Agent-based Computational Economics – Spring 2017

Tuesday 12:15 – 13:45 W8-107 starting on April 25, 2017

Attention: there will be no course on June 27 and on July 11

Instructor: Prof. Herbert Dawid, (phone 106 4843, email hdawid@wiwi.uni-bielefeld.de)

Content:

This course provides an introduction to agent-based modelling in Economics for Master and Doctoral students. It covers methodological and conceptual foundations of this approach, key aspects of designing and analyzing agent-based economic models and selected examples from the literature of agent-based analyses in different domains of economics. The focus of the course is on modeling and economic aspects rather than on technical issues related to model implementation and analysis. Students are expected to have a solid background in Economics. Programming experience is a plus but not required to follow the course.

Exam:

Oral exams will be organized at the end of the semester, exact dates will be determined individually.

Overview over Topics and Literature

i) Motivation, Foundations


ii) Model Design


iii) Calibration, Validation and Empirical Grounding


iv) Market- and Industry-Level Analysis:


v) Agent-based Macroeconomics and Policy Analysis


