

## **Application of Computable General Equilibrium Model to Economic Impact Assessment of Natural Disaster: the Case of the 2011 Great East Japan Earthquake**

Topic: Disaster Analysis II

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In order to carry out the economic impact assessment of natural disasters, the specific conditions of economy during and after the disasters have to be taken into account. These specific conditions include production capacity loss, vulnerability of supply chain networks depending on industry types, and rationing scheme for the scarce and idle resources. In this study, the disaster specific spatial general equilibrium (SCGE) model is proposed based on the empirical approach to select the model assumptions and parameter values, which are consistent with past earthquake disasters in Japan, especially with the case of 2011 Great East Japan Earthquake and Tsunami.