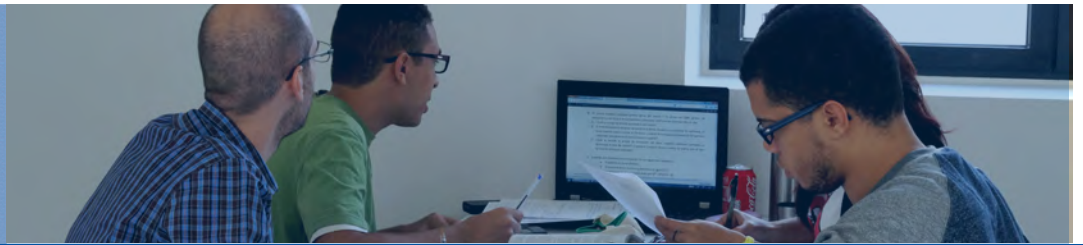




Universidad  
de Alcalá



## COMPLEX SYSTEMS IN SOCIAL SCIENCES

Code  
657

**SCCS**

### RESEARCH AREA

Social Sciences

### COORDINATOR

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### KEY WORDS

Economy, Complexity,  
Sustainability, Technology

### AIM

- Sector público y privado

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GRUPO DE INVESTIGACIÓN  
SISTEMAS COMPLEJOS EN  
CIENCIAS SOCIALES

**SCCS**



## ABOUT US

Recently social sciences, especially economics, have incorporated in its methodology aspects related to complexity. The extraordinary increase in the current availability of statistical information as well as in computing power, allows a change in the top-down orientation, that has traditionally characterized social sciences research, by a bottom-up approach, rather less limited when representing the real behavior of economic agents and their relationships. In particular, the use of methodologies such as agent-based simulation, along with network analysis and processing of large databases, makes it possible to explain the aggregate behavior of society and its economy as an emergent phenomena arising from the individual actions of its members. The group's goal is to apply the techniques of complexity analysis in the field of economics and other social sciences, with particular attention to spatial, technological and environmental issues.

## RESEARCH LINES

- Agent-based modelling
- Environmental sustainability and circular economy
- Technological change
- Social networks
- Transport systems

## OFFERED SERVICES

- Modelling and evaluation of public and private decision systems through complexity analysis

## MARKETABLE RESULTS

