

# **Identification of systemically important financial institutions in Bolivia through self-organizing maps. Macro and microprudential approaches**

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## **Abstract**

Identification of Systemically Important Financial Institutions (SIFI) provides important information for supervision and regulation of the financial system, because it allows focusing on monitoring and preventing crises or how they should be faced. However, it has become a difficult task due to the complex characteristics of financial markets.

The objective of this study is to identify, classify and correlate the SIFI in Bolivia, through self-organizing maps, according to the criteria of macro and micro approaches: size, connectivity, substitutability and number of customers.

The main results of this paper show that a commercial bank and a clearing house are SIFIs according to information of 2013. Some regulatory guidelines are established as a result.

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