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Special Topic: Mean-Field Game and Control of Large Population Systems: From Theory to Practice

In the practice of system control theory, the optimization of large populations of agents is a fundamental topic with broad scientific and engineering applications. Initially proposed around 2007 by pioneering researchers from Canada and France, mean-field game theory has, over the last fifteen years, been extended and refined. These new approaches now encompass a wide range of problems and fields, including various game formulations, social optimization, and numerical methods, especially those incorporating learning techniques, as well as practical applications such as traffic control, financial systems, energy systems, and communication systems.

This special issue focuses on large-population systems, particularly mean-field game and mean-field control problems, to provide a timely overview of recent progress in this emerging field. We believe it will serve as a significant milestone for this growing academic discipline.

Topics of interest include, but not limited to, mean-field games, mean-field control, social optimization, networked multi-agent systems, high-dimensional network systems, large-population systems, and their applications to social and engineering challenges.

IMPORTANT DATES

Submission Deadline: Feb. 28, 2025

First Round of Review: Apr. 30, 2025

Final Acceptance Notification: July 15, 2025

Publication: Oct. 1, 2025

Please choose "Special Topic: Mean-Field Game and Control of Large Population Systems: From Theory to Practice"

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