Analyzing Decision-making in Robot Soccer for Attacking Behaviors

by
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For the MSCS degree in Computer Science

Decision-making in Robotics soccer plays a fundamental role in the performance of a team's Software System. The University of South Florida's Robobulls SSL team implements behavior for the robots utilizing classical approaches such as using analytical geometry to path plan and determine if an action should be robot soccer. This thesis seeks to utilize these frameworks to add to the existing publicly available resources as well as analyze whether implementing trained Neural-Network models can improve the performance or quality of the existing Robobulls software system.

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Examining Committee