
BICM Research Seminar 20

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Paper details	
Title	Optimal Exchange Rate Dynamics for a Small-Open Economy: A Machine Learning Approach to the Case of Bangladesh
Author	Safaeduzzaman Khan Assistant Professor Bangladesh Institute of Capital Market
Presentation details	
Presenter researcher	Safaeduzzaman Khan
Date	January 24, 2023 (Tuesday)
Time	11:00 AM - 12:30 PM
Venue	BICM Multipurpose Hall
Expected Participants	Faculty Members of BICM & Invited Guests
Discussants	Dr. Monzur Hossain Research Director Bangladesh Institute of Development Studies
	Dr. Shubhasish Barua Associate Professor Department of Development Studies University of Dhaka

About the Presenter

Safaeduzzaman Khan received BSS and MSS in Economics from the University of Dhaka. He has been serving as an Assistant Professor in Bangladesh Institute of Capital Market (BICM) since 2020. His research interest lies primarily in the field of open-economy macroeconomics.

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The paper abstract is given on next page. If you have any questions regarding the seminar or you wish to present a paper or invite a guest researcher, please do not hesitate to communicate S. M. Kalbin Salema, Lecturer, BICM at kalbin@bicm.ac.bd.

Optimal Exchange Rate Dynamics for a Small-Open Economy: A Machine Learning Approach to the Case of Bangladesh

Safaeduzzaman Khan¹

Abstract

We provide explicit computational bounds applicable for the estimation of optimal exchange rate which would maximize trade balance under standard macroeconomic assumptions of a small-open economy. As a natural experiment, the scheme of asymmetric J-curve has been utilised to implement an array of machine learning techniques to conduct ex-ante/ex-post analysis. We observe that 'continuous target scheme models' offer the best performance in this venture given the panel of empirical configuration of exchange rate in case of Bangladesh.

¹ Assistant Professor, Bangladesh Institute of Capital Market