# 1<sup>st</sup> Workshop on
# Ontologies Meeting Workflow for Enhancing Collaborative Process Management

## ONTOFLOW'11

In conjunction with DEXA 2011 (www.dexa.org)

**IRIT, Paul Sabatier University**
**Toulouse, France**
**August 29, 2011**

## SCOPE

Workflows are in the mainstream for supporting the management of collaborative business processes with the aim to enhance productivity through managing a sequence of work activities and the invocation of appropriate human and/or IT resources.

Despite the undisputable benefits they provide, workflows are often perceived to be overly rigid. Their focus on the predefined sequence of tasks to be executed makes them hard to cope with the dynamic and uncertain nature of evolving business environments. In order to overcome these drawbacks, it is necessary to equip workflows with an intelligent mechanism to increase their abilities to adapt and personalize their execution in such contexts.

Ontologies are a good candidate to bring flexibility to workflows, by taking into account the intensive knowledge required to control the execution of business processes. Ontologies can facilitate the personalized construction of workflow and guide their management in contingency cases, thus allowing them to deviate from a prescribed static definition.

Ontologies have also become an increasingly popular paradigm for supporting knowledge management. They can be used to accurately define common concepts to share mutual understanding of the structure of domain , as well as to enhance interoperability of collaborative processes.

However, as the number of developed ontologies increases, the need for methods to integrate or align the separate ontologies becomes essential in order to reach a consensus. Therefore, workflows can be used to facilitate not only the conception of ontologies, but also the establishment of semantic correspondences among them.

Accordingly, the educated meeting between both of these paradigms is proving to be very prolific and promising approach, whether it is for enhancing the management of workflows or knowledge based systems. It's within this scope that the meeting for this workshop has positioned itself to bring together researchers and practitioners to share research results, advancements and practical related experience in this area.

## TOPICS OF INTEREST

Topics of interest include, but are not limited to :
- Ontology-driven workflow management architecture
- Workflow supporting collaborative, interactive ontology development
- Ontology guiding collaborative business processes
- Ontologies supporting workflow monitoring, debugging, and failure handling
- Intelligent mechanisms to increase workflows adaptability
- Ontologies supporting workflow personalization
- Workflow, ontology and Model-Driven Architecture
- Workflows to support dynamic and uncertain environment
- Coupling ontologies and workflow to support interoperability
- Ontology-aware workflow systems
- Workflow supporting scalability and ontology alignment, mapping and merging
- Supporting ontology management tasks using workflow system
- Ontolgies workflow mapping, optimization, and scheduling
- Ontologies guided workflow cooperation and collaboration
- Ontology meeting workflow applications in healthcare, ecologic, crisis, supply-chain, e-government and e-learning :  (activity Monitoring, home healthcare process, workflow-guided medical ontologies, modeling and simulation of crisis processes,...)

## PAPER SUBMISSION DETAILES

Authors are invited to submit original, unpublished research and application papers that are not being considered in other forums. Manuscripts will be limited to a maximum of (5) two-column pages (IEEE Proceeding style) including figures and references. Please follow the IEEE Conference Publishing Service (CPS) guidelines to prepare your papers. Please submit your papers using ConfDriver Conference Management System (open from January 2011).

Authors of accepted papers are requested to sign the IEEE copyright form. The guidelines for authors which can be found at IEEE Conference Publishing Services - Proceedings Author Forms.

Electronic submission of manuscripts (in PDF, postscript, or word format) is required. For any questions please contact Dr. Abdel-Rahman Tawil (a.tawil@uel.ac.uk) or Dr. Elyes Lamine (elyes.lamine@univ-jfc.fr).  At least one author of each accepted paper is required to attend the conference and present the paper.

Papers accepted for presentation will be published by IEEE Computer Society Press as proceedings of the DEXA 2011 workshops.

## PUBLICATION

Accepted OntoFlow papers will be published in the DEXA Workshops Proceedings 2011 by IEEE Press.

## IMPORTANT DATES

- **Submission deadline:** ~~March, 31st 2011,~~ **April, 22th 2011,**
- **Notification of acceptance: May, 9th 2011,**
- **Camera ready deadline: May, 23th 2011.**

## ORGANISERS

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## WORKSHOP CHAIRS

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