



## **VI Escuela de Verano en Sistemas Complejos**

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Abstract

### **Simulation and complex systems - Its roles and potentials**

"Computer simulation grew and diversified from its roots in numerical methods automated on the earliest computers during the post-WWII period. Today, it is more and more taking on a role that is sometimes referred to as "in silico experimentation". Computers to allow the animation of systems that are fashioned as causal imitations of real system and this allows a scientific and technical strategy that did not exist before and that has only begun to be realized. In particular, it has allowed the scientific exploration of what is commonly called Complex Systems. In this talk I will briefly trace the history of simulation, relate it to other general methods for obtaining knowledge, and provide and discuss a categorization of simulation techniques based on their use."