DRAG: Deploying response Resources for MAS Agents using Game theory

Cheng-Kuang Wu ???

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Multi-agent systems applied in the event of a terrorist attack, network attack or other large-scale disaster can encounter scalability problems which generate a growing number of agents resulting in a failure to satisfy the requirements for emergency responses. This book proposes DRAG (Deploying Response MAS Agents using Game Theory) which is an integration model of noncooperative game and cooperative game, that is, to solve scalability problem and prioritize to allocate the response resources of MAS. First, the interactive actions between an external attack and a response agent are modeled as a non-cooperative game, after which the external threat value is derived from the Nash equilibrium. Second, the threat values of all response agents are utilized to compute each agent's Shapley value. Then an acceptable resources allocation of agents based on their expected marginal contribution creates a minimum set of resources deployment costs. In this book, five cases applied DRAG model to optimize MAS agent's resources for emergency responses after strong outside attacks.

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