Differential Games and Its Applications

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Message from the Guest Editors

The theme of this Special Issue is focused on differential games and the latest developments. The theory of differential games finds application in conflict problems which are treated through the use of differential equations. This problem lies between classical game theory, in which multiple players are involved, and controlled dynamic systems, in which differential equations describing the game are controlled by players. In fact, such games are among the most widespread, challenging, and important optimization problems facing mobile agents. There is a wide area of application for these games, ranging from simple traffic control in the rush hour of a large city to military strategy, such as missile guidance systems formulated by Rufus Isaacs, to surgery and management, and there are different kinds of hunting escape games, such as dynamic zero-sum games, instant games optimized for time, and so on. Within games where the evolution of strategies depends on continuous time, it is also necessary to remember differential games with incomplete information.

Special Issue

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Message from the Editor-in-Chief

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