



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali / Thesis & Dissertation / Master of Science / MS-15

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/1535>

Title:	Interacting Urn Processes with Multiple Drawings
Authors:	Yogesh
Keywords:	Urn Models Interacting two-colour Urns with Multiple Drawings Interacting d-colour Urns with Multiple Drawings Graph based models
Issue Date:	May-2020
Publisher:	IISER Mohali
Abstract:	We study urn models with two specific characteristics: interaction between urns is present, and multiple drawing of balls takes place. For these diverse kind of models, we try to prove synchronization results using Stochastic Approximation Theory, calculate rates of convergence, prove fluctuation results, and use computer simulations to plot the limiting distribution of the fractions of balls of different colours in the urn. We draw upon past work that has been done on similar kinds of models, and apply those techniques and ideas to our more generalized models. We also look at models involving more than two colours, and those involving urns imagined to have been placed on the vertices of a graph, each urn interacting with its immediate neighbors.
URI:	http://hdl.handle.net/123456789/1535
Appears in Collections:	MS-15

Files in This Item:

File	Size	Format	
MS15127.pdf	1.29 MB	Adobe PDF	View/Open

Show full item record



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

Theme by



Customized & Implemented by - Jivesna Tech