

## Syllabus 2017 Human-Social Information Sciences

### Spatial Economics

Japanese

#### Basic information

held this year:	yes
instructor(s)	Prof. Dao-Zhi Zeng
room	GSIS-412
schedule	The latter period (Tuesday) 8:50-10:20
begins on:	10/03

#### Objectives and outline

Spatial economics clarifies regional industrial agglomeration and international trade by incorporating spatial factors into traditional economics. This lecture mainly focuses on New Economic Geography and New Trade Theory, which exhibit a remarkable development in recent years. Specifically, we introduce new trade theory of international economics and core-periphery models of regional economics, and then show their applications. To understand this course, you are expected to have some basic knowledge of microeconomics.

Some specific aims

1. To be able to establish a general equilibrium model.
2. To understand some approaches to social science.

Slides are in English. The lectures will be in English if some students do not understand Japanese.

#### Class plan

- 1 Introduction
- 2 Background of New Trade Theory
- 3 Dixit-Stiglitz model
- 4 One-factor model: the HME and welfare
- 5,6 Two-factor model: capital mobility and industry location
- 7 New Economic Geography and equilibrium stability
- 8 Core-Periphery model
- 9 Quasi-linear model
- 10 Re-dispersion by labor costs
- 11 Re-dispersion by urban costs
- 12 Multiple sectors
- 13 Vertical linkage and location
- 14 Application to related fields
- 15 For further study

#### Evaluation

Students are evaluated on the level of class participation (30%), assignments (30%) and the final report (40%).

#### Textbook(s)

Textbook  
 Zeng, D.-Z. and Takatsuka, H, 2016. Spatial Economics, Toyokeizai Press (In press, Japanese).

Reference

Fujita, M., Krugman P and Venables A., The Spatial Economy, MIT Press, 1999.  
 Sato, Y., Tabuchi, T. and Yamamoto, K., 2011. Spatial Economics. Yuhikaku. (Japanese)  
 A lot of papers in Journal of Economic Geography, Journal of Urban Economics, Regional Science and Urban Economics, Journal of Regional Science, etc.

#### Web site

Lecture slides are available at  
<http://www.se.is.tohoku.ac.jp/~zeng/index.html>

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■ **Office hours**

Wednesday 16:30–18:00 or by appointment.

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■ **Other information**

1. Slides are used to make a preparation of lectures. 2. Homeworks are used to review the lectures.

 [Top](#)