

## Call for Papers (Regular, Special Sessions, Workshop)

### Aim:

Social sciences are moving in a direction in which their various constituent parts are sharing a common set of foundations, languages and platforms, which makes the social sciences be unprecedentedly behavioral, algorithmic and computational. At the turn of the 21st century, a group of computer scientists and social scientists worked together to initiate new series of conferences and to establish new academic organizations to give momentum to this emerging integration now known as computational social sciences.

Among the largest of such conferences, WCSS is sponsored by the three regional scientific associations on social simulations: ESSA (the European Social Simulation Association), PAAA (Pacific Asian Association for Agent-based Approach in Social Systems Sciences) and CSSSA (Computational Social Science Society of America). It aims at bringing together researchers and practitioners from diverse fields on social simulations, whether theoretical, experimental, practical, or technical, to present the latest results of various researches and to discuss emergent phenomena and modeling issues of a variety of research subjects related to social simulations, which will provide further understanding on social complex problems.

### Keynote Speakers:

**Kumaraswamy (Vela) Velupillai** (University of Trento, Italy)

**Thomas Lux** (Universität Kiel, Germany)

**William Griffin** (Arizona State University, USA)

**Wei Zhang** ( TianJin University, China)

### Special Sessions:

[The Mathematical Foundations of Computational Social Science](#) (Organizer: **David L. Sallach**)

[Applications of Social Simulation in Politics and Public Spheres](#) (Organizers: **Jie-Shin Lin & Frank C.S.**

**Liu**)

[Applications of System Dynamics in Social Systems Research](#) (Organizer: **Jian-Hung Chen**)

Behavioral and Cognitive Bases for Agent-Based Models (Organizers: **Nobuyuki Hanaki & Takashi Yamada**)

[Social Networks and Computing](#) (Organizers: **Hsing Luh & Yuo-Hsien Shiau**)

[Social Simulations on Social Networks and Social Capital](#) (Organizer: **Ray-May Hsung**)

### Workshop:

[Social Media and Simulation in Social Informatics](#) (Organizer: **Isamu Okada**)

### Important Dates:

**April 1, 2012:** Special session, workshop, and tutorial proposal deadline

**May 15, 2012:** Paper submission deadline (*extended*)

**June 30, 2012:** Paper acceptance notification (*extended*)

**July 20, 2012:** Early registration deadline (*extended*)

**July, 24, 2012:** Camera-ready copies of accepted papers due

**September 4-7, 2012:** Conference Dates

**Regular Paper Topics:**

The **topics** include, but are not limited to:

<p><b>I. Tools and methods:</b></p> <ul style="list-style-type: none"> <li>○ Programming computational frameworks</li> <li>○ Simulation experiment software</li> <li>○ Role playing games and social simulation</li> <li>○ Social Simulation and Laboratory Experiments</li> <li>○ Socially inspired software applications (peer-to-peer, distributed trust etc.)</li> <li>○ Model replication and validation</li> <li>○ Advanced computing technologies (e.g. the grid) and social simulation</li> </ul> <p><b>II. Theory:</b></p> <ul style="list-style-type: none"> <li>○ Social Processes of Science</li> <li>○ Methods, Algorithms, and Data</li> </ul>	<p><b>III. Applications of Agent-based Modeling:</b></p> <ul style="list-style-type: none"> <li>○ Social Norms</li> <li>○ Social Complexity</li> <li>○ Policy issues</li> <li>○ Emergence of social structures and norms</li> <li>○ Trust and norm dynamics, reputation</li> <li>○ Social conflict and cooperation</li> <li>○ Market dynamics and consumer behaviour</li> <li>○ Integrated social/physical modeling for environmental policy</li> <li>○ Resource management and environmental practices</li> <li>○ Social networks and their dynamics</li> <li>○ Information and opinion dynamics</li> <li>○ Computational Organization Theory</li> <li>○ Group decisions and collective behaviors</li> <li>○ Emergence and evolution of institutions</li> <li>○ Innovation diffusion</li> <li>○ Societal transitions</li> <li>○ Industry and economy issues</li> </ul>
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**Organizations & Sponsors:****Conference Chair:**

Shu-Heng Chen, National Chengchi University, Taiwan

**Local Organizing Committee Chair:**

Ryuichi Yamamoto, National Chengchi University, Taiwan

Chung-Ching Tai, Tunghai University, Taiwan

**Program Committee Co-Chairs:**

Takao Terano, Tokyo Institute of Technology, Japan (PAAA)

Ed MacKerrow, Los Alamos National Lab, USA (CSSS)

Andreas Ernst, University of Kassel, Germany (ESSA)

**Co-Sponsors:**

National Science Council, Taiwan

R.O.C. Ministry of Economic Affairs, Taiwan MICE International Meetings Hosting Project

National Chengchi University, Office of Research and Development

**Post-Proceedings:**

A series of WCSS proceedings have been and will be published by Springer as a consequence of the successful WCSS2006, WCSS2008, and WCSS2010. Outstanding submissions presented in WCSS2012 will also be selected to be published as book chapters in the WCSS proceedings.