SYSMO I : a systemic stress model for the colombian financial system

Borradores de Economia
Número:
1028
DOI:
http://doi.org/10.32468/be.1028
Publicado:
Viernes, 10 Noviembre 2017
Clasificación JEL:
G01, E58, E44, G20, G17
Palabras clave:
Pruebas psicológicas, Modelos VAR, Riesgo crediticio, Contagio financiero
Descargar documento

Lo más reciente

El desarrollo económico de Colombia desde finales de la Guerra de los Mil Días hasta la Gran Depresión
Juliana Jaramillo-Echeverri, María Teresa Ramírez-Giraldo
Experimentando con los LLM para el pronóstico de la inflación en Colombia
Aarón Levi Garavito-Acosta, Wilmer Martinez-Rivera, Juan J. Ospina-Tejeiro, Edgar Caicedo-García
Evaluando el seguro de desempleo en una economía en desarrollo: evidencia para Colombia
Leonardo Fabio Morales, Diego Astorga-Rojas, Nicolas Guida-Johnson
Otras Publicaciones

This paper presents the first version of SYSMO, the analytical framework employed by the Financial Stability Department at the Banco de la República (the Central Bank of Colombia) to perform its biannual, top-down, stress testing exercise. The framework comprises: (i) a module to produce internally consistent macroeconomic scenarios; (ii) a set of satellite risk models that capture the materialization of credit and market risks in times of stress, and (iii) a bank model that simulates the endogenous response of banks to an adverse scenario. The framework also incorporates endogenous contagion and funding risks, key regulatory constraints (solvency and liquidity), and the feedback effects between the endogenous response of banks and the macroeconomic scenario. The use of SYSMO is illustrated with the example of the stress testing exercise published in the Banco de la República's Financial Stability Report of the second semester of 2017.