

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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Somchai Prasitjutrakul



A New Solution To The Random Assignment Problem:

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 *Handbook of Social Economics SET: 1A, 1B* Jess Benhabib, Alberto Bisin, Matthew O. Jackson, 2011 How can economists define and measure social preferences and interactions Through the use of new economic data and tools our contributors survey an array of social interactions and decisions that typify homo economicus Identifying economic strains in activities such as learning group formation discrimination and the creation of peer dynamics they demonstrate how they tease out social preferences from the influences of culture familial beliefs religion and other forces Advances our understanding about quantifying social interactions and the effects of culture Summarizes research on theoretical and applied economic analyses of social preferences Explores the recent willingness among economists to consider new arguments in the utility function **Handbook of Social Economics**, 2010-11-26 How can economists define social preferences and interactions Culture familial beliefs religion and other sources contain the origins of social preferences Those preferences the desire for social status for instance or the disinclination to receive financial support often accompany predictable economic outcomes Through the use of new economic data and tools our contributors survey an array of social interactions and decisions that typify homo economicus Their work brings order to the sometimes conflicting claims that countries environments beliefs and other influences make on our economic decisions Describes recent scholarship on social choice and introduces new evidence about social preferences Advances our understanding about quantifying social interactions and the effects of culture Summarizes research on theoretical and applied economic analyses of social preferences **The New Palgrave Dictionary of Economics**, 2016-05-18 The award winning The New Palgrave

Dictionary of Economics 2nd edition is now available as a dynamic online resource Consisting of over 1 900 articles written by leading figures in the field including Nobel prize winners this is the definitive scholarly reference work for a new generation of economists Regularly updated This product is a subscription based product **Web and Internet Economics** Xujin Chen,Nikolai Gravin,Martin Hoefer,Ruta Mehta,2020-12-05 This book constitutes the proceedings of the 16th International Conference on Web and Internet Economics WINE 2020 held in Beijing China in December 2020 The 31 full papers presented together with 11 abstracts were carefully reviewed and selected from 136 submissions The issues in theoretical computer science artificial intelligence operations research are of particular importance in the Web and the Internet that enable the interaction of large and diverse populations The Conference on Web and Internet Economics WINE is an interdisciplinary forum for the exchange of ideas and results on incentives and computation arising from these various fields **Journal of Economic Theory** Karl Shell,Jess Benhabib,2004 **Newsletter** New Zealand Mathematical Society,2004 **Journal of Economic Theory** Pennsylvania,2003 2004 IEEE International Symposium on Information Theory : Proceedings : Chicago Downtown Marriott, Chicago, Illinois, USA, June 27-July 2, 2004 ,2004 Algorithms for High Level Synthesis Miodrag M. Potkonjak,1991 **Proceedings of the ...ACM Symposium on Theory of Computing** ,2002 Integer Programming and Related Areas Universität Bonn. Institut für Ökonometrie und Operations Research,1982 *Proceedings of the 34th Annual ACM Symposium on the Theory of Computing* John H. Reif,2002 **Mathematical Reviews** ,2002 **2003 IEEE 58th Vehicular Technology Conference** IEEE Vehicular Technology Society Staff,2004 **Performance-driven Chip Floorplanning and Global Routing** Somchai Prasitjutrakul,1991 Integer Programming and Related Areas Rabe v. Randow,1990-07-10 This fifth volume of a comprehensive bibliography lists all available publications on integer programming and combinatorial optimization from autumn 1984 to the end of 1987 The volume compiles and classifies 5867 new publications by 4680 authors under 50 different subject headings The listing covers theory and methods of general integer programming and applications of integer programming This classified bibliography will be an invaluable reference source for mathematicians working in optimization researchers working on integer programming techniques and industrial operations research departments The four earlier volumes were published as Lecture Notes in Economics and Mathematical Systems Vols 128 160 197 and 243 IBM Journal of Research and Development ,1993 *INFORMS Conference Program* Institute for Operations Research and the Management Sciences. National Meeting,1996

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