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Impact of the Great East Japan **Earthquake on Hotel Industry in** Pacific Tohoku Prefectures: From spatio-temporal dependence of hotel availability

Aki-Hiro Sato

(Submitted on 2 Apr 2012)

This paper investigates the impact of the Great Japan Earthquake (and subsequent tsunami turmoil) on socio-economic activities by using data on hotel opportunities collected from an electronic hotel booking service. A method to estimate both primary and secondary regional effects of a natural disaster on human behavior is proposed. It is confirmed that temporal variation in the regional share of available hotels before and after a natural disaster may be an indicator to measure the socio-economic impact at each district.

Comments: 8 pages, 3 figures, to appear in Post-Proceedings of

Econophysics2011 in the Progress of Theoretical Physics

Supplement

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