Game Theory: Interactive Reasoning and Choice

3 / 4,5 ECTS

Lecturer

Prof. Dr. Christian W. Bach
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Curriculum Vitae

Christian W. Bach is a game theorist with main research focus on epistemic foundations for solution concepts and on agreeing to disagree type results.
He currently serves as assistant professor at the University of Liverpool Management School and as research fellow at the EPICENTER of Maastricht University.
Besides, Christian Bach is also active in economic advisory for the firm Swiss Economics.

Research specializations

Competition Policy
Epistemic Game Theory
Game Theory
Industrial Organization
Interactive Epistemology

Selected publications


Course description

Games are interactive decision situations and in this module we analyze them from a reasoning perspective and thus enter the beautiful realm of the field called epistemic game theory. Different patterns of thinking are modelled and linked to some procedure that identifies the corresponding choices. Entertaining examples and stories from everyday life are used to illustrate the formal concepts.

This module is offered both for 3 ECTS as well as for 4.5. ECTS credit points.

The topics covered are as follows:

On successful completion of the course, the students should be able to:

• Common Belief in Rationality
• Simple Belief Hierarchies
• Incomplete Information
• Common Belief in Future Rationality
• Common Strong Belief in Rationality

Basic-Literature for preparation


Contact

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