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ICCCI 2009 CALL FOR PAPERS

The 1st International Conference on Computational Collective Intelligence — Semantic Web, Social Networks & Multiagent Systems

(<http://www.isccci.org/iccci-09/>) (iccci2009@isccci.org)

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(subject to confirmation)

5-7 October, 2009 Wrocław (Poland)

Organized in cooperation with: Wrocław University of Technology (Poland), Swinburne University of Technology (Australia) and National Taiwan University of Science and Technology (Taiwan)

Computational Collective Intelligence (CCI) is most often understood as an AI sub-field dealing with soft computing methods which enable making group decisions or processing knowledge among autonomous units acting in distributed environments. Web-based systems, social networks and multi-agent systems very often need these tools for working out consistent knowledge states, resolving conflicts and making decisions. The aim of this conference is to provide an internationally respected forum for scientific research in the computer-based methods of collective intelligence and their applications in (but not limited to) such fields as semantic web, social networks and multi-agent systems.

Scope of ICCCI 2009: Methodological, theoretical and practical aspects of *computational collective intelligence* such as group decision making, collective action coordination, knowledge integration, understood as the form of intelligence that emerges from the collaboration and competition of many individuals (artificial and/or natural). The application of multiple computational intelligence technologies such as fuzzy systems, evolutionary computation, neural systems, consensus theory, etc., to support human and other collective intelligence and creation of new forms of CCI in natural and/or artificial systems. Three subfields of application of computational intelligence technologies to support various forms of collective intelligence are of special attention but are not the only ones: semantic web (as an advanced tool increasing collective intelligence), social network analysis (as the field targeted to the emergence of new forms of CCI), and multiagent systems (as a computational and modeling paradigm especially tailored to capture the nature of CCI emergence in populations of autonomous individuals).

Topics of interest:

We welcome all submissions in the subjects of CCI related (but not limited) to the following topics.

SEMANTIC WEB: semantic annotation of web data resources; Web Services (service description, discovery, composition); ontology management (mediation and reconciliation, creation, evaluation, merging, alignment, evolution, linking); automatic metadata generation; (semi-) automatic ontology creation; semantic web inference schemes; reasoning in the semantic web; knowledge portals; information discovery and retrieval in semantic web; etc.

SOCIAL NETWORKS: computational technologies in social networks creation and support; advanced groupware and social networks; models for social network emergence and growth; ontology development in social networks; advanced analysis for social networks dynamics; social networks and semantic communication.

MULTIAGENT SYSTEMS: cooperative distributed problem solving. Task and resource allocation. Mechanism design, auctions, and game theory. Modeling other agents and self. Multi-agent planning. Negotiation protocols. Multi-agent learning. Conflict resolution. Trust and reputation management. Privacy, safety and security. Scalability, robustness and dependability. Social and organizational structures. Verification and validation. Novel computing paradigms (autonomic, grid, P2P, ubiquitous computing). Brokering and matchmaking. Agent-oriented software engineering, including implementation languages and frameworks. Mobile agents. Performance, scalability, robustness, and dependability. Verification and validation. E-business agents. Pervasive computing. Privacy, safety, and security.

Authors are invited to submit their papers, written in English, of up to 12 single spaced pages, presenting the results of original research or innovative practical applications relevant to the conference. Practical experiences with state-of-the-art in CCI methodologies are also acceptable when they reflect lessons of unique value to the conference attendees. **All paper submissions will be done electronically, as indicated in the instructions on the conference web site. Paper submission is required by 15 Mar. 2009. All papers must provide a key word list including one or more of the topics like those listed above.** All papers will be peer reviewed. Notification of the results of the review process will be made by **15 May 2009**, and final copies of papers for inclusion to the conference proceedings will be due by **15 June 2009**. The conference proceedings will be published in a bound volume by **Springer-Verlag** in their *Lecture Notes in Artificial Intelligence* series. Referees will be asked to nominate papers for a Best Paper award to be announced at the conference. All personally presented papers, but particularly those nominated for the Best Paper competition, will be automatically considered for publication in the extended versions in several special issues for ISI, SCI journals.

General Chair of ICCCI-2009

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