Workshop on Socio-Economics Inspiring Self-Managed Systems and Concepts (SEISMYC-2010)

Organizing Committee

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Description:

Today's complex systems are required to be able to adapt themselves (their internal structure or behavior), as well as to participate autonomously in larger, self-organizing systems. As a result they should be able to manage themselves without any human intervention – they should be self-managed (including the self-monitoring, self-healing, self-configuration, etc. — self-*).

Analogously, in our world, enterprises, public institutions or other socio-economic systems manage themselves autonomously. They make decisions on how to adapt their structure and behavior, and how to organize with other entities in the environment, thus creating more complex, self-organizing systems. They are “aware” of their own identity on multiple levels of individuals, teams, organizations and networks, they recognize their capabilities and the status of their current parameters (e.g., financial data or inventory). and make decisions on how to act in a particular situation.

The goal of this workshop is to address the challenges of the development of Self-Managing Systems by making entities in such a system able to manage and adapt themselves inspired by how organizations manage and adapt themselves in a socio-economic system.

Indicative list of topics of interest:

- Identification of concepts, principles, phenomena and key properties in the management of companies and other socio-economic systems that are the most likely to contribute to the development of self-managing systems;
- Architectures, models, algorithms, languages and control techniques for self-* systems inspired by economics, management science, organizational theory, etc;
- Methods for transferring socio-economic concepts and principles to technical systems (knowledge-oriented approaches, trans-disciplinary research approaches, design science approaches, etc.);
- Modeling organization and dynamics of socio-economic systems with perspective on self-organization, self-adaptation, and global planning, e.g., adaptive organizational models;
- Knowledge monitoring and reasoning mechanisms for distributed systems based on socio-economic systems;
- Pervasive supervision, governance, identity, trust and reputation mechanisms for self-* systems using socio-economic principles;
- Utility functions in the context of self-managing systems;
- Technical implementation and integration of socio-economic principles in self-managing systems, e.g., based on particular existing or new technologies as symbolic models, ontologies, reasoning, policies, etc.;and
- Integration of self-managing systems in society.

Important Dates:

July 12, 2010:	Deadline for submission of contributions to workshops
August 6, 2010:	Notification of acceptance
September 27th, 2010:	Workshop

Format:

Papers should not be longer than 4 pages in standard IEEE two-column format,