# Abstract

This study evaluates player performance in Major League Baseball (MLB) by accounting for multiple team-dependent factors when considering individual statistics. New metrics will be introduced, such as OPS-R (On-Base Plus Slugging – Runs Adjusted), which refines OPS (On-base Plus Slugging) by incorporating RSPTOB (Runs Scored per Time on Base). By creating this new metric, we hope to create a measure that accounts for team efficiency as well as individual performance. OPS-R will account not only for a player’s ability to reach base and hit for power, but also how effectively their team converts base runners into runs. OPS-R calculates RPR (Run percentage Ratio), which is a team level statistic derived from RSPTOB, then aggregating it to the team level. RPR quantifies a team’s efficiency in generating runs from times on base compared to the league average. RPR is then incorporated into OPS-R to normalize player performance relative to team context. Doing so provides a more accurate evaluation of offensive contribution and offers more in-depth insights into player valuation and trade decisions. The idea behind OPS-R is to identify undervalued players in inefficient offenses and overvalued players benefiting from high-efficiency lineups, thus making it a valuable tool for front offices and analysts.