



The CEU Summer University announces the course

COMPLEX SYSTEMS AND SOCIAL SIMULATIONS

JULY 13 - 24, 2009, BUDAPEST, HUNGARY

The course is co-sponsored by AITIA International

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BRIEF COURSE DESCRIPTION

The summer course is aimed at providing a state-of-the-art cutting-edge scientific and research-oriented training for junior faculty, young researchers, postdoctoral fellows, MA and Ph.D. students, and professionals from European and overseas universities and research institutes on complex systems and social simulations.

The term Complex Systems (CSS) denotes an interdisciplinary research methodology currently successful in the social sciences and elsewhere. CS research originated from physics and nonlinear systems some decades ago but its models have soon permeated such distant fields as economy, political science or more recently sociology. As implied by the name, a CS is essentially a system of many complicated interactions. Complex Systems methodology has developed sophisticated yet well understood tools to cope with this challenge. In social systems the essence of CS is the characterization of the distributed dynamics of how the interaction of many actors and variables leads to predictable phenomena, which often involve hierarchy, emergence, dynamic structures and large scale transitions.

Each day in the course focuses on one tool of this encompassing methodology. CS methods include various mathematical models (nonlinear systems, networks, statistical approaches), computer simulations (e.g. systems dynamics, agent-based modeling). CS simulations are highly computation intensive and pose problems of supercomputing and parallelization.

The CSSS course offers lectures, tutorials and discussions on the whole spectrum of the above. Lectures are from leading experts, specifically focusing on CS concepts, modeling and (social) simulation, followed by discussion.



Central European University's summer school (CEU SUN), established in 1996, is a program in English for graduate students, junior or post-doctoral researchers, teachers and professionals. It offers high-level, research-oriented, interdisciplinary academic courses as well as workshops on policy issues for professional development, taught by internationally renowned scholars and policy experts (including CEU faculty). Application from all over the world is encouraged. Financial aid is available.

CEU Summer University

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Apply online: <https://online.ceu.hu/osun>

Skype: ceu-sun

Application deadline: **extended to March 15, 2009**

For further academic information on the course and on eligibility criteria and funding options please visit the course web site at

<http://www.sun.ceu.hu/complex>

Non-discrimination policy statement

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