

## Cooperation in Pursuit and Evasion Modeling

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### ABSTRACT:

Cooperation in pursuit and evasion modeling is difficult to observe and measure. In fact, most studies of pursuit and evasion are centered on individual performance. Using a recent presentation by Dr. Arney and Dr. Peterson as a framework, this study seeks to identify and quantify metrics for measuring the success of teams. Working with a Java platform created by Dr. Peterson, one could observe the benefits of teamwork over purely individual effort. It is possible to observe the behavior of a team, and, using a variety of algorithms, record and analyze data. In this presentation, I discuss the changes to the java platform, the overarching themes of success, and my plans for future work on the subject.

**KEYWORDS:** lower confidence bound, generalized pivot, non-central t distribution, bisection method

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