



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

/ Thesis & Dissertation (/jspui/handle/123456789/1)

/ Master of Science (/jspui/handle/123456789/2)

/ MS-09 (/jspui/handle/123456789/393)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/662>

Title: Social Choice and Max-Plus Algebra

Authors: Roy, Debdatta Sinha (/jspui/browse?type=author&value=Roy%2C+Debdatta+Sinha)

Keywords: Mathematics
Algebra
Social Choice
Social Choice Theory
Max-Plus Algebra

Issue Date: 26-Jun-2015

Publisher: IISER-M

Abstract: This THESIS is divided into three parts. Part I deals with Social Choice and the negative results given by Gibbard-Satterthwaite theorem in the deterministic case and Gibbard's theorem in the randomized case and tries to fix it by weakening the notion of First order stochastic dominance (FOSD) strategy-proofness. Part II makes us familiar with Max-Plus Algebra starting with a motivating example of its application and then focusing on the theory of solving of linear equations. Part III tries to bring together Social Choice and Max-Plus Algebra by modelling a situation in Social Choice by linear equations in Max-Plus Algebra.


URI: <http://hdl.handle.net/123456789/662> (<http://hdl.handle.net/123456789/662>)

Appears in MS-09 (/jspui/handle/123456789/393)
Collections:

Files in This Item:

File	Description	Size	Format	
MS-09042.pdf (/jspui/bitstream/123456789/662/1/MS-09042.pdf)		1.04 MB	Adobe PDF	View/Open (/jspui/bitstream/123456789/662/1/MS-09042.pdf)

Show full item record (</jspui/handle/123456789/662?mode=full>)

 (</jspui/handle/123456789/662/statistics>)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.