

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.¹ Suppose we

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

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**Xujin Chen, Nikolai Gravin, Martin
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Approximation, Randomization, and Combinatorial Optimization. Algorithms and Techniques Leslie Ann Goldberg, Klaus Jansen, R. Ravi, José D.P. Rolim, 2011-08-05 This book constitutes the joint refereed proceedings of the 14th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems APPROX 2011 and the 15th International Workshop on Randomization and Computation RANDOM 2011 held in Princeton New Jersey USA in August 2011 The volume presents 29 revised full papers of the APPROX 2011 workshop selected from 66 submissions and 29 revised full papers of the RANDOM 2011 workshop selected from 64 submissions They were carefully reviewed and selected for inclusion in the book In addition two abstracts of invited talks are included APPROX focuses on algorithmic and complexity issues surrounding the development of efficient approximate solutions to computationally difficult problems RANDOM is concerned with applications of randomness to computational and combinatorial problems

Algorithmic Decision Theory Toby Walsh, 2015-08-27 This book constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Algorithmic Decision Theory ADT 2015 held in September 2015 in Lexington USA The 32 full papers presented were carefully selected from 76 submissions The papers are organized in topical sections such as preferences manipulation learning and other issues utility and decision theory argumentation bribery and control social choice allocation and other problems doctoral consortium

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Methods in Psychology Robert C. Calfee,1985

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Table of Contents A New Solution To The Random Assignment Problem

1. Understanding the eBook A New Solution To The Random Assignment Problem
 - The Rise of Digital Reading A New Solution To The Random Assignment Problem
 - Advantages of eBooks Over Traditional Books
2. Identifying A New Solution To The Random Assignment Problem
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an A New Solution To The Random Assignment Problem
 - User-Friendly Interface
4. Exploring eBook Recommendations from A New Solution To The Random Assignment Problem
 - Personalized Recommendations
 - A New Solution To The Random Assignment Problem User Reviews and Ratings
 - A New Solution To The Random Assignment Problem and Bestseller Lists

5. Accessing A New Solution To The Random Assignment Problem Free and Paid eBooks
 - A New Solution To The Random Assignment Problem Public Domain eBooks
 - A New Solution To The Random Assignment Problem eBook Subscription Services
 - A New Solution To The Random Assignment Problem Budget-Friendly Options
6. Navigating A New Solution To The Random Assignment Problem eBook Formats
 - ePub, PDF, MOBI, and More
 - A New Solution To The Random Assignment Problem Compatibility with Devices
 - A New Solution To The Random Assignment Problem Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A New Solution To The Random Assignment Problem
 - Highlighting and Note-Taking A New Solution To The Random Assignment Problem
 - Interactive Elements A New Solution To The Random Assignment Problem
8. Staying Engaged with A New Solution To The Random Assignment Problem
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A New Solution To The Random Assignment Problem
9. Balancing eBooks and Physical Books A New Solution To The Random Assignment Problem
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A New Solution To The Random Assignment Problem
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine A New Solution To The Random Assignment Problem
 - Setting Reading Goals A New Solution To The Random Assignment Problem
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of A New Solution To The Random Assignment Problem
 - Fact-Checking eBook Content of A New Solution To The Random Assignment Problem
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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