

# A New Solution to the Random Assignment Problem

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A random assignment is *ordinally efficient* if it is not stochastically dominated with respect to individual preferences over sure objects. Ordinal efficiency implies (is implied by) *ex post* (*ex ante*) efficiency. A simple algorithm characterizes ordinally efficient assignments: our solution, probabilistic serial (PS), is a central element within their set. Random priority (RP) orders agents from the uniform distribution, then lets them choose successively their best remaining object. RP is *ex post*, but not always ordinally, efficient. PS is envy-free, RP is not; RP is strategy-proof, PS is not. Ordinal efficiency, Strategyproofness, and equal treatment of equals are incompatible. *Journal of Economic Literature* Classification Numbers: C78, D61, D63. © 2001 Academic Press.

*Key Words:* random assignment; ordinal; *ex post* or *ex ante* efficiency; strategyproofness; envy-free.

## 1. TWO PREVIOUS SOLUTIONS TO THE RANDOM ASSIGNMENT PROBLEM

The *assignment problem* is the allocation problem where  $n$  objects are to be allocated among  $n$  agents, and each agent is to receive exactly one object. Examples include the assignment of jobs to workers, of rooms to housemates, of time slots to users of a common machine, and so on (see Roth and Sotomayor [14], Abdulkadiroglu and Sönmez [1]).

Using a lottery is one of the oldest tricks (going further back than the *Bible*; see Hofstee [9]) to restore fairness in such problems.<sup>1</sup> Suppose we

<sup>1</sup> Another standard trick is to use monetary compensations; see Leonard [12], Demange [5]. Here we assume that money is not available.



# A New Solution To The Random Assignment Problem

**Huangqi Zhang**



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**A New Solution To The Random Assignment Problem**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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