



Call for Papers

The AAMAS2010 Workshop on Coordination, Organization, Institutions and Norms (COIN)

Toronto, {10th | 11th} May 2010

Aims and Scope

From “the internet of things” and virtual worlds to the “smarterplanet”, through grid, cloud and stream computing, the world is becoming increasingly instrumented and inter-connected. Managing the resultant scale and complexity requires intelligence; in particular an intelligence that is manifested by individual strategies or collective behaviour. Furthermore, system architects have to consider:

- the inter-operation of heterogeneously designed, developed or discovered components;
- inter-connection which cross legal, temporal, or organizational boundaries;
- the absence of global objects or centralised controllers;
- the possibility that components will not comply with the given specifications; and
- embedding in an environment which is likely to change, with possible impact on individual and collective objectives.

The convergence of the requirement for intelligence with these operational constraints demands:

- coordination: the collective ability of heterogeneous and autonomous components to arrange or synchronise the performance of specified actions in sequential or temporal order;
- organization: a formal structure supporting or producing intentional forms of coordination;
- institution: an organization where (inter alia) the performance of designated actions by empowered agents produces conventional outcomes; and
- norms: standards or patterns of behaviour in an institution established by decree, agreement, emergence, and so on.

The automation and distribution of intelligence is the subject of study in autonomous agents and multi-agent systems; the automation and distribution of intelligence for

coordination, organization, institutions and norms is the specialised interest of COIN@AAMAS2010.

Workshop Goals

The goal of the workshop is to bring together researchers in autonomous agents and multi-agent systems working on the scientific and technological aspects of organizational theory, electronic institutions and computational economies from an organizational or institutional perspective. We seek to attract high-quality papers addressing all mathematical, logical and computational perspectives of, and modelling, animation and simulation techniques for, these types of multi-agent systems. Through various information and opinion exchange mechanisms before, during and after the workshop, we hope to generate new ideas, consolidate and develop an (already) active community, highlight future challenges and opportunities, and lead/define (at least part of) the future research agenda.

Topics of Interest

Topics of particular interest for COIN@AAMAS2010 will include:

- COIN for internet of things, 3-D Internet, green computing, and smarterplanet;
- logics, languages and tools for specifying coordination and norms, implementing or simulating organizations and institutions;
- formal lifecycle models: formation, maintenance, and dissolution of organizations and institutions;
- autonomic institutions, self-organization, and general self-* properties;
- law of electronic institutions: regulatory compliance, penalty and sanctions, dispute resolution and conflict prevention;
- agent environments: physical and institutional 'resources' for physical capability and institutional power;
- formal methods for specifying coordination and organizational structures; models for verification, validation and visualisation;
- non-normative behaviour, error-recovery, and reliable computing with unreliable components;
- agent societies and communities, social networks, electronic institutions and virtual organizations;
- frameworks and protocols for organised and organisational adaptation;
- institutional mechanisms for governance of common pool resources;
- discovery, openness and inter-operation in organizations and institutions;
- analysis of issues in the emergence, evaluation (as fit-for-purpose), compliance to and evolution of norms;
- mixed human-agent coordination and institutions in embedded systems and virtual worlds.

Venue

The workshop will be part of the AAMAS2010 (Autonomous Agents and Multi-Agent Systems) workshop programme, and will take place at the Sheraton Centre Toronto Hotel in downtown Toronto, Canada. Full details are available at <http://www.cse.yorku.ca/AAMAS2010/>

Proceedings

Preliminary proceedings will be available at the workshop. As with previous COIN workshops, revised and extended versions of the papers of both the two 2010 workshops (there will be a subsequent event in the Autumn) will be published in a single Springer LNCS volume. Those revised versions must take into account the discussion held during the workshop, hence, only those papers that are presented during the workshop will be considered for inclusion in the post-proceedings volume.

Important Dates

Submission of contributions to workshops:	Extended to FEBRUARY, 9, 2010
Workshop paper acceptance notification:	MARCH 2, 2010
Revised accepted paper submission:	MARCH 12, 2010
COIN@AAMAS2010 WORKSHOP:	MAY 10 11, 2010

Instructions of Authors

Although the post-proceedings will be published in Springer LNCS, the preliminary proceedings will follow a different format, namely IFAAMAS style. Submissions to COIN@AAMAS 2010 should be a maximum of 8 pages. If using **Latex**, please use [this style file](#) and see [this example](#) of how it is used. For **Microsoft Word** users, a [template](#) is also available. Please note that the submissions should be formatted for American letter paper size, and that your submission must be without page numbers.

The length of each paper including figures and references may not exceed 8 pages in this format. All papers must be written in English and submitted in PDF format. Submission of a paper should be regarded as an undertaking that, should the paper be accepted, at least one of the authors will attend the workshop to present the work.

For submission of papers, please use:

<http://www.easychair.org/conferences/?conf=coinaamas2010>

Organisation

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