institute. Annoted Force Engineering Institute

Traditional combat simulation is usually based on Lanchster mulels, a set of mathematical equations. They are very intuitive and therefore easy to apply, however, they have shown their inherent shortcomings, e.g., course resolution and low credibility. From the viewpoint of complex system theory, war is one notial phenomenon of organized behavior of mankind, and as is known to all, it is very complex. So we now need more effective models and methods for combat system simulation. In this poper, we first analysis several main issues

modeling (MRM), behavior modeling, command and control simulation and cluster approache. Then we illustrate the core role of command, and control in combat complex system simulation, and provide the methods to resolve combat complex system simulation—
the "weapon-platform-based" nethods. In
the last, we introduce the project development
on Land Combat System Simulation.

MALII-5 Sliding Mode Control for a Class of Uncertain, Dynamic' Systems with Minustehed Uncertainties

Yuhaya M. Sam, Johari H.S. Osman, Ruddin A. Ghani Universiti Teknologi Molaysia

paper focused on the mal-integral aliding mode control for uncertain dynamic systems with mismach uncertainties. First, the switching surface condition for the sliding mode control is controlled. Then the control law is designed to the stiding surface and the system rethereafter. The proposed control law is able to minimize the effects of the trusmatched uncertainty upon the dynamic performance prescribed by the switching turface. A simulation study for a numerical example is given to illustrate the effectiveness of this control design.

MALII-6 Asymtotic Stabilizability Switching Control Strategy For Linear Switching System

Shumin Fei, Jie Shen, Oihong Chen

Start from the definition of stability and

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