

IBRAGIMOV GAFURJAN

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EXPERTISE

Differential Equations, Control Theory, Differential Games

Assoc. Prof. Dr. Gafurjan Ibragimov major research areas include linear pursuit and evasion differential games, linear discrete pursuit games, and simultaneous games. Major sponsors of Gafurjan Ibragimov's research include Research University Grant Scheme (RUGS) and Fundamental Research Grant Scheme (FRGS). In 1991, he received his PhD degree (Title: Optimal Pursuit in Some Differential Games) and in 2006, he received his DSc degree (Title: Differential Games of Many Persons with Different Constraints on Control Parameters). He has also been active in research. He has published more than 115 papers in reputed journals. He is also a fellow of Uzbekistan Mathematical Society, an associate researcher of the Institute for Mathematical Researches (INSPEM), UPM and an associate leading scientific researcher at the Institute of Mathematics, Uzbekistan. There are 6 PhD and 6 MSc graduated students under his main supervision.

Current Research Interest

- **Pursuit and Evasion Differential Games in Finite Dimensional Spaces**

Here we study linear pursuit-evasion differential games with integral constraints, differential games with phase constraints, multi person differential games, and evasion differential games.

- **Differential Games described by Infinite System of Differential Equations**

Control and differential game problems are also of increasing interest for systems described by partial differential equations. Such problems by using the decomposition method can be reduced to the ones described by infinite systems of ordinary differential equations.

- **Linear Discrete Pursuit Games**

Many real-life problems can be modeled as the linear pursuit games. Moreover, linear discrete pursuit games can be obtained if we discretize the linear differential games. Here, the main problem is to construct the strategy of the pursuer to complete the game.

- **Simultaneous Games**

In game theory, a simultaneous game is a game where each player chooses his action without knowledge of the actions chosen by other players.

- **Pursuit and Evasion Games on Graphs**

Pursuit and evasion games are studied on graphs.

LINK TO POSTGRADUATE FIELD OF STUDY:

Differential Equations, Control Theory, Differential games, Game theory

ADDITIONAL INFORMATION: