

**The 2009 International Symposium on Collaborative Technologies and Systems
(CTS 2009)**

**May 18-22, 2009
The Westin Baltimore Washington International Airport Hotel
Baltimore, Maryland, USA**

CALL FOR PAPERS

**Workshop on Role-Based Collaboration
(RBC 2009)**

Submission Deadline: January 3, 2009

Workshop Theme:

Role-Based Collaboration is an emerging methodology to facilitate an organizational structure, provide orderly system behaviour, and consolidate system security for both human and non-human entities that collaborate and coordinate their activities with or within systems. Role-Based Collaboration Sessions (Workshops) have been organized for 10 times since its inaugural session in 2003 in Washington D.C. The sessions are becoming a regular event organized by the Technical Committee on Distributed Intelligent Systems at the IEEE International Conference on Systems, Man and Cybernetics.

The concept of role has been adapted from diverse fields including behavioural science, management, sociology, and psychology. Distributed system architectures have utilized roles to anthropomorphize software agents and systems so they can integrate and interact more seamlessly with their human counterparts. By providing role conceptualizations we can improve complex system understanding and management by providing the end user a modelled environment they are more accustomed, resembling, objects and activities they are exposed to daily like authority and organizational structures, responsibilities, functions and interactions between peers and management.

As in the human world where roles are used everyday, ambiguities and conflicts occur, thus necessitating clear role specifications, definitions and conflict resolution mechanisms to provide proper and efficient collaboration. These same issues arise in multi-agent and distributed intelligent systems, even more so when humans are included, and hence require related effective software collaboration algorithms, techniques, and tools for the implementation of a well organized system.

The workshop will present techniques, methodologies, and architectures focusing on issues inherent to implementing Role-Based Collaboration for specific environments. Collaborative Systems mentioned here include Computer-Supported Cooperative Work (CSCW), Groupware, GSS (Group Support Systems), CMC (Computer Mediated Communication), Social Computing Systems, Workflow Systems, Distributed Intelligent Systems, Multi-agent systems, and Collaborative Games.

Topics of Interest:

Solicited topics should address roles and include, but are not limited to:

Roles in General

- Fundamental concepts of roles
- Role specification, expression, presentation and management

Software Engineering and programming

- Roles as models
- Roles as services
- Roles as programming components

- Role relationship
- Role transfer
- Frameworks for role-based systems
- Applications of role-based approaches

Management

- Roles in organizations and management
- Role-based coordination
- Role-based organization
- Role-based learning
- Role-based process management
- Role-based personal Information Management
- Roles in emergency management systems

Intelligent Systems

- Roles in multi-agent systems
- Role-based interaction
- Role-based learning and reasoning
- Role-based autonomic computing
- Role-based game design

- Role mining
- Role-based software development
- Role-based analysis
- Role-based architecture and design
- Role-based programming
- Role-based testing
- Role-based trusted systems
- Software development as role-based collaboration
- Visualization of role-based collaboration

CSCW and HCI

- Human-factors related to roles
- Role-based user interface design
- Role-based conflict resolution
- Role-based information sharing
- Role-based view sharing
- Roles in social computing systems
- Evaluation of role-based collaboration

Important Dates:

- **January 3, 2008:** *Deadline for submission of papers*
- **February 3, 2009:** *Notification of acceptance*
- **March 3, 2009:** *Submission of final camera-ready papers and registration*

Submission of Papers:

Electronic submissions are encouraged and should be sent directly to roles@nipissingu.ca or haibinz.zhu@gmail.com. Paper reception will be acknowledged by e-mail within 2 days.

The format should be compliant with and follows the CTS 2009 format (instructions will be available at <http://cisedu.us/cis/cts/09/main/callForPapers.jsp>). Paper drafts submitted for review should not exceed 10 pages. Some papers can be accepted as short papers, with a total length reduced to 5 pages. If accepted, the final manuscript must follow the CTS 2009 format that is to be made available on the conference Web site. The format is similar to IEEE conference formats.

Submissions should include the title, authors name, affiliation, e-mail address, fax number and postal address. In case of multiple authors, an indication of which author is responsible for correspondence should also be included.

All submitted papers and posters will be rigorously reviewed by the technical program committee members and the reviewers they invite. Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Papers submitted to RBC must be original work, not submitted simultaneously to any other venue.

Submission implies the willingness of at least one of the authors to register and present the paper, once accepted. All accepted papers are required to be presented and will be included in the conference proceedings.

If you have questions regarding workshop paper submission or the workshop content, please contact the workshop organizer.

Workshop Organizer and Committee:

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Program Committee (Confirmed):

Gail-Joon Ahn	Arizona State University, USA
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Henri Frederico Eberspacher	Pontifical Catholic University of Parana, Brazil
Luca Ferrari	Independent Researcher, Italy
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Yu Zhang	Trinity University, USA
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For information or questions about the full Symposium's program, tutorials, exhibits, demos, panel and special sessions organization, please consult the conference web site at URL: <http://cisedu.us/cis/cts/09/main/callForPapers.jsp> or contact the symposium co-chairs: Bill McQuay at AFRL/IFSD, WPAFB (William.McQuay@wpafb.af.mil) or Waleed W. Smari at the Dept. of Electrical and Computer Engineering, University of Dayton (Waleed.Smari@notes.udayton.edu).