

The 8th International Seminar on Experiments and Surveys
in Economics and Related Social Sciences

--Economic incentives and their impacts on human brain and behaviors--

18th March 2008 9:30 - 11:30

Venue: 204, West 9 building 2nd Floor, Ookayama, Tokyo Institute of Technology

Evolutionary and propagation dynamics on complex networks

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Intensive researches on the nature of real-world networks began about a decade ago, boosted by increasingly powerful computers and application of analysis tools of physics, computer science, and other areas, to the understanding of networks. In this talk, I first review the basic concepts and recent developments of complex networks, evolutionary game dynamics on networks, and propagation dynamics on networks. Then I explain some of my main results in recent years on evolutionary and propagation dynamics on networks. Particularly, I present how the heterogeneity in the number of contacts that each individual has affects these dynamics. The heterogeneity makes the propagation of information and diseases on networks more progressive. The heterogeneity also makes the notion of evolutionary games on networks somewhat ambiguous.

Moderator: Professor Noboru Hidano (Tokyo Institute of Technology)

Organizers: Professors Takehiko Yamato, Hiroyuki Akama and Noboru Hidano

第8回国際経済理工学セミナー「経済理工学における実験調査の現状と課題」

2008年 3月18日、9:30 - 11:30

東京工業大学 西9号館2階社会工学セミナー室204

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