

SEMINARIO
Departamentos de Física Teórica I y II
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TITULO: Agent-based modelling: Applications and challenges

LUGAR: FACULTAD DE CIENCIAS FÍSICAS UCM

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ABSTRACT:

Nowadays, there are tools that facilitate programming, executing and monitoring of agent-based simulations. They have been successfully applied in a number of cases, gaining the interest of the social scientists as a complementary method for their work. However, most of the agent-based models developed so far are quite simple, which is enough to validate some particular assumptions of the social theories, but it has to be shown how agent based modelling can scale to work with real complex systems made of complex systems themselves. A way to cope with this is to integrate knowledge and expertise from the multi-agent systems community, which is often disregarded, as well as from other disciplines of artificial intelligence and software engineering.