ASCOPE 2020

First International Conference on Agent-based and Stock-Flow Consistent Models for COmPlex Economies

ascope2020.lip6.fr

11th -12th June 2020 – Paris, France

Call for papers

Background

The 2008 global financial crisis and the subsequent economic stagnation – characterized by low rates of growth, massive destruction of productive capacities and mass unemployment – revealed a fundamental crisis of the economic theories that failed to predict it and to provide convincing explanations of their causes. The emergence of old and new risks, including a new global financial crisis and a worldwide ecological crisis, highlight the need for alternative theoretical and empirical methodologies able to cope with the inherent complexity of economic and social systems, for instance in order to explain and predict extreme events such as natural catastrophes, financial crisis and persistent economic recessions.

At the crossroads of economics, social sciences and computer science (namely multi-agent systems), the agent-based methodology (ABM hereafter) is an important and promising candidate for a theoretical and methodological revolution. Social sciences are observing an increasing interest towards this methodology, which is creating strong linkages between complementary fields of knowledge, including economic, sociological, psychological and natural sciences. Within the academic community of economists, the stock flow consistent (SFC hereafter) methodology is also leading a successful competition to standard paradigms when it comes to explain and predict economic, financial and ecological collapses. We observe in the recent years a rising communication between these two approaches, leading to the emergence of a new agent-based, stock flow consistent (AB-SFC) methodological framework. The AB and SFC methodologies, which benefited initially of a large disappointment towards standard methodologies and a growing demand for alternatives, are now facing a new challenge: to explain and provide policy guidelines to cope with the major contemporary concerns - namely, the risk of a secular economic stagnation and a worldwide ecological crisis - with credibility and scientific rigor.

Aims and scope

ASCOPE2020 is the result of the cooperation between the two networks in ABM and SFC Modelling : MACME- Modelling and Analysis of Complex Monetary Economies[1], and MAGECO- Modélisation à base d'AGents pour l'ECOnomie[2]. It aims to be a fundamental moment in this crucial phase, by allowing researchers from all over the world to discuss their research findings and creating linkages and networks within the AB and/or SFC community. Theoretical approaches, as well as technical and methodological contributions are highly welcome.

[1] https://cepn.univ-paris13.fr/2018-12-14-14decembre-workshop-macme-5/
[2] http://mageco.lip6.fr/

In particular, we invite researchers working on Agent-based and/or Stock-flow consistent models in various fields – including economics, sociology, psychology and computer sciences – to submit contributions on the following topics:

1. **AB and/or SFC models for ecological transition, sustainable development, climate change**
2. **Path-dependency, hysteresis and secular stagnation**
3. **AB and/or SFC methodology: design, calibration and validation**
4. Macroeconomic AB and/or SFC models: Emergence of financially driven business fluctuations and crises, dynamics of debt, growth and technical change, multi-country models, etc.
5. AB and/or SFC models of markets: labor, finance, transport, goods and services, housing, etc.
6. Artificial intelligence and automation
7. Institutional design and change
8. Dynamics of economic and financial networks
9. Bounded rationality, learning, formation of expectations

We particularly encourage submissions on topics 1-3.

The keynote speakers are:

Herbert Dawid, University of Bielefeld, Germany
Laurence Ball, Johns Hopkins University, US
Peter Victor, York University, Canada

Submission Guidelines

Please note that only papers using the AB and/or the SFC methodology will be reviewed.

Please submit an **extended abstract** (1 page minimum, 2 pages max excluding references) in pdf format to ascope2020@gmail.com.

The title of your message should read "Submission to ASCOPE 2020 / [n]", where n is the number of the key topic of your paper (amongst the list of 9 topics listed above)

Important Dates

Abstract Submission	**December 31th , 2019**
Notification of Acceptance	February 15th, 2020
Registration	March 1st - April 30th, 2020:
Conference Dates	June 11th and 12th:

Local Organizing Committee

Jean-Daniel KANT	Sorbonne University Sciences, LIP6
Dany LANG	Université Paris 13, CEPN
Federico BASSI	Université Paris 13, CEPN
Gérard BALLOT	Université Paris 2- Assas
Paul HADJI-LAZARO	Université Paris 13, CEPN
Thuan HUYNH	Sorbonne University Sciences, LIP6 & Pôle Emploi
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