

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

Second 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 Economies¹, and MAGECO- Modélisation à base d'AGents pour l'ECONomie². 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	February 28th , 2020
Notification of Acceptance	March 31 th , 2020
Conference Dates	June 11 th and 12 th , 2020

Local Organizing Committee

Jean-Daniel KANT	Sorbonne University Sciences, LIP6
Dany LANG	Université Paris 13, CEPN
Federico BASSI	Université Paris 13, CEPN
G�rard BALLOT	Universit� Paris 2- Assas
Paul HADJI-LAZARO	Universit� Paris 13, CEPN
Thuan HUYNH	Sorbonne University Sciences, LIP6 & P�le Emploi
Nicolas DE BUFALA	Sorbonne University Sciences, LIP6 & P�le Emploi
Pascal SEPPECHER	Universit� Paris 13, CEPN

Scientific Committee

Tiziana ASSENZA	Toulouse School of Economics, France
Laurence BALL	Johns Hopkins Univ., USA
G�rard BALLOT	Pantheon-Assas Univ., France
Federico BASSI	Paris 13 Univ., France
Pierre BOUDES	Univ. Paris 13, France
Alessandro CAIANI	Pavia Univ., Italy
Alberto CARDACI	Goethe Univ. of Frankfurt, Germany
Laura CARVALHO	Sao Paulo Univ., Brazil
Eugenio CAVERZASI	Univ. of Insubria, Italy
Herbert DAWID	Bielefeld Univ., Germany
Domenico DELLI GATTI	Univ. Cattolica del Sacro Cuore di Milano, Italy
Gunnar ELIASSON	Royal Institute of technology of Stockholm, Sweden
Etienne ESPAGNE	Agence Fran�aise de D�veloppement, France
Mauro GALLEGATI	Univ. delle Marche, Italy
Antoine GODIN	Agence Fran�aise de D�veloppement, France
Jakob GRAZZINI	Pavia Univ., Italy
Mattia GUERINI	Univ. Cote D'Azur, France
Andrew JACKSON	Univ. of Surrey, United Kingdom
Fredj JAWADI	Univ. Lille 1, France
Jean-Daniel KANT	Sorbonne Univ. Sciences, France

Alan KIRMAN	Aix-Marseille Univ., France
Francesco LAMPERTI	Scuola Superiore Sant'Anna di Pisa, Italy and European Institute on Economics and the Environment
Dany LANG	Paris 13 Univ., France
Marc LAVOIE	Ottawa Univ., Canada
Edwin LE HÉRON	SciencesPo Bordeaux, France
André LORENTZ	Université de Strasbourg, France
Florent MAC ISAAC	Agence Française de Développement, France
Antoine MANDEL	Univ. Paris 1, France
Mauro NAPOLETANO	OFCE, Sciences Po, France
Maria NIKOLAIDI	Greenwich Univ., United Kingdom
Marco PASSARELLA	Leeds Univ., United Kingdom
Italo PEDROSA	Univ. of Rio de Janeiro, Brazil
Andrea ROVENTINI	Scuola Superiore Sant'Anna di Pisa, Italy
Alberto RUSSO	Univ. Jaume I, Spain
Pascal SEPPECHER	Paris 13 Univ., France
Mark SETTERFIELD	New School For Social Research, USA
Tania TREIBICH	Maastricht Univ., Netherlands
Peter VICTOR	York Univ., Canada
Murat YILDIZOGLU	Bordeaux Univ., France
Gennaro ZEZZA	Cassino Univ., Italy