



# Workshop on Configuration

August 28 - 29, Riva del Garda, Italy

Affiliated with the 17th European Conference on Artificial Intelligence (ECAI 2006)

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## Overview

The 2006 Configuration Workshop continues the series of eight successful Configuration Workshops started at the AAAI'96 Fall Symposium and continued on IJCAI, AAAI, and ECAI since 1999.

The main goal of the workshop is to promote high-quality research in all technical areas related to configuration and to bring together researchers and practitioners from industry and academia. The workshop is of interest for both researchers working in the various fields of applicable AI technologies and industry representatives interested in the relationship between configuration technology and the business problem behind configuration and mass customization.

## Areas of Interest

- **Configuration problems and models**  
Configuration problems typology. Knowledge representation & acquisition. Fuzzy & incomplete knowledge. Knowledge base verification, validation & diagnosis. Standardization of catalog exchange formats. Configuration problems including discrete/continuous/mixed constraints. Product & process configuration. Service configuration. Product design & configuration.
- **Reasoning methods**  
Constraint Satisfaction Problems and extensions. Preference based reasoning. Description logics, Rules, Case-based reasoning. SAT-Solving, Local search, Genetic algorithms, Neural networks. Problem decomposition. Optimization. Multi-criteria optimization. Symmetry breaking. Cooperative configuration processes. Re-configuration of existing systems. Explanations. Distributed Problem Solving. Benchmark proposals. (Knowledge-based) recommendation.
- **Interactivity & e-business**  
Personalization. Ontology. Intelligent man machine interaction. Machine learning. Client/Server architecture. Configuration server. Configuration Web service. Distributed configuration. Configuration Process modeling.
- **Integration into the business process**  
Product Data Management. CAD. Pricer. ERP. Product Configuration and CRM Interfaces. Interaction with Product Data Management systems. Process configuration.
- **Applications & tools**  
Application reports. Case studies. Designing and Configuration Tools. Real world challenges. Test environments for configuration knowledge bases.

We hope to attract a balance of innovative papers on theoretical issues, practical applications—preferably applying a well defined theoretical model—and thorough case studies. We also solicit papers on new configuration problem instances.

## Submission

Workshop participation will be by invitation only and will be limited to 40 participants. If you wish to participate, submit either a full paper of no more than 6 pages (or 6000 words), or a position statement, short paper, or problem instance (at most 3 pages or 3000 words). Short papers may address an important problem for further research or describe a practical problem or an interesting lesson learned. In addition, we solicit proposals for short demonstrations (at most 3 pages with demonstrations taking at most 15 minutes). See the Workshop's web page (<http://fmv.jku.at/ecai-config-ws-2006>) for details on the submission procedure.

We will publish short versions (1000-2000 words) of selected workshop papers in a special feature of the Jan./Feb. 2007 issue of "IEEE Intelligent Systems". Contributions with a survey character have a better chance of being accepted. We may ask authors of journal submissions dealing with the same topic to write a joint article.

## Important Dates

- Paper submission deadline: April 15th, 2006
- Notification of acceptance: May 10th, 2006
- Final papers due: May 24th, 2006
- Configuration workshop: August 28th-29th, 2006