ARE THE GEORGIA OFFICIAL SPELLING BEE RULES FAIR?

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We investigate the fairness of the Georgia Official Spelling Bee Rules. This is an important issue, since many students across the State of Georgia participate in such competitions. We perform the simulation optimization method and generate the Spelling Bee system with the Georgia Official Rules. Our simulation outputs show that the Georgia Official Spelling Bee Rules are not fair and are biased due to the random order of seat allocation. We also derive some theoretical results which are consistent with our simulation results.