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On Mitra's sufficient condition for topological chaos: Seventeen years later

Liuchun Deng, M. Ali Khan

PII: S0165-1765(18)30005-3
DOI: https://doi.org/10.1016/j.econlet.2018.01.005
Reference: ECOLET 7905

To appear in: *Economics Letters*

Received date : 15 November 2017
Revised date : 16 December 2017
Accepted date : 5 January 2018

Please cite this article as: Deng L., Ali Khan M., On Mitra's sufficient condition for topological chaos: Seventeen years later. *Economics Letters* (2018), https://doi.org/10.1016/j.econlet.2018.01.005

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*Highlights (for review)

Highlights:

- An easy and useful extension of Mitra's 2001 theorem on Li-Yorke chaos.
- An alternative proof of Mitra's 2001 result on the Matsuyama model as a corollary of a 1982 theorem of Li-Misiurewicz-Pianigiani-Yorke (LMPY).
- An application of the extended Mitra theorem to offer a generalization of a 2005 theorem of Khan-Mitra on the RSS model.
- An application of the LMPY theorem to offer a generalization of a recent result of Deng-Khan, and *a fortiori* of Mitra's result, on the Matsuyama model.
- Open questions and methodological concerns: the substantive difference between kinked and smooth maps, and the substitutability of "numerical proofs" for (formal and traditional) mathematical proofs as a result of high-speed computing.

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